



Georgia Power Company  
Plant McIntosh Inactive Landfill No. 3  
Permit No. 051-008D(LI)  
Effingham County

2020 SEMIANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT



## PROFESSIONAL CERTIFICATION

This 2020 Semiannual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Inactive Landfill No. 3 has been prepared in compliance with the United States Environmental Protection Agency coal combustion 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 and 391-3-4.14 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc (ACC).

## ATLANTIC COAST CONSULTING, INC.



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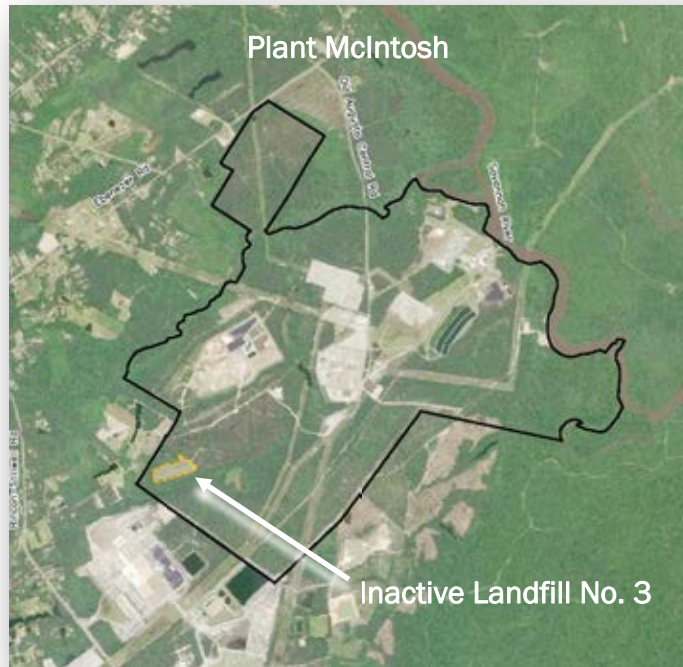
## SUMMARY

This summary of the 2020 Semiannual Groundwater Monitoring and Corrective Action Report provides the groundwater monitoring and corrective action program status through December 2020 for Georgia Power Company (Georgia Power) Plant McIntosh Inactive Landfill No. 3 (Site). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power.

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately 4 miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres west of the Savannah River. The Site is located on the southwestern portion of the plant property.

The groundwater monitoring system is comprised of 6 upgradient and 5 downgradient wells installed from 1996 through 2017 to meet state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III parameters to meet the requirements of the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) and 40 Code of Federal Regulations (CFR) § 257.95. Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and October 2018. Alternate Source Demonstrations (ASDs) completed in 2017-2020 have presented evidence demonstrating that Statistically Significant Increases (SSIs) in groundwater are not due to a release from the unit. During the 2020 semiannual reporting period, the Site remained in detection monitoring.

During the 2020 semiannual reporting period, ACC conducted a groundwater sampling event in September. Groundwater samples were submitted to Eurofins TestAmerica, Inc. (Eurofins) for analysis. Per the CCR rule, groundwater results for September 2020 data were evaluated



Plant McIntosh and Inactive Landfill No. 3

in accordance with the certified statistical methods. That evaluation showed that there are no statistically significant values of Appendix III<sup>1</sup> and permit-required Appendix I<sup>2</sup> parameters.

Based on review of the Appendix III and Appendix I statistical results completed for the groundwater monitoring and corrective action program from July through December 2020, the Site will continue in detection monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to the Georgia Environmental Protection Division (EPD) semiannually.

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<sup>1</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

<sup>2</sup> Barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc



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## 1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, ACC has prepared this *2020 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted during the second half of 2020 at the Site. Semiannual monitoring and reporting for the CCR unit are performed in accordance with the monitoring requirements of 40 CFR § 257.90 through § 257.95 of the Federal CCR rule, and Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

Groundwater monitoring is currently performed in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan (Georgia Power, 2010). An EPD-approved 2017 permit minor modification added parameters included in Appendix III and IV of 40 CFR § 257 Subpart D to the groundwater monitoring plan. An application for a new Georgia CCR permit was submitted to EPD in November 2018 for the facility to replace the existing Solid Waste Permit and is currently under review.

This report provides the results of the sampling event conducted in September 2020 and includes: (1) a state-modified list of Appendix I detection parameters according to EPD Rule 391-3-4-.14 and the approved Solid Waste Permit; and (2) CCR detection monitoring sampling events for 40 CFR § 257 Appendix III constituents.

This document serves as the *2020 Semiannual Groundwater Monitoring and Corrective Action Report* in accordance with 391-3-4-.10(6)(a).

### 1.1 Site Description and Background

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately 4 miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres (Figure 1, Site Location Map) west of the Savannah River. The Site is located on the southwestern portion of the plant property.

### 1.2 Regional Geology and Hydrogeologic Setting

Plant McIntosh is located in the Atlantic Coastal Plain Physiographic Province and situated on sediments that were deposited from the Cretaceous to Pleistocene periods. Regional lithology consists of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Physiographic Province. Boring logs describe soils as interbedded clays, silts, and sands typical of Atlantic Coastal Plain sediments.

Monitoring wells and piezometers are screened in the surficial aquifer between approximately 55 and 15 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh to the east.

### 1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was installed within the uppermost aquifer at Plant McIntosh Inactive Landfill No. 3. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Figure 2, Well Location Map, shows the monitoring well locations. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1A, Monitoring Network Well

Summary). Existing locations not included in the monitoring network are presented in Table 1B, Piezometer Summary. A Permit Minor Modification to abandon locations GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, and GWC-4B was approved by EPD on July 29, 2020. Abandonments were completed on December 3, 2020.

## **2.0 GROUNDWATER MONITORING ACTIVITIES**

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during 2020 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system shown on Figure 2 in September 2020. Wells approved for abandonment were not sampled during the September 2020 groundwater sampling event. Pursuant to 40 CFR § 257.90(e)(3), a summary and description of groundwater sampling events completed at the Site during the past year is shown on Table 2, Groundwater Sampling Event Summary.

### **2.1 Monitoring Well Installation and Maintenance**

After receiving EPD approval of a Permit Minor Modification, network wells GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, and GWC-4B were abandoned on December 3, 2020. Four wells (GWA-1B, GWC-1A, GWC-5A, GWC-6A) were installed December 4-9, 2020. These new wells were installed to characterize deeper groundwater zones adjacent to existing wells. A documentation report will be submitted to EPD under separate cover within 60 days of completion of survey. The monitoring well abandonment and installation logs are included in Appendix A, Well Abandonment and Installation Logs.

There were no other changes to the groundwater monitoring system during the semiannual monitoring period; the network is shown on Figure 2. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions. Well inspection checklists completed during semiannual sampling is included in Appendix B, Laboratory Analytical and Field Sampling Reports.

The well network was re-surveyed in June 2020. The top of the PVC well casing [top of casing (TOC) elevation] 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 (NAD83) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988 (NAVD88). The new survey data are incorporated into this report's applicable tables; a copy of the well survey data certified by a Georgia Registered Land Surveyor was included in the 2020 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2020a). Additionally, a memorandum was prepared to update and modify well construction details based on the updated survey data and included updated boring and well construction logs for the entire Site well network. The September 2020 Well Installation Addendum was submitted to GA EPD in September 2020 (ACC, 2020b).

### **2.2 Detection Monitoring Program**

Detection monitoring is performed on a semiannual basis in accordance with the approved Georgia EPD Solid Waste Permit and the Site's D&O Plan. A semiannual sampling event was conducted in September 2020.

Groundwater samples from wells in the detection monitoring system were collected and analyzed for:

- Appendix III constituents according to 40 CFR § 257.94(a); and
- A state-modified Appendix I list of detection parameters according to EPD Rules for Solid Waste Management 391-3-4-.14 and the approved D&O plan. The state-modified analyte list includes barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc.

A copy of the analytical data package for the semiannual detection monitoring event is included in Appendix B.

### 2.3 Additional Sampling

No additional sampling was conducted during the monitoring period.

## 3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe the methods used to conduct groundwater monitoring at the Site.

### 3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater elevations were recorded from piezometers and network wells at the Site. Groundwater elevations recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations. Groundwater elevation data were used to develop Figure 3, Potentiometric Surface Contour Map – September 2020. As shown on the figure, a potentiometric high exists in the western portion of the Site and groundwater flows generally eastward. The groundwater flow patterns observed during the monitoring events are consistent with historical patterns.

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

#### Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where:}$$

$v$  = ground water velocity  
 $K$  = hydraulic conductivity  
 $dh/dl$  = hydraulic gradient  
 $P_e$  = effective porosity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average permeability based on previous slug test data, and an estimated effective porosity of 0.20. The groundwater flow velocity has been calculated and is tabulated on Table 4, Horizontal Groundwater Flow Velocity Calculations – September 2020. The calculated flow velocity was approximately 0.038 feet per day during the September 2020 event.

### 3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using a peristaltic pump. The pump intakes were located at the midpoint of the well screens (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well

locations using procedures described in the latest version of the Region 4 US EPA SEDS Operating Procedure for Field Equipment Cleaning and Decontamination as a guide.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll or AquaTroll (In-Situ field instruments) was used to monitor and record field water quality parameters (pH, conductivity, oxidation-reduction potential [ORP], dissolved oxygen [DO], and temperature) during well purging prior to sampling. Turbidity was measured using a LaMotte 2020we portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- $\pm 0.1$  standard units for pH
- $\pm 5\%$  for specific conductance
- $\pm 10\%$  or 0.2 mg/L (whichever is greater) for DO where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 nephelometric turbidity units (NTU)

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins of Pittsburgh, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix B.

### 3.3 Laboratory Analyses

Groundwater samples were collected during the groundwater monitoring event in September 2020. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix B. Samples were analyzed for Appendix III parameters and Appendix I parameters required by the current state permit during the monitoring event performed in September 2020. Analytical data collected in the monitoring event are summarized in Table 5, Summary of Groundwater Analytical Data – September 2020.

Laboratory analyses were performed by Eurofins. Eurofins is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Eurofins is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events are presented in Appendix B.

### 3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of one set of QA/QC samples per every 10 samples. A set of QA/QC samples includes equipment blanks, field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation and are included in Appendix B.

Groundwater quality data in this report were validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestion spikes, laboratory and field duplicate relative percent differences (RPD), field and equipment blanks, and reporting limits. The data are considered usable for meeting project objectives and the results are considered valid. A summary of the data validation is included in Appendix B.

Values followed by a "J" flag in Table 5 indicate that the value is an estimated analyte concentration detected between the minimum detection limit and the laboratory reporting limit

RL. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

## 4.0 STATISTICAL ANALYSIS

Statistical analysis of September 2020 groundwater monitoring data was completed by Groundwater Stats Consulting, LLC (GSC) following the appropriate certified statistical methodology for the Site. Statistical analysis methods and results are provided in Appendix C, Statistical Analysis Reports. A summary of methods and results are provided in the following sections.

### 4.1 Methods

The statistical method used at the Site was developed by Groundwater Stats Consulting, LLC (GSC), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, US EPA 530/ R-09-007 (US EPA, 2009). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter and Appendix I parameters required by the existing EPD permit. Sanitas groundwater statistical software was used to screen the data and perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations.

Statistical analysis of the September 2020 monitoring event included a two-step analysis similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine background (US EPA Unified Guidance [2009], Chapter 7, Section 7.5).

Statistically significant increasing trends identified in upgradient wells are not considered SSIs. Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality.

#### 4.1.1 State Appendix I Parameters

A permit minor modification was approved by EPD on August 20, 2019, following submittal of the *2019 First Semiannual Groundwater Monitoring Report* to allow for intrawell methods to be used for evaluation of state Appendix I parameters. Statistical tests used to evaluate the groundwater monitoring data consist of intrawell prediction limits combined with a 1-of-2 verification resample plan for all required Appendix I parameters. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. 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 sitewide background.

If data from a sampling event initially exceeds the prediction limit, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the prediction limit, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not



exceed the prediction limit, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

#### **4.1.2 Appendix III Parameters**

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for Appendix III parameters boron, calcium, and fluoride. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter.

Monitoring results for chloride, pH, sulfate, and TDS were evaluated using intrawell prediction limits combined with a 1-of-2 verification resample plan. As with the Appendix I methodology, instances where an intrawell statistical exceedance is identified, interwell statistical methods may be used to determine sitewide background for SSI identification. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 6, Statistical Method Summary.

#### **4.2 Summary of Statistical Analyses Results for State Appendix I Parameters**

Analytical data from the September 2020 monitoring event were statistically analyzed in accordance with the established methods. The statistical analysis and comparisons to prediction limits are included in Appendix C.

Statistical analysis of the September 2020 Appendix I parameter data identified initial PL exceedances of zinc at GWC-2A, GWC-4A, and GWC-5. Using the two-step analysis described in the statistical analysis report Appendix C, no exceedances were noted above the interwell PLs for zinc. Therefore, during the September 2020 event, there were no parameters that constituted statistical exceedances.

#### **4.3 Summary of Statistical Analyses Results for Appendix III Parameters**

Analytical data from the September 2020 monitoring event were statistically analyzed in accordance with the established methods. The statistical analysis and comparisons to prediction limits are included in Appendix C.

Statistical analysis of the September 2020 Appendix III parameter data identified an initial PL exceedance of chloride at GWC-1. Using the two-step analysis described in Appendix C, the exceedance was not noted above the interwell PL. Therefore, during the September 2020 event, there were no parameters that constituted statistical exceedances.

### **5.0 MONITORING PROGRAM STATUS**

Based on current data, there were no SSIs identified; therefore, the Site will remain in detection monitoring.

### **6.0 CONCLUSIONS AND FUTURE ACTIONS**

This *2020 Semiannual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant McIntosh Inactive Landfill No. 3 was prepared to fulfill the requirements of USEPA's CCR Rule and Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10.

Statistical evaluation of Site groundwater monitoring data did not identify SSIs of Appendix III groundwater monitoring parameters or Appendix I parameters required by the existing EPD permit. The Site remains in detection monitoring.

The next semiannual assessment monitoring event is tentatively scheduled for March 2021.

## 7.0 REFERENCES

ACC, 2020a, *2020 Annual Groundwater Monitoring and Corrective Action Report – Plant McIntosh Inactive Landfill No. 3.*

ACC, 2020b, *September 2020 Well Installation Report Addendum.*

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U.S. EPA, 2011, *Region IV Data Validation Standard Operating Procedures.* Science and Ecosystem Support Division. Athens, Georgia.

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## TABLES

**Table 1A**  
**Monitoring Network Well Summary**

| Well    | Installation Date<br>(mm/dd/yyyy) | Northing  | Easting   | Bottom Depth<br>(ft BTOC) | Bottom Elevation<br>(NAVD88) | Depth to Top of Screen<br>(ft BTOC) | Top of Screen Elevation<br>(NAVD88) | Purpose      |
|---------|-----------------------------------|-----------|-----------|---------------------------|------------------------------|-------------------------------------|-------------------------------------|--------------|
| GWA-1*  | 5/6/1998                          | 852026.28 | 954546.93 | 36.00                     | 30.90                        | 25.64                               | 41.26                               | Upgradient   |
| GWA-1A  | 1/5/2017                          | 852023.48 | 954556.79 | 37.53                     | 29.23                        | 27.53                               | 39.23                               | Upgradient   |
| GWA-1B  | 12/4/2020                         | 852028.09 | 954564.84 | 58.53                     | 8.83                         | 47.96                               | 19.40                               | Upgradient   |
| GWA-2*  | 5/7/1998                          | 851831.46 | 954854.59 | 33.00                     | 33.17                        | 27.65                               | 38.52                               | Upgradient   |
| GWA-2A* | 1/10/2017                         | 851830.61 | 954846.09 | 43.18                     | 23.15                        | 33.18                               | 33.15                               | Upgradient   |
| GWA-2B  | 8/29/2018                         | 851831.06 | 954866.86 | 51.78                     | 14.42                        | 41.48                               | 24.72                               | Upgradient   |
| GWA-3A  | 5/16/1998                         | 851893.61 | 955179.89 | 33.88                     | 28.89                        | 22.74                               | 40.03                               | Upgradient   |
| GWA-3B* | 5/16/1998                         | 851891.96 | 955180.00 | 18.56                     | 44.22                        | 7.75                                | 55.03                               | Upgradient   |
| GWA-4   | 5/7/1998                          | 851980.91 | 955475.74 | 29.16                     | 32.85                        | 23.71                               | 38.30                               | Upgradient   |
| GWA-5   | 5/7/1998                          | 852110.59 | 955844.69 | 33.00                     | 27.43                        | 22.58                               | 37.85                               | Upgradient   |
| GWA-7*  | 11/7/2000                         | 852261.63 | 954667.90 | 36.00                     | 31.77                        | 25.20                               | 42.57                               | Upgradient   |
| GWA-7A  | 8/29/2018                         | 852254.28 | 954654.74 | 46.94                     | 20.98                        | 36.64                               | 31.28                               | Upgradient   |
| GWC-1   | 1/22/1996                         | 852446.79 | 955308.31 | 35.95                     | 30.13                        | 26.15                               | 39.93                               | Downgradient |
| GWC-1A  | 12/8/2020                         | 852453.58 | 955300.47 | 47.37                     | 19.39                        | 36.83                               | 29.93                               | Downgradient |
| GWC-2   | 1/23/1996                         | 852343.90 | 955958.27 | 36.79                     | 27.40                        | 26.99                               | 37.20                               | Downgradient |
| GWC-3*  | 1/25/1996                         | 852759.94 | 954845.83 | 35.56                     | 31.35                        | 25.76                               | 41.15                               | Downgradient |
| GWC-4A  | 5/16/1998                         | 852544.35 | 955702.05 | 36.96                     | 29.64                        | 24.73                               | 41.87                               | Downgradient |
| GWC-4B* | 5/16/1998                         | 852546.24 | 955700.46 | 18.00                     | 48.83                        | 6.96                                | 59.87                               | Downgradient |
| GWC-5   | 5/5/1998                          | 852679.23 | 955461.61 | 31.00                     | 37.08                        | 21.15                               | 46.93                               | Downgradient |
| GWC-5A  | 12/9/2020                         | 852689.80 | 955477.18 | 42.60                     | 25.24                        | 32.45                               | 35.39                               | Downgradient |
| GWC-6   | 5/6/1998                          | 852469.31 | 955055.59 | 32.64                     | 35.87                        | 26.73                               | 41.78                               | Downgradient |
| GWC-6A  | 12/7/2020                         | 852462.38 | 955046.58 | 42.43                     | 25.94                        | 32.08                               | 36.29                               | Downgradient |

Notes:

1. ft BTOC indicates feet below top of casing.
2. Northings and eastings are feet relative to North American Datum 1983 (NAD83), State Plane Georgia East Zone.
3. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
4. \* Wells were abandoned per EPD-approved Minor Modification on December 3, 2020.
5. Wells resurveyed June 2020.

**Table 1B**  
**Piezometer Summary**

| <b>Well</b> | <b>Installation Date<br/>(mm/dd/yyyy)</b> | <b>Northing</b> | <b>Easting</b> | <b>Bottom Depth<br/>(ft BTOC)</b> | <b>Bottom Elevation<br/>(NAVD88)</b> | <b>Depth to Top of Screen<br/>(ft BTOC)</b> | <b>Top of Screen Elevation<br/>(NAVD88)</b> | <b>Purpose</b> |
|-------------|-------------------------------------------|-----------------|----------------|-----------------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------|----------------|
| PZ-1        | 8/29/2018                                 | 852400.01       | 954904.93      | 52.71                             | 14.70                                | 42.41                                       | 25.00                                       | Piezometer     |
| PZ-2        | 8/28/2018                                 | 852549.77       | 955306.02      | 42.27                             | 24.99                                | 31.97                                       | 35.29                                       | Piezometer     |
| PZ-3        | 8/30/2018                                 | 852032.57       | 955677.60      | 41.59                             | 19.69                                | 31.29                                       | 29.99                                       | Piezometer     |

Notes:

1. ft BTOC indicates feet below top of casing.
2. Northings and eastings are feet relative to North American Datum 1983 (NAD83), State Plane Georgia East Zone.
3. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
4. Piezometers resurveyed June 2020.

**Table 2**  
**Groundwater Sampling Event Summary**

| Well                      | Hydraulic Location | Sept. 21-22 2020     |
|---------------------------|--------------------|----------------------|
| Purpose of Sampling Event |                    | Semiannual Detection |
| GWA-1A                    | Upgradient         | X                    |
| GWA-2B                    | Upgradient         | X                    |
| GWA-3A                    | Upgradient         | X                    |
| GWA-4                     | Upgradient         | X                    |
| GWA-5                     | Upgradient         | X                    |
| GWA-7A                    | Upgradient         | X                    |
| GWC-1                     | Downgradient       | X                    |
| GWC-2                     | Downgradient       | X                    |
| GWC-4A                    | Downgradient       | X                    |
| GWC-5                     | Downgradient       | X                    |
| GWC-6                     | Downgradient       | X                    |

Notes:

1. X indicates sample was collected.
2. Semiannual Detection Event includes Appendix III and Appendix I Parameters.
3. Wells GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, and GWC-4B were abandoned. Therefore, these wells were not sampled during the September 2020 monitoring event.

**Table 3**  
**Summary of Groundwater Elevations**

| Well ID | Top-of-Casing<br>Elevation<br>(NAVD88) | Groundwater<br>Elevation<br>(NAVD88) |
|---------|----------------------------------------|--------------------------------------|
| GWA-1*  | 66.90                                  | 54.63                                |
| GWA-1A  | 66.76                                  | 53.36                                |
| GWA-2*  | 66.17                                  | 52.35                                |
| GWA-2A* | 66.33                                  | 48.28                                |
| GWA-2B  | 66.20                                  | 48.21                                |
| GWA-3A  | 62.77                                  | 48.42                                |
| GWA-3B* | 62.78                                  | 49.55                                |
| GWA-4   | 62.01                                  | 47.73                                |
| GWA-5   | 60.43                                  | 47.01                                |
| GWA-7*  | 67.77                                  | 50.52                                |
| GWA-7A  | 67.92                                  | 46.54                                |
| GWC-1   | 66.08                                  | 47.32                                |
| GWC-2   | 64.19                                  | 46.10                                |
| GWC-3*  | 66.91                                  | 45.69                                |
| GWC-4A  | 66.60                                  | 46.82                                |
| GWC-4B* | 66.83                                  | DRY                                  |
| GWC-5   | 68.08                                  | 49.03                                |
| GWC-6   | 68.51                                  | 47.90                                |
| PZ-1    | 67.41                                  | 46.61                                |
| PZ-2    | 67.26                                  | 46.86                                |
| PZ-3    | 61.28                                  | 47.34                                |

Notes:

1. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
2. Groundwater elevations measured September 14, 2020.
3. \* Wells were abandoned per EPD-approved Minor Modification on December 3, 2020.



**Table 4**  
**HORIZONTAL GROUNDWATER FLOW VELOCITY CALCULATIONS**  
**September 2020**

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where: } v = \text{ground water velocity}$$

$K = \text{hydraulic conductivity}$   
 $dh/dl = \text{hydraulic gradient}$   
 $P_e = \text{effective porosity}$

Values Used in Calculation

| Value                                                                      | Source                                                      |
|----------------------------------------------------------------------------|-------------------------------------------------------------|
| K = 7.9E-04 cm/sec<br>2.24 ft/day                                          | See note 1.                                                 |
| dh/dl <sub>1</sub> = 0.004 unitless<br>dh/dl <sub>2</sub> = 0.003 unitless | Hydraulic gradient from<br>GWA-5 to GWC-2<br>GWA-3A to PZ-1 |
| dh/dl <sub>avg</sub> = 0.003 unitless                                      | Average of dh/dl <sub>1,2</sub>                             |
| P <sub>e</sub> = 0.20 unitless                                             | See note 2.                                                 |

Calculated Flow Velocity

$$v = \frac{(2.24)(0.003)}{0.20}$$

$$v = 0.038 \text{ ft/day, or } 14 \text{ ft/year}$$

Notes

- (1) Slug tests performed by Southern Company Services, Inc. (2002)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

**Table 5**  
**Plant McIntosh Inactive Landfill No. 3**  
**Summary of Groundwater Analytical Data**  
**September 2020**

| Substance          |           | Well ID   |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |           | GWA-1A    | GWA-2B    | GWA-3A    | GWA-4     | GWA-5     | GWA-7A    | GWC-1     | GWC-2     |
|                    |           | 9/21/2020 | 9/22/2020 | 9/21/2020 | 9/21/2020 | 9/22/2020 | 9/21/2020 | 9/22/2020 | 9/22/2020 |
| APPENDIX III       | Boron     | 0.11      | 0.73      | 0.11      | 0.073 J   | 0.097     | 0.61      | 0.098     | 0.083     |
|                    | Calcium   | 1.8       | 16        | 3.1       | 1.4       | 2.9       | 13        | 0.21 J    | 2.1       |
|                    | Chloride  | 8.1       | 8.0       | 19        | 5.4       | 6.3       | 6.5       | 6.9       | 5.4       |
|                    | Fluoride  | <0.026    | 0.039 J   | <0.026    | 0.060 J   | 0.049 J   | <0.026    | <0.026    | <0.026    |
|                    | pH        | 4.95      | 5.83      | 4.69      | 4.60      | 4.99      | 5.35      | 4.66      | 5.04      |
|                    | Sulfate   | <0.38     | 52        | <0.38     | 5.0       | 12        | 49        | 0.63 J    | <0.38     |
|                    | TDS       | 31        | 110       | 61        | 31        | 53        | 130       | <10       | 30        |
| Required by Permit | Barium    | 0.023     | 0.049     | 0.083     | 0.052     | 0.078     | 0.11      | 0.022     | 0.061     |
|                    | Beryllium | 0.00020 J | 0.00042 J | 0.00054 J | <0.00018  | <0.00018  | <0.00018  | <0.00018  | 0.00025 J |
|                    | Chromium  | 0.0049    | <0.0015   | <0.0015   | <0.0015   | 0.0017 J  | <0.0015   | 0.0017 J  | 0.0036    |
|                    | Cobalt    | 0.00030 J | <0.00013  | 0.0016 J  | 0.00059 J | 0.00064 J | 0.0025    | 0.00021 J | 0.00092 J |
|                    | Copper    | <0.00063  | 0.00096 J | <0.00063  | <0.00063  | 0.0013 J  | 0.0018 J  | <0.00063  | <0.00063  |
|                    | Lead      | <0.00013  | <0.00013  | <0.00013  | 0.00025 J | 0.0012    | <0.00013  | <0.00013  | <0.00013  |
|                    | Vanadium  | <0.00099  | <0.00099  | <0.00099  | 0.0012    | 0.0056    | <0.00099  | <0.00099  | <0.00099  |
|                    | Zinc      | <0.0032   | 0.0066    | 0.0055    | 0.013     | 0.039     | 0.0070    | <0.0032   | 0.029     |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.  
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet EPD Rule 391-3-4-.14 requirements.

**Table 5**  
**Plant McIntosh Inactive Landfill No. 3**  
**Summary of Groundwater Analytical Data**  
**September 2020**

| Substance          |           | Well ID   |           |           |
|--------------------|-----------|-----------|-----------|-----------|
|                    |           | GWC-4A    | GWC-5     | GWC-6     |
|                    |           | 9/22/2020 | 9/22/2020 | 9/22/2020 |
| APPENDIX III       | Boron     | 0.053 J   | 0.045 J   | 0.048 J   |
|                    | Calcium   | 0.51      | 8.0       | 1.9       |
|                    | Chloride  | 11        | 8.3       | 7.6       |
|                    | Fluoride  | <0.026    | 0.10      | <0.026    |
|                    | pH        | 4.92      | 5.87      | 4.73      |
|                    | Sulfate   | 0.76 J    | 4.3       | 0.59 J    |
|                    | TDS       | 36        | 440       | 30        |
| Required by Permit | Barium    | 0.031     | 0.51      | 0.051     |
|                    | Beryllium | <0.00018  | 0.0011 J  | 0.00021 J |
|                    | Chromium  | <0.0015   | <0.0015   | <0.0015   |
|                    | Cobalt    | 0.00042 J | 0.011     | 0.00058 J |
|                    | Copper    | <0.00063  | <0.00063  | <0.00063  |
|                    | Lead      | <0.00013  | 0.00013 J | <0.00013  |
|                    | Vanadium  | <0.00099  | 0.0015    | 0.0011    |
|                    | Zinc      | 0.017     | 0.037     | 0.0053    |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value.  
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet EPD Rule 391-3-4-.14 requirements.

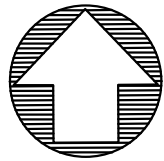
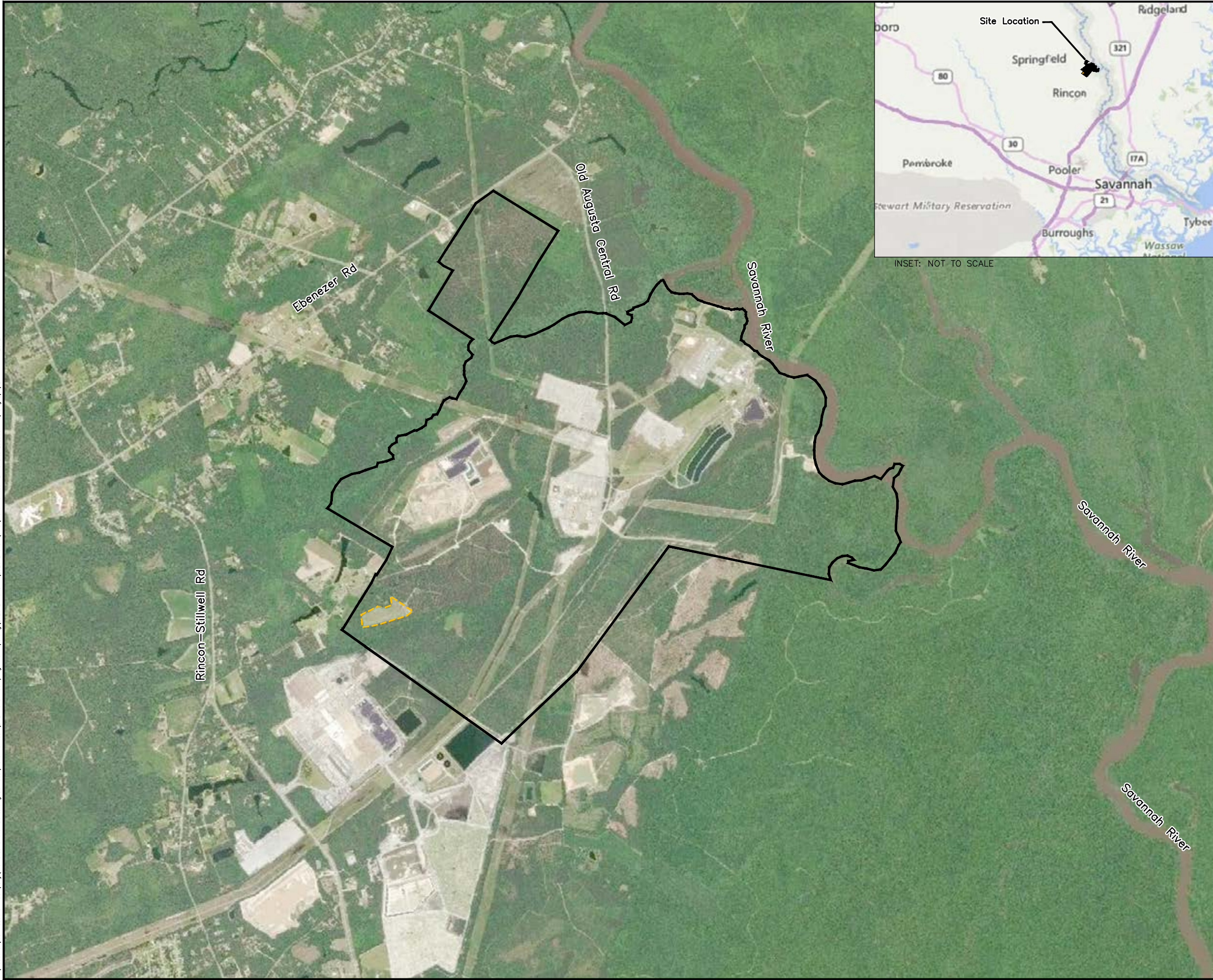
**Table 6**  
**Statistical Method Summary**

| <b>Plant McIntosh Inactive Landfill No. 3 Statistical Method Summary</b> |                                     |                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring Well Network                                                  | Upgradient Wells                    | GWA-1A, GWA-2B, GWA-3A, GWA-4, GWA-5, GWA-7A                                                                                                                                                                                                                                                                                 |
|                                                                          | Downgradient Wells                  | GWC-1, GWC-2, GWC-4A, GWC-5, GWC-6                                                                                                                                                                                                                                                                                           |
| CCR Monitoring Parameters                                                | Appendix III (Detection Monitoring) | Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS                                                                                                                                                                                                                                                                     |
|                                                                          | Appendix IV (Assessment Monitoring) | Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium                                                                                                                                                             |
| EPD Permit Metals                                                        | Detection Monitoring                | Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Vanadium, and Zinc                                                                                                                                                                                                                                                        |
| Statistical Methodology                                                  | Data Screening Proposed Background  | Evaluate outliers, trends, and seasonality when sufficient data are available                                                                                                                                                                                                                                                |
|                                                                          | Statistical Limits                  | Interwell (boron, calcium, and fluoride) or intrawell (chloride, pH, sulfate, TDS, and EPD Permit Metals) statistical limits are on constituent specific basis, depending on the appropriateness of the method as determined by the Analysis of Variance. Intrawell exceedances are further evaluated by interwell analysis. |

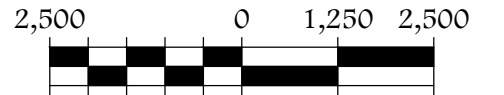
## FIGURES



F:\Industrial\054-Southern Company\110-Groundwater Consulting Services\Plant McIntosh\2-LF-3 GW Sampling And Reporting\2020 LF-3 GWA\2020 2nd SA\DMC\Plant McIntosh LF-3 Site Location Map.dwg 2/4/21 MATT MALONE



ATLANTIC COAST  
CONSULTING, INC.



SCALE (IN FEET)

## LEGEND:

| EXISTING | DESCRIPTION                   |
|----------|-------------------------------|
|          | APPROXIMATE PROPERTY BOUNDARY |
|          | INACTIVE LANDFILL No. 3       |

### PROJECT



GEORGIA POWER COMPANY  
PLANT McINTOSH

### SITE LOCATION MAP

PROJECT NO. I054-110

February 2021

DRAWN BY: MM

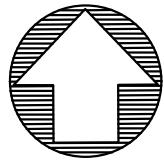
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FIGURE:

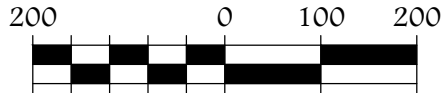
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\\ATLANTA1\Projects\Industrial\Southern Company\110-Groundwater Consulting Services\Plant McIntosh\_V2-LF-3 GW Sampling And Reporting\2020 LF-3 GWA\2020 2nd SA GWA\Plant McIntosh LF-3 Well Location Map.dwg 2/17/21 EVAN PERRY



ATLANTIC COAST  
CONSULTING, INC.



SCALE (IN FEET)

## LEGEND:

| EXISTING | DESCRIPTION                     |
|----------|---------------------------------|
|          | APPROXIMATE PROPERTY BOUNDARY   |
|          | APPROXIMATE LIMITS OF WASTE     |
|          | <b>GWC-1</b><br>MONITORING WELL |
|          | <b>PZ-1</b><br>PIEZOMETER       |

### NOTES:

- WELLS DENOTED BY ASTERISKS (GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, AND GWC-4B) WERE ABANDONED IN DECEMBER 2020.
- WELLS GWA-1B, GWC-1A, GWC-5A, AND GWC-6A WERE INSTALLED IN DECEMBER 2020.

### PROJECT



GEORGIA POWER COMPANY  
PLANT MCINTOSH  
INACTIVE LANDFILL No. 3

## WELL LOCATION MAP

PROJECT NO. I054-110

February 2021

DRAWN BY: MM

CHECKED BY: EP

FIGURE:



P:\Industrial\054-Southern Company\110-Groundwater Consulting Services\Plant McIntosh\2-LF-3 GW Sampling And Reporting\2020 LF-3 GWA\2020 2nd SA\DWG\Plant McIntosh LF-3 September 2020 Map.dwg 2/4/21 MATT MALONE

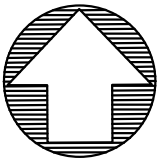
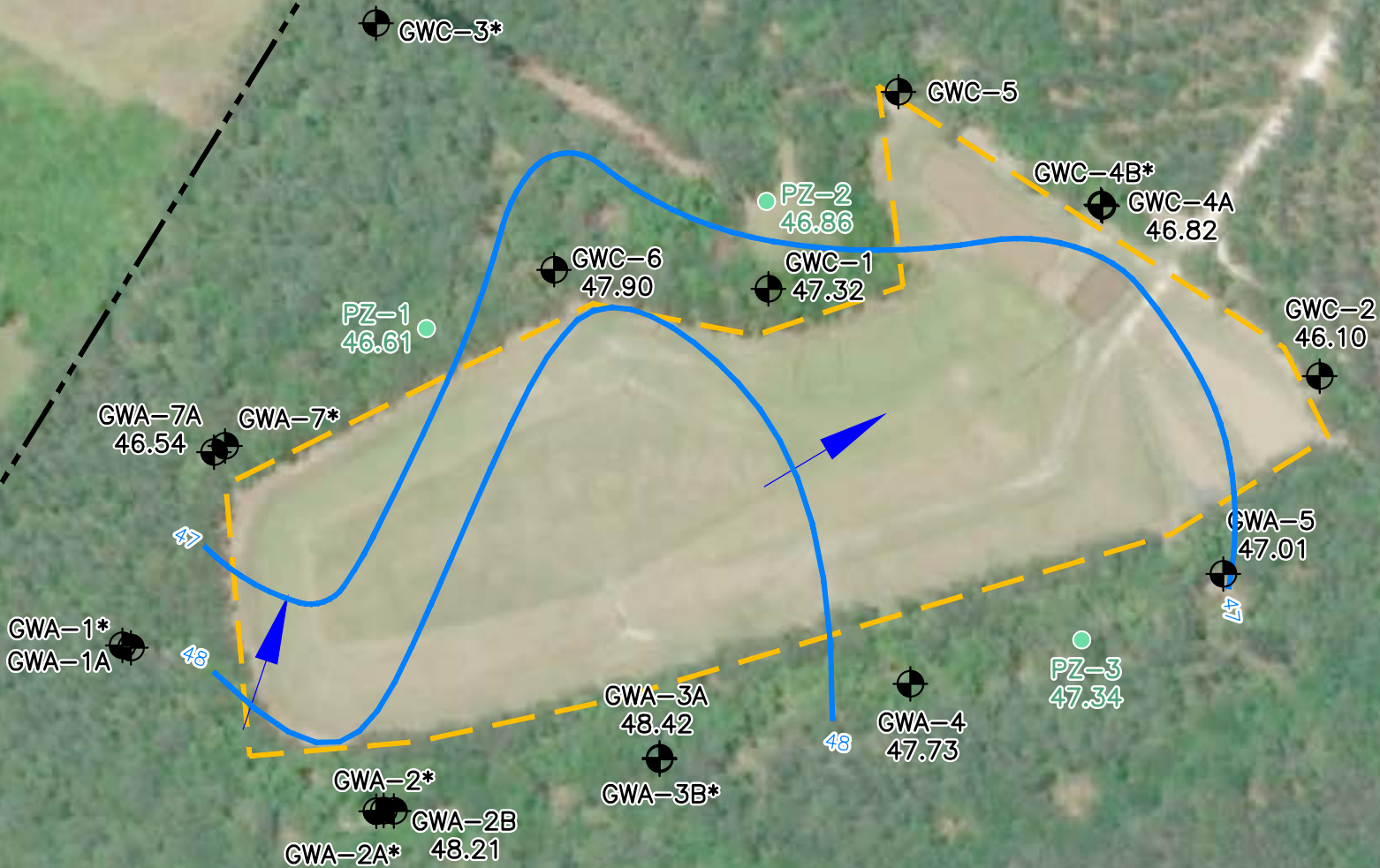
Summary of Groundwater Elevations  
Plant McIntosh  
Inactive Landfill No. 3  
September 2020 Sampling Event

| Monitoring Well ID | Total Depth (ft BTOC) | Top of Casing (ft NAVD) | Depth to Water (ft BTOC) | Groundwater Elevation (ft NAVD) |
|--------------------|-----------------------|-------------------------|--------------------------|---------------------------------|
| GWA-1*             | 36.00                 | 66.90                   | 12.27                    | 54.63                           |
| GWA-1A             | 37.53                 | 66.76                   | 13.40                    | 53.36                           |
| GWA-2*             | 33.00                 | 66.17                   | 13.82                    | 52.35                           |
| GWA-2A*            | 43.18                 | 66.33                   | 18.05                    | 48.28                           |
| GWA2B-             | 51.78                 | 66.20                   | 17.99                    | 48.21                           |
| GWA-3A             | 33.88                 | 62.77                   | 14.35                    | 48.42                           |
| GWA-3B*            | 18.56                 | 62.78                   | 13.23                    | 49.55                           |
| GWA-4              | 29.16                 | 62.01                   | 14.28                    | 47.73                           |
| GWA-5              | 33.00                 | 60.43                   | 13.42                    | 47.01                           |
| GWA-7*             | 36.00                 | 67.77                   | 17.25                    | 50.52                           |
| GWA-7A             | 46.94                 | 67.92                   | 21.38                    | 46.54                           |
| GWC-1              | 35.95                 | 66.08                   | 18.76                    | 47.32                           |
| GWC-2              | 36.79                 | 64.19                   | 18.09                    | 46.10                           |
| GWC-3*             | 35.56                 | 66.91                   | 21.22                    | 45.69                           |
| GWC-4A             | 36.96                 | 66.60                   | 19.78                    | 46.82                           |
| GWC-4B*            | 18.00                 | 66.83                   | DRY                      | DRY                             |
| GWC-5              | 31.00                 | 68.08                   | 19.05                    | 49.03                           |
| GWC-6              | 32.64                 | 68.51                   | 20.61                    | 47.90                           |
| PZ-1               | 52.71                 | 67.41                   | 20.80                    | 46.61                           |
| PZ-2               | 42.27                 | 67.26                   | 20.40                    | 46.86                           |
| PZ-3               | 41.59                 | 61.28                   | 13.94                    | 47.34                           |

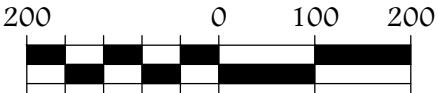
Notes: Depths to water measured within a 24-hour period on September 14, 2020.

ft NAVD = feet North American Vertical Datum of 1988

ft BTOC = feet below top of casing



ATLANTIC COAST  
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

| EXISTING | DESCRIPTION                   |
|----------|-------------------------------|
|          | APPROXIMATE PROPERTY BOUNDARY |
|          | APPROXIMATE LIMITS OF WASTE   |
|          | MONITORING WELL               |
|          | GROUNDWATER ELEVATION         |
|          | PIEZOMETER                    |
|          | GROUNDWATER ELEVATION         |
|          | GROUNDWATER ELEVATION CONTOUR |
|          | GROUNDWATER FLOW DIRECTION    |

- NOTES:
- GWA-1, GWA-1A, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, GWC-4B, AND GWC-5 NOT USED TO CONSTRUCT POTENTIOMETRIC CONTOURS.
  - WELLS DENOTED BY ASTERISKS (GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, AND GWC-4B) WERE ABANDONED IN DECEMBER 2020.

PROJECT



GEORGIA POWER COMPANY  
PLANT McINTOSH  
INACTIVE LANDFILL No. 3

POTENTIOMETRIC CONTOUR MAP  
SEPTEMBER 2020

PROJECT NO. I054-110

FEBRUARY 2021

DRAWN BY: RW

CHECKED BY: EP

FIGURE:



## APPENDICES

# **APPENDIX A**

## **WELL ABANDONMENT AND INSTALLATION LOGS**



## Well Abandonment Documentation Form

### General Information

|                         |                                    |                    |               |                  |           |
|-------------------------|------------------------------------|--------------------|---------------|------------------|-----------|
| <b>Project Name</b>     | McIntosh LF No. 3 Well Abandonment | <b>Inspector</b>   | Taylor Goble  | <b>Well Id.</b>  | GWA-1     |
| <b>Project Number</b>   | I054-110                           | <b>Weather</b>     | Sunny         | <b>Sheet</b>     | 1 of 1    |
| <b>Drilling Company</b> | Cascade                            | <b>Temperature</b> | ~52 degrees F | <b>Started</b>   | 12/3/2020 |
| <b>Client Name</b>      | Southern Company                   | <b>Driller</b>     | Tommy Ardito  | <b>Completed</b> | 12/3/2020 |

### Well Construction Information

|                             |                       |                             |                     |                      |                 |
|-----------------------------|-----------------------|-----------------------------|---------------------|----------------------|-----------------|
| <b>Well Depth (ft btoc)</b> | 32.93'                | <b>Screen Type</b>          | Sch. 40 PVC         | <b>Grout Type</b>    | Portland Cement |
| <b>Well Casing Dia.</b>     | 2" L.F. 23'           | <b>Slot Size (in.)</b>      | 0.010" Machine slot | <b>End Cap/Sump</b>  | 4"              |
| <b>Casing Type</b>          | Sch. 40 PVC           | <b>Pack Type &amp; Size</b> | 20/30 quartz sand   | <b>Protective</b>    |                 |
| <b>Joint Type</b>           | Flush Threaded O-ring | <b>Seal Type</b>            | Bentonite           | <b>Casing</b>        | Steel           |
| <b>Well Screen Dia.</b>     | 2" L.F. 10'           |                             |                     | <b>Well Pad Size</b> | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.7 ft<sup>3</sup>      Actual Grout Volume: 0.7 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of screen.
4. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Concrete pad and well casing material disposed of on site at approved location.

#### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 13.08' btoc shortly before abandonment.



## Well Abandonment Documentation Form

### General Information

|                  |                                    |             |               |           |           |
|------------------|------------------------------------|-------------|---------------|-----------|-----------|
| Project Name     | McIntosh LF No. 3 Well Abandonment | Inspector   | Taylor Goble  | Well Id.  | GWA-2     |
| Project Number   | I054-110                           | Weather     | Partly Cloudy | Sheet     | 1 of 1    |
| Drilling Company | Cascade                            | Temperature | ~62 degrees F | Started   | 12/3/2020 |
| Client Name      | Southern Company                   | Driller     | Tommy Ardito  | Completed | 12/3/2020 |

### Well Construction Information

|                      |                       |                  |                     |               |                 |
|----------------------|-----------------------|------------------|---------------------|---------------|-----------------|
| Well Depth (ft btoc) | 33.75'                | Screen Type      | Sch. 40 PVC         | Grout Type    | Portland Cement |
| Well Casing Dia.     | 2" L.F. 28'           | Slot Size (in.)  | 0.010" Machine slot | End Cap/Sump  | 4"              |
| Casing Type          | Sch. 40 PVC           | Pack Type & Size | 10/30 quartz sand   | Protective    |                 |
| Joint Type           | Flush Threaded O-ring | Seal Type        | Bentonite           | Casing        | Steel           |
| Well Screen Dia.     | 2" L.F. 5'            |                  |                     | Well Pad Size | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.7 ft<sup>3</sup> Actual Grout Volume: 0.7 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of screen.
4. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Concrete pad and well casing material disposed of on site at approved location.

### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 14.80' btoc shortly before abandonment.





## Well Abandonment Documentation Form

### General Information

|                         |                                    |                    |               |                  |           |
|-------------------------|------------------------------------|--------------------|---------------|------------------|-----------|
| <b>Project Name</b>     | McIntosh LF No. 3 Well Abandonment | <b>Inspector</b>   | Taylor Goble  | <b>Well Id.</b>  | GWA-2A    |
| <b>Project Number</b>   | I054-110                           | <b>Weather</b>     | Partly Cloudy | <b>Sheet</b>     | 1 of 1    |
| <b>Drilling Company</b> | Cascade                            | <b>Temperature</b> | ~63 degrees F | <b>Started</b>   | 12/3/2020 |
| <b>Client Name</b>      | Southern Company                   | <b>Driller</b>     | Tommy Ardito  | <b>Completed</b> | 12/3/2020 |

### Well Construction Information

|                             |                       |                             |                     |                      |                 |
|-----------------------------|-----------------------|-----------------------------|---------------------|----------------------|-----------------|
| <b>Well Depth (ft btoc)</b> | 43.18'                | <b>Screen Type</b>          | Sch. 40 PVC         | <b>Grout Type</b>    | Portland Cement |
| <b>Well Casing Dia.</b>     | 2" L.F. 33'           | <b>Slot Size (in.)</b>      | 0.010" Machine slot | <b>End Cap/Sump</b>  | 4"              |
| <b>Casing Type</b>          | Sch. 40 PVC           | <b>Pack Type &amp; Size</b> | 20/40 quartz sand   | <b>Protective</b>    |                 |
| <b>Joint Type</b>           | Flush Threaded O-ring | <b>Seal Type</b>            | Bentonite           | <b>Casing</b>        | Steel           |
| <b>Well Screen Dia.</b>     | 2" L.F. 10'           |                             |                     | <b>Well Pad Size</b> | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.9 ft<sup>3</sup> Actual Grout Volume: 0.9 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets inside well to the top of screen.
4. Filled 2" PVC with Aqua Guard bentonite grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Concrete pad and well casing material disposed of on site at approved location.

#### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 18.83' btoc shortly before abandonment.



## Well Abandonment Documentation Form

### General Information

|                  |                                    |             |               |           |           |
|------------------|------------------------------------|-------------|---------------|-----------|-----------|
| Project Name     | McIntosh LF No. 3 Well Abandonment | Inspector   | Taylor Goble  | Well Id.  | GWA-3B    |
| Project Number   | I054-110                           | Weather     | Sunny         | Sheet     | 1 of 1    |
| Drilling Company | Cascade                            | Temperature | ~62 degrees F | Started   | 12/3/2020 |
| Client Name      | Southern Company                   | Driller     | Tommy Ardito  | Completed | 12/3/2020 |

### Well Construction Information

|                      |                       |                  |                     |               |                 |
|----------------------|-----------------------|------------------|---------------------|---------------|-----------------|
| Well Depth (ft btoc) | 18.57'                | Screen Type      | Sch. 40 PVC         | Grout Type    | Portland Cement |
| Well Casing Dia.     | 2" L.F. 8'            | Slot Size (in.)  | 0.010" Machine slot | End Cap/Sump  | 4"              |
| Casing Type          | Sch. 40 PVC           | Pack Type & Size | 10/30 quartz sand   | Protective    |                 |
| Joint Type           | Flush Threaded O-ring | Seal Type        | Bentonite           | Casing        | Steel           |
| Well Screen Dia.     | 2" L.F. 10'           |                  |                     | Well Pad Size | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.35 ft<sup>3</sup>      Actual Grout Volume: 0.35 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of the screen.
4. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Well casing material disposed of on site at approved location. Well pad left in place (shared with GWA-3A).

### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 13.89' btoc shortly before abandonment.



## Well Abandonment Documentation Form

### General Information

|                  |                                    |             |               |           |           |
|------------------|------------------------------------|-------------|---------------|-----------|-----------|
| Project Name     | McIntosh LF No. 3 Well Abandonment | Inspector   | Taylor Goble  | Well Id.  | GWA-7     |
| Project Number   | I054-110                           | Weather     | Sunny         | Sheet     | 1 of 1    |
| Drilling Company | Cascade                            | Temperature | ~62 degrees F | Started   | 12/3/2020 |
| Client Name      | Southern Company                   | Driller     | Tommy Ardito  | Completed | 12/3/2020 |

### Well Construction Information

|                      |                       |                  |                     |               |                 |
|----------------------|-----------------------|------------------|---------------------|---------------|-----------------|
| Well Depth (ft btoc) | 32.93'                | Screen Type      | Sch. 40 PVC         | Grout Type    | Portland Cement |
| Well Casing Dia.     | 2" L.F. 23'           | Slot Size (in.)  | 0.010" Machine slot | End Cap/Sump  | 4"              |
| Casing Type          | Sch. 40 PVC           | Pack Type & Size | 10/30 quartz sand   | Protective    |                 |
| Joint Type           | Flush Threaded O-ring | Seal Type        | Bentonite           | Casing        | Steel           |
| Well Screen Dia.     | 2" L.F. 10'           |                  |                     | Well Pad Size | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.7 ft<sup>3</sup>      Actual Grout Volume: 0.7 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of the screen.
4. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Concrete pad and well casing material disposed of on site at approved location.

#### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 18.06' btoc shortly before abandonment.



## Well Abandonment Documentation Form

### General Information

|                         |                                    |                    |               |                  |           |
|-------------------------|------------------------------------|--------------------|---------------|------------------|-----------|
| <b>Project Name</b>     | McIntosh LF No. 3 Well Abandonment | <b>Inspector</b>   | Taylor Goble  | <b>Well Id.</b>  | GWC-3     |
| <b>Project Number</b>   | I054-110                           | <b>Weather</b>     | Sunny         | <b>Sheet</b>     | 1 of 1    |
| <b>Drilling Company</b> | Cascade                            | <b>Temperature</b> | ~63 degrees F | <b>Started</b>   | 12/3/2020 |
| <b>Client Name</b>      | Southern Company                   | <b>Driller</b>     | Tommy Ardito  | <b>Completed</b> | 12/3/2020 |

### Well Construction Information

|                             |                       |                             |                     |                      |                 |
|-----------------------------|-----------------------|-----------------------------|---------------------|----------------------|-----------------|
| <b>Well Depth (ft btoc)</b> | 36.70'                | <b>Screen Type</b>          | Sch. 40 PVC         | <b>Grout Type</b>    | Portland Cement |
| <b>Well Casing Dia.</b>     | 2" L.F. 26'           | <b>Slot Size (in.)</b>      | 0.010" Machine slot | <b>End Cap/Sump</b>  | 4"              |
| <b>Casing Type</b>          | Sch. 40 PVC           | <b>Pack Type &amp; Size</b> | #2 Filter Sand      | <b>Protective</b>    |                 |
| <b>Joint Type</b>           | Flush Threaded O-ring | <b>Seal Type</b>            | Bentonite           | <b>Casing</b>        | Steel           |
| <b>Well Screen Dia.</b>     | 2" L.F. 10'           |                             |                     | <b>Well Pad Size</b> | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.75 ft<sup>3</sup>      Actual Grout Volume: 0.75 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of the screen.
4. Filled 2" PVC with bentonite/Portland cement grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Concrete pad and well casing material disposed of on site at approved location.

#### Notes:

No obstructions or bridging noted in the well during well tagging.  
Water level 22.13' btoc shortly before abandonment.



## Well Abandonment Documentation Form

### General Information

|                         |                                    |                    |               |                  |           |
|-------------------------|------------------------------------|--------------------|---------------|------------------|-----------|
| <b>Project Name</b>     | McIntosh LF No. 3 Well Abandonment | <b>Inspector</b>   | Taylor Goble  | <b>Well Id.</b>  | GWC-4B    |
| <b>Project Number</b>   | I054-110                           | <b>Weather</b>     | Sunny         | <b>Sheet</b>     | 1 of 1    |
| <b>Drilling Company</b> | Cascade                            | <b>Temperature</b> | ~62 degrees F | <b>Started</b>   | 12/3/2020 |
| <b>Client Name</b>      | Southern Company                   | <b>Driller</b>     | Tommy Ardito  | <b>Completed</b> | 12/3/2020 |

### Well Construction Information

|                             |                       |                             |                     |                      |                 |
|-----------------------------|-----------------------|-----------------------------|---------------------|----------------------|-----------------|
| <b>Well Depth (ft btoc)</b> | 14.72'                | <b>Screen Type</b>          | Sch. 40 PVC         | <b>Grout Type</b>    | Portland Cement |
| <b>Well Casing Dia.</b>     | 2" L.F. 23'           | <b>Slot Size (in.)</b>      | 0.010" Machine slot | <b>End Cap/Sump</b>  | 4"              |
| <b>Casing Type</b>          | Sch. 40 PVC           | <b>Pack Type &amp; Size</b> | 20/30 quartz sand   | <b>Protective</b>    |                 |
| <b>Joint Type</b>           | Flush Threaded O-ring | <b>Seal Type</b>            | Bentonite           | <b>Casing</b>        | Steel           |
| <b>Well Screen Dia.</b>     | 2" L.F. 10'           |                             |                     | <b>Well Pad Size</b> | 4' x 4' x 4"    |

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft<sup>3</sup> = cubic feet, N/A = not applicable

### Abandonment Procedures and Volumes

Expected Grout Volume: 0.3 ft<sup>3</sup> Actual Grout Volume: 0.3 ft<sup>3</sup>

1. Tagged depth to bottom, as well as depth to water with an electronic water level indicator.
2. Removed protective casing and well housing materials.
3. Poured bentonite pellets in well to the top of the screen.
4. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
5. After adequate period of settling, location was topped off with additional grout as needed.
6. Well casing material disposed of on site at approved location. Well pad left in place (shared with GWC-4A).

#### Notes:

Original log denotes well as 18.0' btoc total depth, but was measured as 14.72' btoc shortly before abandonment. No obstructions or bridging noted in the well during well tagging.  
Well was dry shortly before abandonment.



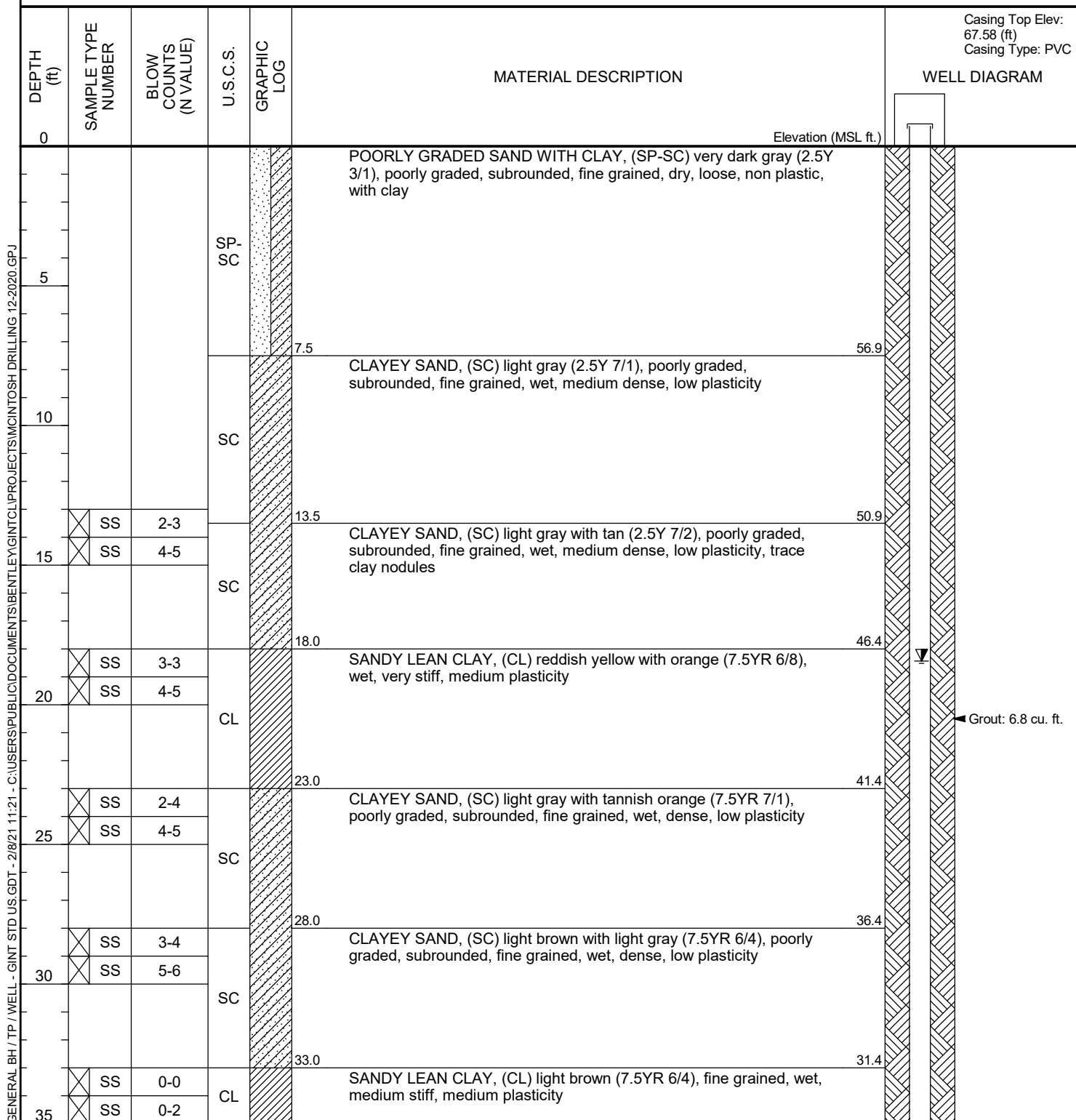


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Roswell, GA 30076  
770-594-5998

# WELL NUMBER GWA-1B

PAGE 1 OF 2

|                     |               |                      |                          |
|---------------------|---------------|----------------------|--------------------------|
| CLIENT              | Georgia Power | PROJECT NAME         | Taylor Goble             |
| PROJECT NUMBER      | I054-110      | PROJECT LOCATION     | Plant McIntosh           |
| DATE STARTED        | 12/4/20       | COMPLETED            | 12/4/20                  |
| DRILLING CONTRACTOR | Cascade       | GROUND ELEVATION     | 64.39 ft NAD83           |
| DRILLING METHOD     | Rotosonic     | HOLE SIZE            | 6 inch                   |
| LOGGED BY           | Taylor Goble  | CHECKED BY           |                          |
| NOTES               |               |                      |                          |
|                     |               | GROUND WATER LEVELS: |                          |
|                     |               | ▼ AFTER DRILLING     | 18.43 ft / Elev 45.96 ft |
|                     |               | NORTHING             | 852028.09                |
|                     |               | EASTING              | 954564.84                |



(Continued Next Page)



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# WELL NUMBER GWA-1B

PAGE 2 OF 2

CLIENT Georgia Power

PROJECT NAME Taylor Goble

PROJECT NUMBER I054-110

PROJECT LOCATION Plant McIntosh

| DEPTH<br>(ft) | SAMPLE TYPE<br>NUMBER | BLOW<br>COUNTS<br>(N VALUE) | U.S.C.S. | GRAPHIC<br>LOG | MATERIAL DESCRIPTION                                                                                                      | Elevation (MSL ft.) | WELL DIAGRAM |
|---------------|-----------------------|-----------------------------|----------|----------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| 35            |                       |                             |          |                |                                                                                                                           |                     |              |
|               |                       |                             | CL       |                | SANDY LEAN CLAY, (CL) light brown (7.5YR 6/4), fine grained, wet, medium stiff, medium plasticity ( <i>continued</i> )    |                     |              |
|               |                       |                             |          |                |                                                                                                                           | 38.0                |              |
|               |                       |                             |          |                |                                                                                                                           | 26.4                |              |
|               | SS                    | 2-2                         |          |                | SANDY LEAN CLAY, (CL) gray with light gray (7.5YR 5/1), fine to coarse grained, wet, loose, medium plasticity             |                     |              |
| 40            | SS                    | 2-3                         | CL       |                |                                                                                                                           |                     |              |
|               |                       |                             |          |                |                                                                                                                           | 43.0                |              |
|               |                       |                             |          |                |                                                                                                                           | 21.4                |              |
|               | SS                    | 3-2                         |          |                | SANDY LEAN CLAY, (CL) very dark gray (7.5YR 3/1), fine to coarse grained, wet, medium dense, medium plasticity, with silt |                     |              |
| 45            | SS                    | 4-18                        | CL       |                |                                                                                                                           |                     |              |
|               |                       |                             |          |                |                                                                                                                           | 48.0                |              |
|               |                       |                             |          |                |                                                                                                                           | 16.4                |              |
|               | SS                    | 5-8                         |          |                | CLAYEY SAND, (SC) very dark gray (7.5YR 3/1), fine grained, wet, loose, medium plasticity, with silt                      |                     |              |
| 50            | SS                    | 9-10                        | SC       |                |                                                                                                                           |                     |              |
|               |                       |                             |          |                |                                                                                                                           | 55.0                |              |
|               | SS                    | 2-6                         |          |                |                                                                                                                           |                     |              |
| 55            | SS                    | 12-16                       |          |                |                                                                                                                           | 9.4                 |              |

Bottom of borehole at 55.0 feet.

Bentonite Seal:  
0.33 cu. ft.

Filter Pack: 2.1  
cu. ft.

Screen Interval

GENERAL BH / TP / WELL - GINT STD US.GDT - 2/8/21 11:21 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\MCMINTOSH DRILLING 12-2020.GPJ



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# WELL NUMBER GWC-1A

PAGE 1 OF 2

CLIENT Georgia Power

PROJECT NAME Taylor Goble

PROJECT NUMBER I054-110

PROJECT LOCATION Plant McIntosh

DATE STARTED 12/8/20

COMPLETED 12/8/20

GROUND ELEVATION 64 ft NAD83

HOLE SIZE 6 inch

DRILLING CONTRACTOR Cascade

GROUND WATER LEVELS:

▼ AFTER DRILLING 17.81 ft / Elev 46.19 ft

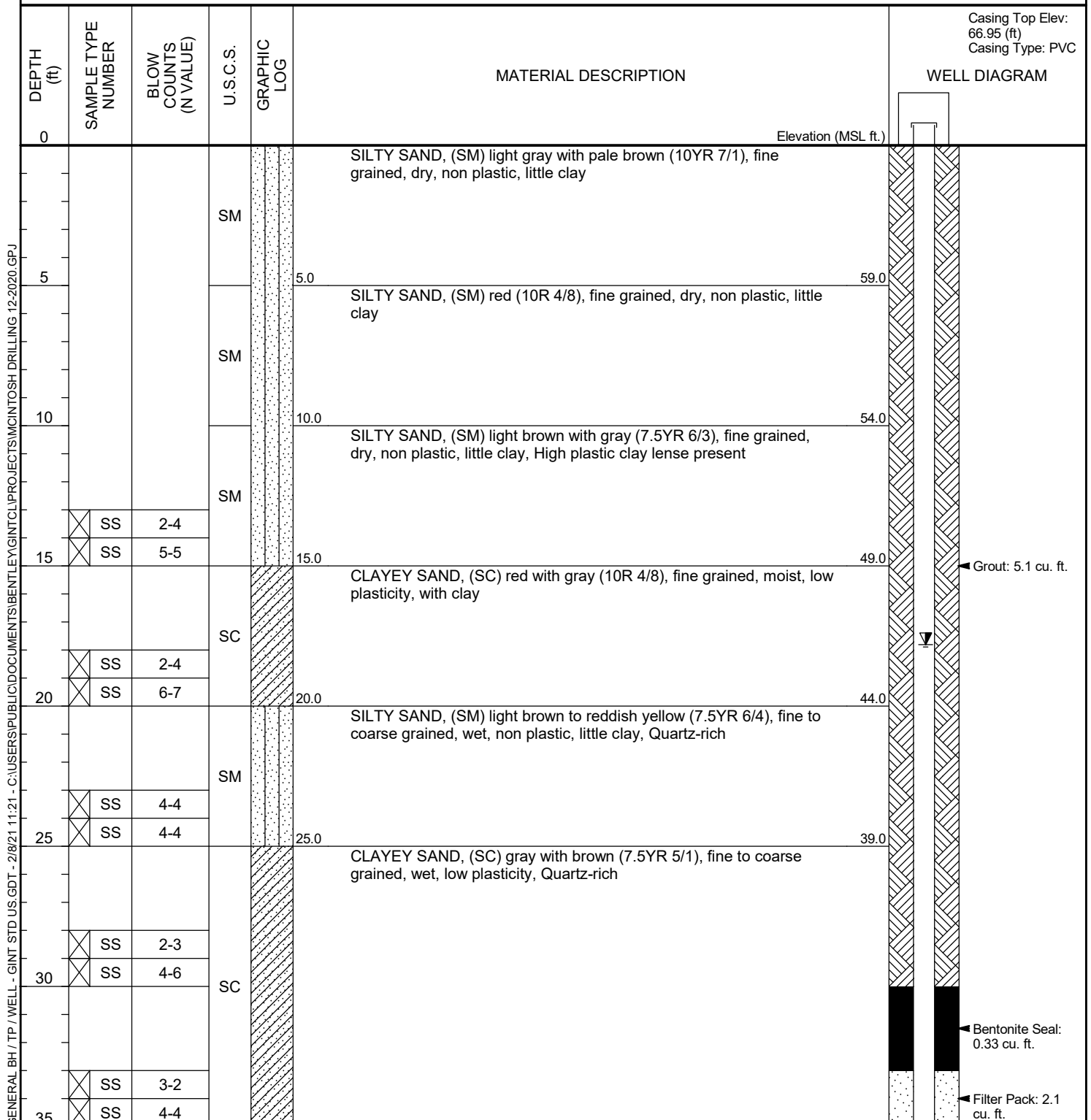
LOGGED BY Taylor Goble

CHECKED BY

NORTHING 852453.58

NOTES

EASTING 955300.47



(Continued Next Page)



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# WELL NUMBER GWC-1A

PAGE 2 OF 2

CLIENT Georgia Power

PROJECT NAME Taylor Goble

PROJECT NUMBER I054-110

PROJECT LOCATION Plant McIntosh

| DEPTH<br>(ft) | SAMPLE TYPE<br>NUMBER | BLOW<br>COUNTS<br>(N VALUE) | U.S.C.S. | GRAPHIC<br>LOG | MATERIAL DESCRIPTION                                                                                                | Elevation (MSL ft.) | WELL DIAGRAM    |
|---------------|-----------------------|-----------------------------|----------|----------------|---------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|
| 35            |                       |                             |          |                |                                                                                                                     |                     |                 |
|               |                       |                             | SC       |                | CLAYEY SAND, (SC) gray with brown (7.5YR 5/1), fine to coarse grained, wet, low plasticity, Quartz-rich (continued) | 40.0                |                 |
|               | SS                    | 1-1                         |          |                |                                                                                                                     |                     |                 |
| 40            | SS                    | 2-1                         |          |                |                                                                                                                     |                     |                 |
|               |                       |                             | SC       |                | CLAYEY SAND, (SC) light brown (7.5YR 6/3), coarse grained, wet, low plasticity, with fine to coarse gravel          | 24.0                | Screen Interval |
|               | SS                    | 2-2                         |          |                |                                                                                                                     |                     |                 |
| 45            | SS                    | 3-3                         |          |                |                                                                                                                     |                     |                 |
|               |                       |                             |          |                |                                                                                                                     | 19.0                |                 |

Bottom of borehole at 45.0 feet.



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# WELL NUMBER GWC-5A

PAGE 1 OF 2

CLIENT Georgia Power

PROJECT NAME Taylor Goble

PROJECT NUMBER I054-110

PROJECT LOCATION Plant McIntosh

DATE STARTED 12/9/20

COMPLETED 12/9/20

GROUND ELEVATION 65.64 ft NAD83 HOLE SIZE 6 inch

DRILLING CONTRACTOR Cascade

GROUND WATER LEVELS:

▼ AFTER DRILLING 20.15 ft / Elev 45.49 ft

DRILLING METHOD Rotasonic

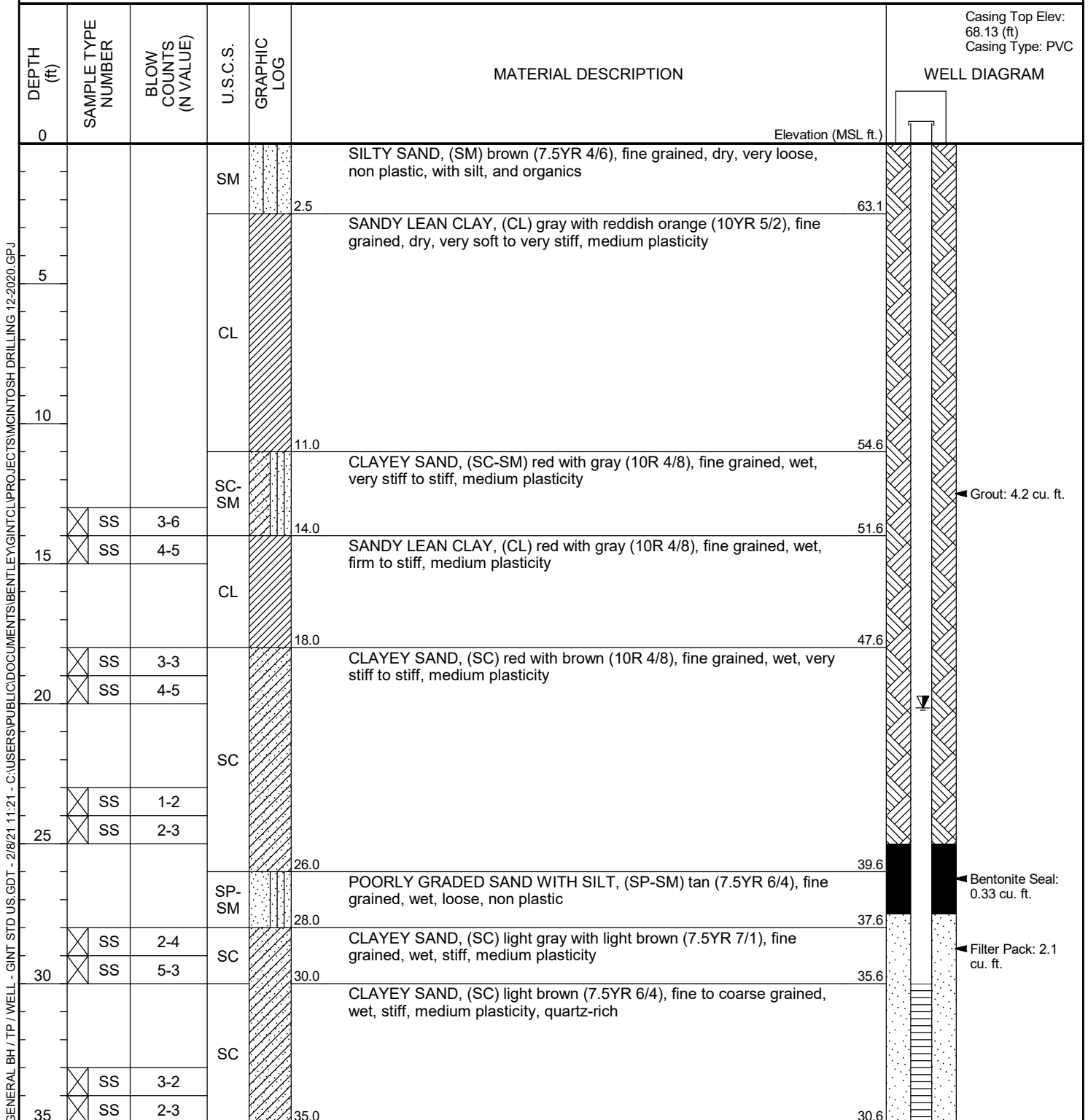
LOGGED BY Taylor Goble

CHECKED BY

NORTHING 852689.8

NOTES

EASTING 955477.18



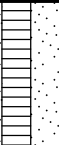
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PAGE 2 OF 2

**PROJECT LOCATION** Plant McIntosh

| DEPTH<br>(ft) | SAMPLE TYPE<br>NUMBER | BLOW<br>COUNTS<br>(N VALUE) | U.S.C.S. | GRAPHIC<br>LOG                                                                    | MATERIAL DESCRIPTION                                                                                                 | Elevation (MSL ft.) | WELL DIAGRAM                                                                                        |
|---------------|-----------------------|-----------------------------|----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------|
| 35            |                       |                             |          |                                                                                   |                                                                                                                      |                     |                                                                                                     |
|               |                       |                             | SC       |  | CLAYEY SAND, (SC) light brown (7.5YR 6/4), fine to coarse grained, wet, stiff, low plasticity, decrease clay content | 40.0                |  Screen Interval |
|               | SS                    | 1-6                         |          |                                                                                   |                                                                                                                      |                     |                                                                                                     |
|               | SS                    | 7-7                         |          |                                                                                   |                                                                                                                      |                     |                                                                                                     |
| 40            |                       |                             |          |                                                                                   |                                                                                                                      | 25.6                |                                                                                                     |

Bottom of borehole at 40.0 feet.

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# WELL NUMBER GWC-6A

PAGE 1 OF 2

CLIENT Georgia Power

PROJECT NAME Taylor Goble

PROJECT NUMBER I054-110

PROJECT LOCATION Plant McIntosh

DATE STARTED 12/7/20

COMPLETED 12/7/20

GROUND ELEVATION 65.66 ft NAD83 HOLE SIZE 6 inch

DRILLING CONTRACTOR Cascade

GROUND WATER LEVELS:

DRILLING METHOD Rotasonic

▼ AFTER DRILLING 22.55 ft / Elev 43.11 ft

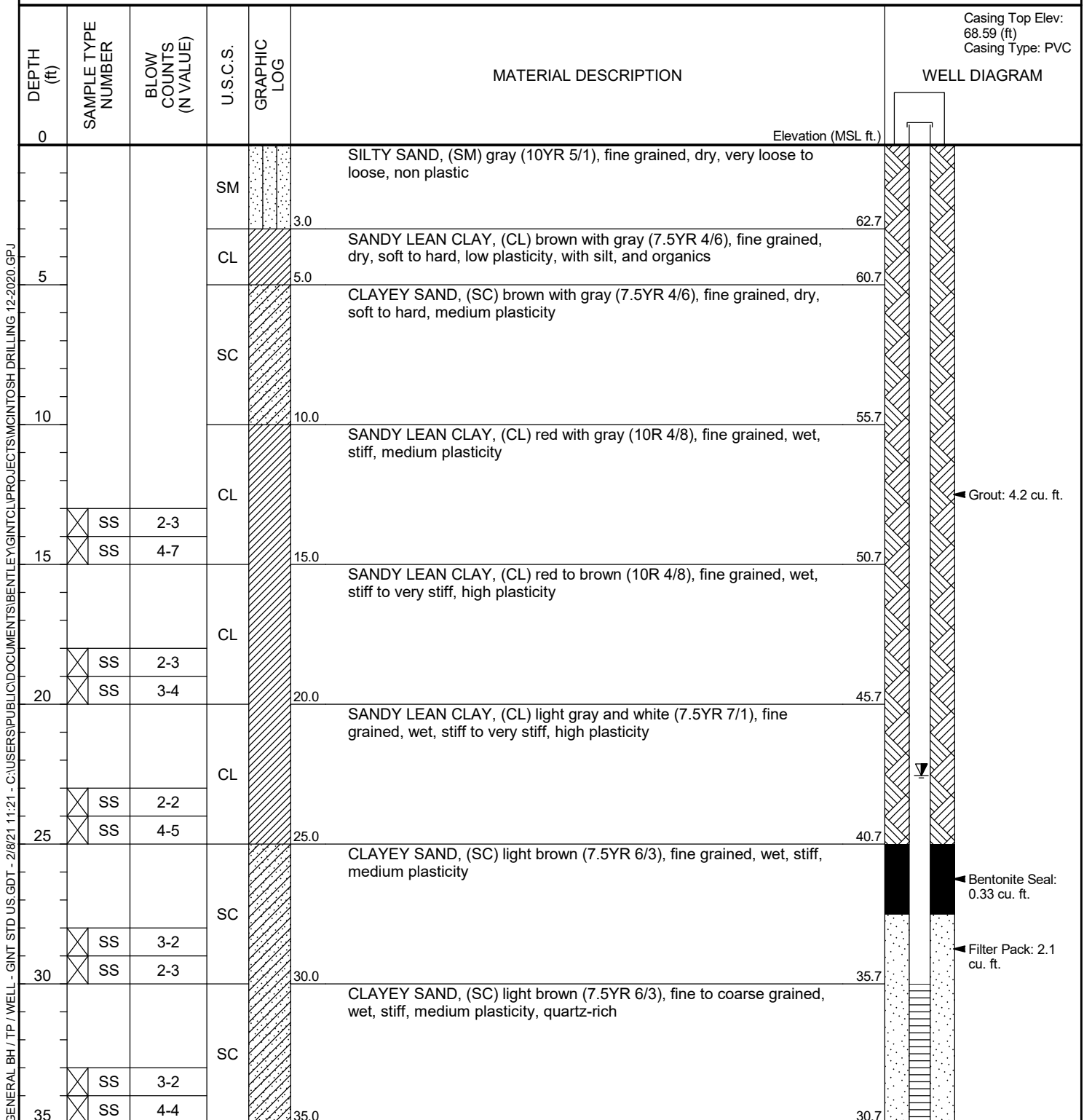
LOGGED BY Taylor Goble

CHECKED BY

NORTHING 852462.38

NOTES

EASTING 955046.58



(Continued Next Page)



PAGE 2 OF 2

**PROJECT LOCATION** Plant McIntosh

| DEPTH<br>(ft) | SAMPLE TYPE<br>NUMBER                                                                | BLOW<br>COUNTS<br>(N VALUE) | U.S.C.S. | GRAPHIC<br>LOG                                                                    | MATERIAL DESCRIPTION                                                                                                 | Elevation (MSL ft.) | WELL DIAGRAM                                                                                           |
|---------------|--------------------------------------------------------------------------------------|-----------------------------|----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------|
| 35            |                                                                                      |                             |          |                                                                                   |                                                                                                                      |                     |                                                                                                        |
|               |                                                                                      |                             | SC       |  | CLAYEY SAND, (SC) light brown (7.5YR 6/3), fine to coarse grained, wet, stiff, low plasticity, decrease clay content |                     | <br>Screen Interval |
|               |  SS | 4-2                         |          |                                                                                   |                                                                                                                      |                     |                                                                                                        |
| 40            |  SS | 2-5                         |          |                                                                                   |                                                                                                                      |                     |                                                                                                        |
|               |                                                                                      |                             |          | 40.0                                                                              |                                                                                                                      | 25.7                |                                                                                                        |

25.7

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## APPENDIX B

# LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

## ANALYTICAL REPORT

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

Laboratory Job ID: 180-111398-1

Client Project/Site: CCR - Plant McIntosh Ash Landfill #3  
Revision: 1

**For:**

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

Attn: Kristen N Jurinko



Authorized for release by:  
11/12/2020 12:03:30 PM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@Eurofinset.com](mailto:Shali.Brown@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

PA Lab ID: 02-00416





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## Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Job ID: 180-111398-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

### Narrative

#### Job Narrative 180-111398-1

#### Comments

111220 Revised report to add J qualifiers to B for the following samples: GWA-4 (180-111398-4), GWC-4A (-9), GWC-5 (-10), GWC-6 (-11), LF3-DUP-02 (-13), LF3-FB-01-09-21-20 (-14), and LF3-FB-02-09-22-20 (-15).  
This report replaces the report previously issued on 102720.

#### Receipt

The samples were received on 9/24/2020 9:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.8° C.

#### GC Semi VOA

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

#### Metals

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

#### Field Service / Mobile Lab

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

#### General Chemistry

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

# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

## Qualifiers

### HPLC/IC

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

### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

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

| Authority              | Program             | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ           | State               | 19-033-0              | 06-27-21        |
| California             | State               | 2891                  | 04-30-21        |
| Connecticut            | State               | PH-0688               | 09-30-20 *      |
| Florida                | NELAP               | E871008               | 06-30-21        |
| Georgia                | State               | PA 02-00416           | 04-30-21        |
| Illinois               | NELAP               | 004375                | 06-30-21        |
| Kansas                 | NELAP               | E-10350               | 01-31-21        |
| Kentucky (UST)         | State               | 162013                | 04-30-21        |
| Kentucky (WW)          | State               | KY98043               | 12-31-20        |
| Louisiana              | NELAP               | 04041                 | 06-30-21        |
| Maine                  | State               | PA00164               | 03-06-22        |
| Minnesota              | NELAP               | 042-999-482           | 12-31-20        |
| Nevada                 | State               | PA00164               | 07-31-21        |
| New Hampshire          | NELAP               | 2030                  | 04-05-21        |
| New Jersey             | NELAP               | PA005                 | 06-30-21        |
| New York               | NELAP               | 11182                 | 04-01-21        |
| North Carolina (WW/SW) | State               | 434                   | 11-01-20        |
| North Dakota           | State               | R-227                 | 04-30-21        |
| Oregon                 | NELAP               | PA-2151               | 02-06-21        |
| Pennsylvania           | NELAP               | 02-00416              | 04-30-21        |
| Rhode Island           | State               | LAO00362              | 12-31-20        |
| South Carolina         | State               | 89014                 | 04-30-21        |
| Texas                  | NELAP               | T104704528            | 03-31-21        |
| US Fish & Wildlife     | US Federal Programs | 058448                | 07-31-21        |
| USDA                   | Federal             | P-Soil-01             | 06-26-22        |
| USDA                   | US Federal Programs | P330-16-00211         | 06-26-22        |
| Utah                   | NELAP               | PA001462019-8         | 05-31-21        |
| Virginia               | NELAP               | 10043                 | 09-14-21        |
| West Virginia DEP      | State               | 142                   | 02-01-21        |
| Wisconsin              | State               | 998027800             | 08-31-21        |

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

Eurofins TestAmerica, Pittsburgh

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

| Lab Sample ID | Client Sample ID     | Matrix | Collected      | Received       | Asset ID |
|---------------|----------------------|--------|----------------|----------------|----------|
| 180-111398-1  | GWA-1A               | Water  | 09/21/20 16:28 | 09/24/20 09:15 |          |
| 180-111398-2  | GWA-2B               | Water  | 09/22/20 09:42 | 09/24/20 09:15 |          |
| 180-111398-3  | GWA-3A               | Water  | 09/21/20 15:34 | 09/24/20 09:15 |          |
| 180-111398-4  | GWA-4                | Water  | 09/21/20 16:51 | 09/24/20 09:15 |          |
| 180-111398-5  | GWA-5                | Water  | 09/22/20 09:58 | 09/24/20 09:15 |          |
| 180-111398-6  | GWA-7A               | Water  | 09/21/20 15:29 | 09/24/20 09:15 |          |
| 180-111398-7  | GWC-1                | Water  | 09/22/20 14:06 | 09/24/20 09:15 |          |
| 180-111398-8  | GWC-2                | Water  | 09/22/20 13:43 | 09/24/20 09:15 |          |
| 180-111398-9  | GWC-4A               | Water  | 09/22/20 12:27 | 09/24/20 09:15 |          |
| 180-111398-10 | GWC-5                | Water  | 09/22/20 11:07 | 09/24/20 09:15 |          |
| 180-111398-11 | GWC-6                | Water  | 09/22/20 12:55 | 09/24/20 09:15 |          |
| 180-111398-12 | LF3-DUP-01           | Water  | 09/21/20 00:00 | 09/24/20 09:15 |          |
| 180-111398-13 | LF3-DUP-02           | Water  | 09/22/20 00:00 | 09/24/20 09:15 |          |
| 180-111398-14 | LF3-FB-01-09-21-20   | Water  | 09/21/20 15:42 | 09/24/20 09:15 |          |
| 180-111398-15 | LF3-FB-02-09-22-20   | Water  | 09/22/20 10:00 | 09/24/20 09:15 |          |
| 180-111398-16 | LF3-FERB-01-09-21-20 | Water  | 09/21/20 16:45 | 09/24/20 09:15 |          |
| 180-111398-17 | LF3-FERB-02-09-22-20 | Water  | 09/22/20 12:45 | 09/24/20 09:15 |          |

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

| Method         | Method Description                                 | Protocol | Laboratory |
|----------------|----------------------------------------------------|----------|------------|
| EPA 300.0 R2.1 | Anions, Ion Chromatography                         | EPA      | TAL PIT    |
| EPA 6020B      | Metals (ICP/MS)                                    | SW846    | TAL PIT    |
| SM 2540C       | Solids, Total Dissolved (TDS)                      | SM       | TAL PIT    |
| Field Sampling | Field Sampling                                     | EPA      | TAL PIT    |
| 3005A          | Preparation, Total Recoverable or Dissolved Metals | SW846    | TAL PIT    |

## Protocol References:

EPA = US Environmental Protection Agency

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

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

## Laboratory References:

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



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWA-1A**

**Date Collected: 09/21/20 16:28**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 08:17       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 18:56       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 19:26       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/21/20 16:28       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWA-2B**

**Date Collected: 09/22/20 09:42**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 09:04       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:14       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 19:30       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 09:42       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWA-3A**

**Date Collected: 09/21/20 15:34**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 09:20       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:17       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 19:48       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWA-3A**

**Date Collected: 09/21/20 15:34**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 2540C               |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
| Total/NA  | Analysis   | Field Sampling         |     | 1          |                |              | 333009       | 09/21/20 15:34       | AGJ     | TAL PIT |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWA-4**

**Date Collected: 09/21/20 16:51**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-4**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 09:36       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:21       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 19:51       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/21/20 16:51       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWA-5**

**Date Collected: 09/22/20 09:58**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-5**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 09:52       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:25       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 19:55       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 09:58       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWA-7A**

**Date Collected: 09/21/20 15:29**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-6**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 10:08       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:35       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:05       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/21/20 15:29       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWC-1**

**Date Collected: 09/22/20 14:06**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-7**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 10:23       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:39       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:09       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 14:06       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWC-2**

**Date Collected: 09/22/20 13:43**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-8**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332056       | 10/02/20 12:20       | EPS     | TAL PIT |
|                   |            | Instrument ID: CHIC2100A |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:42       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:13       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWC-2**

**Date Collected: 09/22/20 13:43**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | SM 2540C               |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
| Total/NA  | Analysis   | Field Sampling         |     | 1          |                |              | 333009       | 09/22/20 13:43       | AGJ     | TAL PIT |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWC-4A**

**Date Collected: 09/22/20 12:27**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-9**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332057       | 10/02/20 21:59       | EPS     | TAL PIT |
|                   |            | Instrument ID: INTEGRION |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:46       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:16       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331210       | 09/25/20 06:45       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 12:27       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: GWC-5**

**Date Collected: 09/22/20 11:07**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-10**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332057       | 10/02/20 23:02       | EPS     | TAL PIT |
|                   |            | Instrument ID: INTEGRION |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:49       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:20       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 11:07       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWC-6**

**Date Collected: 09/22/20 12:55**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-11**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332057       | 10/02/20 23:23       | EPS     | TAL PIT |
|                   |            | Instrument ID: INTEGRION |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:53       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:23       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling           |     | 1          |                |              | 333009       | 09/22/20 12:55       | AGJ     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: LF3-DUP-01**

**Date Collected: 09/21/20 00:00**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-12**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332057       | 10/02/20 23:43       | EPS     | TAL PIT |
|                   |            | Instrument ID: INTEGRION |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 19:57       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:27       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

**Client Sample ID: LF3-DUP-02**

**Date Collected: 09/22/20 00:00**

**Date Received: 09/24/20 09:15**

**Lab Sample ID: 180-111398-13**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | EPA 300.0 R2.1           |     | 1          |                |              | 332057       | 10/03/20 00:46       | EPS     | TAL PIT |
|                   |            | Instrument ID: INTEGRION |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334010       | 10/17/20 20:00       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                    |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis   | EPA 6020B                |     | 1          |                |              | 334457       | 10/22/20 20:30       | RSK     | TAL PIT |
|                   |            | Instrument ID: A         |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | SM 2540C                 |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   |            | Instrument ID: NOEQUIP   |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: LF3-FB-01-09-21-20**

**Lab Sample ID: 180-111398-14**

**Date Collected: 09/21/20 15:42**

**Matrix: Water**

**Date Received: 09/24/20 09:15**

| Prep Type         | Batch Type               | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis                 | EPA 300.0 R2.1 |     | 1          |                |              | 332057       | 10/03/20 01:07       | EPS     | TAL PIT |
|                   | Instrument ID: INTEGRION |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334010       | 10/17/20 20:04       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334457       | 10/22/20 20:34       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis                 | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   | Instrument ID: NOEQUIP   |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: LF3-FB-02-09-22-20**

**Lab Sample ID: 180-111398-15**

**Date Collected: 09/22/20 10:00**

**Matrix: Water**

**Date Received: 09/24/20 09:15**

| Prep Type         | Batch Type               | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis                 | EPA 300.0 R2.1 |     | 1          |                |              | 332057       | 10/03/20 01:28       | EPS     | TAL PIT |
|                   | Instrument ID: INTEGRION |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334010       | 10/17/20 20:07       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334457       | 10/22/20 20:40       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis                 | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   | Instrument ID: NOEQUIP   |                |     |            |                |              |              |                      |         |         |

**Client Sample ID: LF3-FERB-01-09-21-20**

**Lab Sample ID: 180-111398-16**

**Date Collected: 09/21/20 16:45**

**Matrix: Water**

**Date Received: 09/24/20 09:15**

| Prep Type         | Batch Type               | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis                 | EPA 300.0 R2.1 |     | 1          |                |              | 332057       | 10/03/20 01:49       | EPS     | TAL PIT |
|                   | Instrument ID: INTEGRION |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334010       | 10/17/20 20:18       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334457       | 10/22/20 20:50       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis                 | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   | Instrument ID: NOEQUIP   |                |     |            |                |              |              |                      |         |         |

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: LF3-FERB-02-09-22-20**

**Lab Sample ID: 180-111398-17**

**Date Collected: 09/22/20 12:45**

**Matrix: Water**

**Date Received: 09/24/20 09:15**

| Prep Type         | Batch Type               | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis                 | EPA 300.0 R2.1 |     | 1          |                |              | 332057       | 10/03/20 02:09       | EPS     | TAL PIT |
|                   | Instrument ID: INTEGRION |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 332471       | 10/06/20 13:47       | TJO     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334010       | 10/17/20 20:22       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep                     | 3005A          |     |            | 50 mL          | 50 mL        | 334180       | 10/21/20 09:34       | KHM     | TAL PIT |
| Total Recoverable | Analysis                 | EPA 6020B      |     | 1          |                |              | 334457       | 10/22/20 20:54       | RSK     | TAL PIT |
|                   | Instrument ID: A         |                |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis                 | SM 2540C       |     | 1          | 100 mL         | 100 mL       | 331211       | 09/25/20 06:48       | AVS     | TAL PIT |
|                   | Instrument ID: NOEQUIP   |                |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

KHM = Kyle Mucroski

TJO = Tyler Oliver

Batch Type: Analysis

AGJ = Andy Johnson

AVS = Abbey Smith

EPS = Evan Scheuer

RSK = Robert Kurtz

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-1A

Lab Sample ID: 180-111398-1

Date Collected: 09/21/20 16:28

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 8.1    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 08:17 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 08:17 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 08:17 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.023    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Beryllium | 0.00020  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Boron     | 0.11     |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Calcium   | 1.8      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Chromium  | 0.0049   |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Cobalt    | 0.00030  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:26 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |
| Zinc      | <0.0032  |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:56 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 31     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.95   |           |    |     | SU   |   |          | 09/21/20 16:28 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-2B

Lab Sample ID: 180-111398-2

Date Collected: 09/22/20 09:42

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 8.0    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 09:04 | 1       |
| Fluoride | 0.039  | J         | 0.10 | 0.026 | mg/L |   |          | 10/02/20 09:04 | 1       |
| Sulfate  | 52     |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 09:04 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.049    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Beryllium | 0.00042  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Boron     | 0.73     |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Calcium   | 16       |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Cobalt    | <0.00013 |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Copper    | 0.00096  | J         | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:30 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |
| Zinc      | 0.0066   |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:14 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 110    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 5.83   |           |    |     | SU   |   |          | 09/22/20 09:42 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-3A

Lab Sample ID: 180-111398-3

Date Collected: 09/21/20 15:34

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 19     |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 09:20 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 09:20 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 09:20 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.083    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Beryllium | 0.00054  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Boron     | 0.11     |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Calcium   | 3.1      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Cobalt    | 0.0016   | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:48 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |
| Zinc      | 0.0055   |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:17 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 61     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.69   |           |    |     | SU   |   |          | 09/21/20 15:34 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-4

Lab Sample ID: 180-111398-4

Date Collected: 09/21/20 16:51

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 5.4    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 09:36 | 1       |
| Fluoride | 0.060  | J         | 0.10 | 0.026 | mg/L |   |          | 10/02/20 09:36 | 1       |
| Sulfate  | 5.0    |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 09:36 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.052    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Boron     | 0.073    | J         | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Calcium   | 1.4      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Cobalt    | 0.00059  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:51 | 1       |
| Lead      | 0.00025  | J         | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Vanadium  | 0.0012   |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |
| Zinc      | 0.013    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:21 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 31     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.60   |           |    |     | SU   |   |          | 09/21/20 16:51 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-5

Lab Sample ID: 180-111398-5

Date Collected: 09/22/20 09:58

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 6.3    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 09:52 | 1       |
| Fluoride | 0.049  | J         | 0.10 | 0.026 | mg/L |   |          | 10/02/20 09:52 | 1       |
| Sulfate  | 12     |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 09:52 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.078    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Boron     | 0.097    |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Calcium   | 2.9      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Chromium  | 0.0017   | J         | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Cobalt    | 0.00064  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Copper    | 0.0013   | J         | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:55 | 1       |
| Lead      | 0.0012   |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Vanadium  | 0.0056   |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |
| Zinc      | 0.039    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:25 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 53     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.99   |           |    |     | SU   |   |          | 09/22/20 09:58 | 1       |



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWA-7A

Lab Sample ID: 180-111398-6

Date Collected: 09/21/20 15:29

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 6.5    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 10:08 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 10:08 | 1       |
| Sulfate  | 49     |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 10:08 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.11     |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Boron     | 0.61     |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Calcium   | 13       |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Cobalt    | 0.0025   |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Copper    | 0.0018   | J         | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:05 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |
| Zinc      | 0.0070   |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:35 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 130    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 5.35   |           |    |     | SU   |   |          | 09/21/20 15:29 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWC-1

Lab Sample ID: 180-111398-7

Date Collected: 09/22/20 14:06

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 6.9    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 10:23 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 10:23 | 1       |
| Sulfate  | 0.63   | J         | 1.0  | 0.38  | mg/L |   |          | 10/02/20 10:23 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.022    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Boron     | 0.098    |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Calcium   | 0.21     | J         | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Chromium  | 0.0017   | J         | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Cobalt    | 0.00021  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:09 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |
| Zinc      | <0.0032  |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:39 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.66   |           |    |     | SU   |   |          | 09/22/20 14:06 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWC-2

Lab Sample ID: 180-111398-8

Date Collected: 09/22/20 13:43

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 5.4    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 12:20 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 12:20 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 12:20 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.061    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Beryllium | 0.00025  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Boron     | 0.083    |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Calcium   | 2.1      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Chromium  | 0.0036   |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Cobalt    | 0.00092  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:13 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |
| Zinc      | 0.029    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:42 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 30     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 5.04   |           |    |     | SU   |   |          | 09/22/20 13:43 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: GWC-4A

Lab Sample ID: 180-111398-9

Date Collected: 09/22/20 12:27

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11     |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 21:59 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 21:59 | 1       |
| Sulfate  | 0.76   | J         | 1.0  | 0.38  | mg/L |   |          | 10/02/20 21:59 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.031    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Boron     | 0.053    | J         | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Calcium   | 0.51     |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Cobalt    | 0.00042  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:16 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |
| Zinc      | 0.017    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:46 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 36     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.92   |           |    |     | SU   |   |          | 09/22/20 12:27 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-111398-10**

Date Collected: 09/22/20 11:07

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 8.3    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 23:02 | 1       |
| Fluoride | 0.10   |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 23:02 | 1       |
| Sulfate  | 4.3    |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 23:02 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.51     |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Beryllium | 0.0011   | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Boron     | 0.045    | J B       | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Calcium   | 8.0      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Cobalt    | 0.011    |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:20 | 1       |
| Lead      | 0.00013  | J         | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Vanadium  | 0.0015   |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |
| Zinc      | 0.037    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:49 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 440    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 5.87   |           |    |     | SU   |   |          | 09/22/20 11:07 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

**Client Sample ID: GWC-6**

**Lab Sample ID: 180-111398-11**

**Date Collected: 09/22/20 12:55**

**Matrix: Water**

**Date Received: 09/24/20 09:15**

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 7.6    |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 23:23 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/02/20 23:23 | 1       |
| Sulfate  | 0.59   | J         | 1.0  | 0.38  | mg/L |   |          | 10/02/20 23:23 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.051    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Beryllium | 0.00021  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Boron     | 0.048    | J B       | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Calcium   | 1.9      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Cobalt    | 0.00058  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:23 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Vanadium  | 0.0011   |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |
| Zinc      | 0.0053   |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:53 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 30     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

## Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH      | 4.73   |           |    |     | SU   |   |          | 09/22/20 12:55 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-DUP-01

Lab Sample ID: 180-111398-12

Date Collected: 09/21/20 00:00

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 21     |           | 1.0  | 0.32  | mg/L |   |          | 10/02/20 23:43 | 1       |
| Fluoride | 0.032  | J         | 0.10 | 0.026 | mg/L |   |          | 10/02/20 23:43 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/02/20 23:43 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.086    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Beryllium | 0.00045  | J         | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Boron     | 0.080    | B         | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Calcium   | 3.2      |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Cobalt    | 0.0016   | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:27 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |
| Zinc      | 0.0067   |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 19:57 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 65     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-DUP-02

Lab Sample ID: 180-111398-13

Date Collected: 09/22/20 00:00

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 7.4    |           | 1.0  | 0.32  | mg/L |   |          | 10/03/20 00:46 | 1       |
| Fluoride | 0.028  | J         | 0.10 | 0.026 | mg/L |   |          | 10/03/20 00:46 | 1       |
| Sulfate  | 0.38   | J         | 1.0  | 0.38  | mg/L |   |          | 10/03/20 00:46 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | 0.022    |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Boron     | 0.063    | J B       | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Calcium   | 0.19     | J         | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Cobalt    | 0.00023  | J         | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:30 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |
| Zinc      | 0.0033   | J         | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:00 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 40     |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-FB-01-09-21-20

Lab Sample ID: 180-111398-14

Date Collected: 09/21/20 15:42

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32  |           | 1.0  | 0.32  | mg/L |   |          | 10/03/20 01:07 | 1       |
| Fluoride | 0.031  | J         | 0.10 | 0.026 | mg/L |   |          | 10/03/20 01:07 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/03/20 01:07 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | <0.0016  |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Boron     | 0.040    | J B       | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Calcium   | <0.13    |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Cobalt    | <0.00013 |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:34 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |
| Zinc      | <0.0032  |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:04 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-FB-02-09-22-20

Lab Sample ID: 180-111398-15

Date Collected: 09/22/20 10:00

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32  |           | 1.0  | 0.32  | mg/L |   |          | 10/03/20 01:28 | 1       |
| Fluoride | 0.028  | J         | 0.10 | 0.026 | mg/L |   |          | 10/03/20 01:28 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/03/20 01:28 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | <0.0016  |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Boron     | 0.039    | J B       | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Calcium   | <0.13    |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Cobalt    | <0.00013 |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:40 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |
| Zinc      | <0.0032  |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:07 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-FERB-01-09-21-20

Lab Sample ID: 180-111398-16

Date Collected: 09/21/20 16:45

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32  |           | 1.0  | 0.32  | mg/L |   |          | 10/03/20 01:49 | 1       |
| Fluoride | 0.030  | J         | 0.10 | 0.026 | mg/L |   |          | 10/03/20 01:49 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/03/20 01:49 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | <0.0016  |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Boron     | <0.039   |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Calcium   | <0.13    |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Cobalt    | <0.00013 |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:50 | 1       |
| Lead      | <0.00013 |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |
| Zinc      | <0.0032  |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:18 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

Client Sample ID: LF3-FERB-02-09-22-20

Lab Sample ID: 180-111398-17

Date Collected: 09/22/20 12:45

Matrix: Water

Date Received: 09/24/20 09:15

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

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32  |           | 1.0  | 0.32  | mg/L |   |          | 10/03/20 02:09 | 1       |
| Fluoride | <0.026 |           | 0.10 | 0.026 | mg/L |   |          | 10/03/20 02:09 | 1       |
| Sulfate  | <0.38  |           | 1.0  | 0.38  | mg/L |   |          | 10/03/20 02:09 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | <0.0016  |           | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Beryllium | <0.00018 |           | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Boron     | <0.039   |           | 0.080  | 0.039   | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Calcium   | <0.13    |           | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Chromium  | <0.0015  |           | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Cobalt    | <0.00013 |           | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Copper    | <0.00063 |           | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 20:54 | 1       |
| Lead      | 0.0013   |           | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Vanadium  | <0.00099 |           | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |
| Zinc      | 0.026    |           | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 20:22 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

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

Lab Sample ID: MB 180-332056/6

Matrix: Water

Analysis Batch: 332056

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32     |              | 1.0  | 0.32  | mg/L |   |          | 10/02/20 05:20 | 1       |
| Fluoride | <0.026    |              | 0.10 | 0.026 | mg/L |   |          | 10/02/20 05:20 | 1       |
| Sulfate  | <0.38     |              | 1.0  | 0.38  | mg/L |   |          | 10/02/20 05:20 | 1       |

Lab Sample ID: LCS 180-332056/5

Matrix: Water

Analysis Batch: 332056

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 48.8       |               | mg/L |   | 98   | 90 - 110     |
| Fluoride | 2.50        | 2.45       |               | mg/L |   | 98   | 90 - 110     |
| Sulfate  | 50.0        | 49.3       |               | mg/L |   | 99   | 90 - 110     |

Lab Sample ID: 180-111398-1 MS

Matrix: Water

Analysis Batch: 332056

Client Sample ID: GWA-1A

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 8.1           |                  | 50.0        | 54.2      |              | mg/L |   | 92   | 90 - 110     |
| Fluoride | <0.026        |                  | 2.50        | 2.30      |              | mg/L |   | 92   | 90 - 110     |
| Sulfate  | <0.38         |                  | 50.0        | 47.3      |              | mg/L |   | 95   | 90 - 110     |

Lab Sample ID: 180-111398-1 MSD

Matrix: Water

Analysis Batch: 332056

Client Sample ID: GWA-1A

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 8.1           |                  | 50.0        | 54.0       |               | mg/L |   | 92   | 90 - 110     | 0   | 20        |
| Fluoride | <0.026        |                  | 2.50        | 2.29       |               | mg/L |   | 92   | 90 - 110     | 1   | 20        |
| Sulfate  | <0.38         |                  | 50.0        | 47.4       |               | mg/L |   | 95   | 90 - 110     | 0   | 20        |

Lab Sample ID: 180-111398-8 MS

Matrix: Water

Analysis Batch: 332056

Client Sample ID: GWC-2

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 5.4           |                  | 50.0        | 52.9      |              | mg/L |   | 95   | 90 - 110     |
| Fluoride | <0.026        |                  | 2.50        | 2.34      |              | mg/L |   | 94   | 90 - 110     |
| Sulfate  | <0.38         |                  | 50.0        | 49.3      |              | mg/L |   | 99   | 90 - 110     |

Lab Sample ID: 180-111398-8 MSD

Matrix: Water

Analysis Batch: 332056

Client Sample ID: GWC-2

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 5.4           |                  | 50.0        | 53.8       |               | mg/L |   | 97   | 90 - 110     | 2   | 20        |
| Fluoride | <0.026        |                  | 2.50        | 2.35       |               | mg/L |   | 94   | 90 - 110     | 1   | 20        |
| Sulfate  | <0.38         |                  | 50.0        | 49.8       |               | mg/L |   | 100  | 90 - 110     | 1   | 20        |

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

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

Lab Sample ID: MB 180-332057/33

Matrix: Water

Analysis Batch: 332057

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.32     |              | 1.0  | 0.32  | mg/L |   |          | 10/02/20 21:38 | 1       |
| Fluoride | <0.026    |              | 0.10 | 0.026 | mg/L |   |          | 10/02/20 21:38 | 1       |
| Sulfate  | <0.38     |              | 1.0  | 0.38  | mg/L |   |          | 10/02/20 21:38 | 1       |

Lab Sample ID: LCS 180-332057/32

Matrix: Water

Analysis Batch: 332057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 48.9       |               | mg/L |   | 98   | 90 - 110     |
| Fluoride | 2.50        | 2.40       |               | mg/L |   | 96   | 90 - 110     |
| Sulfate  | 50.0        | 47.3       |               | mg/L |   | 95   | 90 - 110     |

Lab Sample ID: 180-111398-9 MS

Matrix: Water

Analysis Batch: 332057

Client Sample ID: GWC-4A

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 11            |                  | 50.0        | 57.5      |              | mg/L |   | 93   | 90 - 110     |
| Fluoride | <0.026        |                  | 2.50        | 2.41      |              | mg/L |   | 96   | 90 - 110     |
| Sulfate  | 0.76          | J                | 50.0        | 47.8      |              | mg/L |   | 94   | 90 - 110     |

Lab Sample ID: 180-111398-9 MSD

Matrix: Water

Analysis Batch: 332057

Client Sample ID: GWC-4A

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 11            |                  | 50.0        | 57.8       |               | mg/L |   | 94   | 90 - 110     | 1   | 20        |
| Fluoride | <0.026        |                  | 2.50        | 2.43       |               | mg/L |   | 97   | 90 - 110     | 1   | 20        |
| Sulfate  | 0.76          | J                | 50.0        | 48.1       |               | mg/L |   | 95   | 90 - 110     | 1   | 20        |

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

Lab Sample ID: MB 180-332471/1-A

Matrix: Water

Analysis Batch: 334010

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte   | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Barium    | <0.0016   |              | 0.010  | 0.0016  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Beryllium | <0.00018  |              | 0.0025 | 0.00018 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Calcium   | <0.13     |              | 0.50   | 0.13    | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Chromium  | <0.0015   |              | 0.0020 | 0.0015  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Cobalt    | <0.00013  |              | 0.0025 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Lead      | <0.00013  |              | 0.0010 | 0.00013 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Vanadium  | <0.00099  |              | 0.0010 | 0.00099 | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |
| Zinc      | <0.0032   |              | 0.0050 | 0.0032  | mg/L |   | 10/06/20 13:47 | 10/17/20 18:35 | 1       |

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

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

Lab Sample ID: MB 180-332471/1-A

Matrix: Water

Analysis Batch: 334271

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte | MB Result | MB Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Boron   | <0.039    |              | 0.080 | 0.039 | mg/L |   | 10/06/20 13:47 | 10/21/20 14:07 | 1       |

Lab Sample ID: LCS 180-332471/2-A

Matrix: Water

Analysis Batch: 334010

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Barium    | 1.00        | 1.00       |               | mg/L |   | 100  | 80 - 120     |
| Beryllium | 0.500       | 0.440      |               | mg/L |   | 88   | 80 - 120     |
| Calcium   | 25.0        | 27.0       |               | mg/L |   | 108  | 80 - 120     |
| Chromium  | 0.500       | 0.460      |               | mg/L |   | 92   | 80 - 120     |
| Cobalt    | 0.500       | 0.486      |               | mg/L |   | 97   | 80 - 120     |
| Lead      | 0.500       | 0.471      |               | mg/L |   | 94   | 80 - 120     |
| Vanadium  | 0.500       | 0.463      |               | mg/L |   | 93   | 80 - 120     |
| Zinc      | 0.250       | 0.239      |               | mg/L |   | 95   | 80 - 120     |

Lab Sample ID: LCS 180-332471/2-A

Matrix: Water

Analysis Batch: 334271

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Boron   | 1.25        | 1.26       |               | mg/L |   | 101  | 80 - 120     |

Lab Sample ID: 180-111398-1 MS

Matrix: Water

Analysis Batch: 334010

Client Sample ID: GWA-1A

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Barium    | 0.023         |                  | 1.00        | 1.04      |              | mg/L |   | 102  | 75 - 125     |
| Beryllium | 0.00020       | J                | 0.500       | 0.468     |              | mg/L |   | 94   | 75 - 125     |
| Boron     | 0.11          |                  | 1.25        | 1.24      |              | mg/L |   | 91   | 75 - 125     |
| Calcium   | 1.8           |                  | 25.0        | 29.3      |              | mg/L |   | 110  | 75 - 125     |
| Chromium  | 0.0049        |                  | 0.500       | 0.484     |              | mg/L |   | 96   | 75 - 125     |
| Cobalt    | 0.00030       | J                | 0.500       | 0.484     |              | mg/L |   | 97   | 75 - 125     |
| Lead      | <0.00013      |                  | 0.500       | 0.480     |              | mg/L |   | 96   | 75 - 125     |
| Vanadium  | <0.00099      |                  | 0.500       | 0.483     |              | mg/L |   | 97   | 75 - 125     |
| Zinc      | <0.0032       |                  | 0.250       | 0.244     |              | mg/L |   | 98   | 75 - 125     |

Lab Sample ID: 180-111398-1 MSD

Matrix: Water

Analysis Batch: 334010

Client Sample ID: GWA-1A

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Barium    | 0.023         |                  | 1.00        | 1.05       |               | mg/L |   | 102  | 75 - 125     | 0   | 20        |
| Beryllium | 0.00020       | J                | 0.500       | 0.467      |               | mg/L |   | 93   | 75 - 125     | 0   | 20        |
| Boron     | 0.11          |                  | 1.25        | 1.28       |               | mg/L |   | 94   | 75 - 125     | 3   | 20        |
| Calcium   | 1.8           |                  | 25.0        | 28.7       |               | mg/L |   | 107  | 75 - 125     | 2   | 20        |
| Chromium  | 0.0049        |                  | 0.500       | 0.469      |               | mg/L |   | 93   | 75 - 125     | 3   | 20        |
| Cobalt    | 0.00030       | J                | 0.500       | 0.481      |               | mg/L |   | 96   | 75 - 125     | 1   | 20        |

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

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

Lab Sample ID: 180-111398-1 MSD

Matrix: Water

Analysis Batch: 334010

Client Sample ID: GWA-1A

Prep Type: Total Recoverable

Prep Batch: 332471

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Lead     | <0.00013      |                  | 0.500       | 0.478      |               | mg/L |   | 96   | 75 - 125     | 0   | 20        |
| Vanadium | <0.00099      |                  | 0.500       | 0.472      |               | mg/L |   | 94   | 75 - 125     | 2   | 20        |
| Zinc     | <0.0032       |                  | 0.250       | 0.238      |               | mg/L |   | 95   | 75 - 125     | 2   | 20        |

Lab Sample ID: MB 180-334180/1-A

Matrix: Water

Analysis Batch: 334457

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 334180

| Analyte | MB Result | MB Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Copper  | <0.00063  |              | 0.0020 | 0.00063 | mg/L |   | 10/21/20 09:34 | 10/22/20 19:08 | 1       |

Lab Sample ID: LCS 180-334180/2-A

Matrix: Water

Analysis Batch: 334457

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 334180

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Copper  | 0.500       | 0.511      |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: 180-111398-2 MS

Matrix: Water

Analysis Batch: 334457

Client Sample ID: GWA-2B

Prep Type: Total Recoverable

Prep Batch: 334180

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Copper  | 0.00096       | J                | 0.500       | 0.498     |              | mg/L |   | 99   | 75 - 125     |

Lab Sample ID: 180-111398-2 MSD

Matrix: Water

Analysis Batch: 334457

Client Sample ID: GWA-2B

Prep Type: Total Recoverable

Prep Batch: 334180

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Copper  | 0.00096       | J                | 0.500       | 0.487      |               | mg/L |   | 97   | 75 - 125     | 2   | 20        |

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

Lab Sample ID: MB 180-331210/2

Matrix: Water

Analysis Batch: 331210

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10       |              | 10 | 10  | mg/L |   |          | 09/25/20 06:45 | 1       |

Lab Sample ID: LCS 180-331210/1

Matrix: Water

Analysis Batch: 331210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 632         | 622        |               | mg/L |   | 98   | 80 - 120     |

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

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

Lab Sample ID: MB 180-331211/2

Matrix: Water

Analysis Batch: 331211

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10          |                 | 10 | 10  | mg/L |   |          | 09/25/20 06:48 | 1       |

Lab Sample ID: LCS 180-331211/1

Matrix: Water

Analysis Batch: 331211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Dissolved Solids | 632            | 632           |                  | mg/L |   | 100  | 80 - 120        |

Lab Sample ID: 180-111398-10 DU

Matrix: Water

Analysis Batch: 331211

Client Sample ID: GWC-5

Prep Type: Total/NA

| Analyte                | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Total Dissolved Solids | 440              |                     | 438          |                 | mg/L |   | 0.2 | 10           |

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

## HPLC/IC

### Analysis Batch: 332056

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 180-111398-1     | GWA-1A             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-2     | GWA-2B             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-3     | GWA-3A             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-4     | GWA-4              | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-5     | GWA-5              | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-6     | GWA-7A             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-7     | GWC-1              | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-8     | GWC-2              | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| MB 180-332056/6  | Method Blank       | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| LCS 180-332056/5 | Lab Control Sample | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-1 MS  | GWA-1A             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-1 MSD | GWA-1A             | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-8 MS  | GWC-2              | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-8 MSD | GWC-2              | Total/NA  | Water  | EPA 300.0 R2.1 |            |

### Analysis Batch: 332057

| Lab Sample ID     | Client Sample ID     | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|----------------------|-----------|--------|----------------|------------|
| 180-111398-9      | GWC-4A               | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-10     | GWC-5                | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-11     | GWC-6                | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-12     | LF3-DUP-01           | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-13     | LF3-DUP-02           | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-14     | LF3-FB-01-09-21-20   | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-15     | LF3-FB-02-09-22-20   | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-16     | LF3-FERB-01-09-21-20 | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-17     | LF3-FERB-02-09-22-20 | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| MB 180-332057/33  | Method Blank         | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| LCS 180-332057/32 | Lab Control Sample   | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-9 MS   | GWC-4A               | Total/NA  | Water  | EPA 300.0 R2.1 |            |
| 180-111398-9 MSD  | GWC-4A               | Total/NA  | Water  | EPA 300.0 R2.1 |            |

## Metals

### Prep Batch: 332471

| Lab Sample ID | Client Sample ID     | Prep Type         | Matrix | Method | Prep Batch |
|---------------|----------------------|-------------------|--------|--------|------------|
| 180-111398-1  | GWA-1A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-2  | GWA-2B               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-3  | GWA-3A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-4  | GWA-4                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-5  | GWA-5                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-6  | GWA-7A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-7  | GWC-1                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-8  | GWC-2                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-9  | GWC-4A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-10 | GWC-5                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-11 | GWC-6                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-12 | LF3-DUP-01           | Total Recoverable | Water  | 3005A  |            |
| 180-111398-13 | LF3-DUP-02           | Total Recoverable | Water  | 3005A  |            |
| 180-111398-14 | LF3-FB-01-09-21-20   | Total Recoverable | Water  | 3005A  |            |
| 180-111398-15 | LF3-FB-02-09-22-20   | Total Recoverable | Water  | 3005A  |            |
| 180-111398-16 | LF3-FERB-01-09-21-20 | Total Recoverable | Water  | 3005A  |            |

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

## Metals (Continued)

### Prep Batch: 332471 (Continued)

| Lab Sample ID      | Client Sample ID     | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|----------------------|-------------------|--------|--------|------------|
| 180-111398-17      | LF3-FERB-02-09-22-20 | Total Recoverable | Water  | 3005A  |            |
| MB 180-332471/1-A  | Method Blank         | Total Recoverable | Water  | 3005A  |            |
| LCS 180-332471/2-A | Lab Control Sample   | Total Recoverable | Water  | 3005A  |            |
| 180-111398-1 MS    | GWA-1A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-1 MSD   | GWA-1A               | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 334010

| Lab Sample ID      | Client Sample ID     | Prep Type         | Matrix | Method    | Prep Batch |
|--------------------|----------------------|-------------------|--------|-----------|------------|
| 180-111398-1       | GWA-1A               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-2       | GWA-2B               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-3       | GWA-3A               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-4       | GWA-4                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-5       | GWA-5                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-6       | GWA-7A               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-7       | GWC-1                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-8       | GWC-2                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-9       | GWC-4A               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-10      | GWC-5                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-11      | GWC-6                | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-12      | LF3-DUP-01           | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-13      | LF3-DUP-02           | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-14      | LF3-FB-01-09-21-20   | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-15      | LF3-FB-02-09-22-20   | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-16      | LF3-FERB-01-09-21-20 | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-17      | LF3-FERB-02-09-22-20 | Total Recoverable | Water  | EPA 6020B | 332471     |
| MB 180-332471/1-A  | Method Blank         | Total Recoverable | Water  | EPA 6020B | 332471     |
| LCS 180-332471/2-A | Lab Control Sample   | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-1 MS    | GWA-1A               | Total Recoverable | Water  | EPA 6020B | 332471     |
| 180-111398-1 MSD   | GWA-1A               | Total Recoverable | Water  | EPA 6020B | 332471     |

### Prep Batch: 334180

| Lab Sample ID      | Client Sample ID     | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|----------------------|-------------------|--------|--------|------------|
| 180-111398-1       | GWA-1A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-2       | GWA-2B               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-3       | GWA-3A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-4       | GWA-4                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-5       | GWA-5                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-6       | GWA-7A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-7       | GWC-1                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-8       | GWC-2                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-9       | GWC-4A               | Total Recoverable | Water  | 3005A  |            |
| 180-111398-10      | GWC-5                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-11      | GWC-6                | Total Recoverable | Water  | 3005A  |            |
| 180-111398-12      | LF3-DUP-01           | Total Recoverable | Water  | 3005A  |            |
| 180-111398-13      | LF3-DUP-02           | Total Recoverable | Water  | 3005A  |            |
| 180-111398-14      | LF3-FB-01-09-21-20   | Total Recoverable | Water  | 3005A  |            |
| 180-111398-15      | LF3-FB-02-09-22-20   | Total Recoverable | Water  | 3005A  |            |
| 180-111398-16      | LF3-FERB-01-09-21-20 | Total Recoverable | Water  | 3005A  |            |
| 180-111398-17      | LF3-FERB-02-09-22-20 | Total Recoverable | Water  | 3005A  |            |
| MB 180-334180/1-A  | Method Blank         | Total Recoverable | Water  | 3005A  |            |
| LCS 180-334180/2-A | Lab Control Sample   | Total Recoverable | Water  | 3005A  |            |

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

## Metals (Continued)

### Prep Batch: 334180 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|------------------|------------------|-------------------|--------|--------|------------|
| 180-111398-2 MS  | GWA-2B           | Total Recoverable | Water  | 3005A  |            |
| 180-111398-2 MSD | GWA-2B           | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 334271

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| MB 180-332471/1-A  | Method Blank       | Total Recoverable | Water  | EPA 6020B | 332471     |
| LCS 180-332471/2-A | Lab Control Sample | Total Recoverable | Water  | EPA 6020B | 332471     |

### Analysis Batch: 334457

| Lab Sample ID      | Client Sample ID     | Prep Type         | Matrix | Method    | Prep Batch |
|--------------------|----------------------|-------------------|--------|-----------|------------|
| 180-111398-1       | GWA-1A               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-2       | GWA-2B               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-3       | GWA-3A               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-4       | GWA-4                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-5       | GWA-5                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-6       | GWA-7A               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-7       | GWC-1                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-8       | GWC-2                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-9       | GWC-4A               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-10      | GWC-5                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-11      | GWC-6                | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-12      | LF3-DUP-01           | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-13      | LF3-DUP-02           | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-14      | LF3-FB-01-09-21-20   | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-15      | LF3-FB-02-09-22-20   | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-16      | LF3-FERB-01-09-21-20 | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-17      | LF3-FERB-02-09-22-20 | Total Recoverable | Water  | EPA 6020B | 334180     |
| MB 180-334180/1-A  | Method Blank         | Total Recoverable | Water  | EPA 6020B | 334180     |
| LCS 180-334180/2-A | Lab Control Sample   | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-2 MS    | GWA-2B               | Total Recoverable | Water  | EPA 6020B | 334180     |
| 180-111398-2 MSD   | GWA-2B               | Total Recoverable | Water  | EPA 6020B | 334180     |

## General Chemistry

### Analysis Batch: 331210

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-111398-1     | GWA-1A             | Total/NA  | Water  | SM 2540C |            |
| 180-111398-2     | GWA-2B             | Total/NA  | Water  | SM 2540C |            |
| 180-111398-3     | GWA-3A             | Total/NA  | Water  | SM 2540C |            |
| 180-111398-4     | GWA-4              | Total/NA  | Water  | SM 2540C |            |
| 180-111398-5     | GWA-5              | Total/NA  | Water  | SM 2540C |            |
| 180-111398-6     | GWA-7A             | Total/NA  | Water  | SM 2540C |            |
| 180-111398-7     | GWC-1              | Total/NA  | Water  | SM 2540C |            |
| 180-111398-8     | GWC-2              | Total/NA  | Water  | SM 2540C |            |
| 180-111398-9     | GWC-4A             | Total/NA  | Water  | SM 2540C |            |
| MB 180-331210/2  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 180-331210/1 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 331211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 180-111398-10 | GWC-5            | Total/NA  | Water  | SM 2540C |            |

Eurofins TestAmerica, Pittsburgh

## QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant McIntosh Ash Landfill #3

Job ID: 180-111398-1

### General Chemistry (Continued)

#### Analysis Batch: 331211 (Continued)

| Lab Sample ID    | Client Sample ID     | Prep Type | Matrix | Method   | Prep Batch |
|------------------|----------------------|-----------|--------|----------|------------|
| 180-111398-11    | GWC-6                | Total/NA  | Water  | SM 2540C |            |
| 180-111398-12    | LF3-DUP-01           | Total/NA  | Water  | SM 2540C |            |
| 180-111398-13    | LF3-DUP-02           | Total/NA  | Water  | SM 2540C |            |
| 180-111398-14    | LF3-FB-01-09-21-20   | Total/NA  | Water  | SM 2540C |            |
| 180-111398-15    | LF3-FB-02-09-22-20   | Total/NA  | Water  | SM 2540C |            |
| 180-111398-16    | LF3-FERB-01-09-21-20 | Total/NA  | Water  | SM 2540C |            |
| 180-111398-17    | LF3-FERB-02-09-22-20 | Total/NA  | Water  | SM 2540C |            |
| MB 180-331211/2  | Method Blank         | Total/NA  | Water  | SM 2540C |            |
| LCS 180-331211/1 | Lab Control Sample   | Total/NA  | Water  | SM 2540C |            |
| 180-111398-10 DU | GWC-5                | Total/NA  | Water  | SM 2540C |            |

### Field Service / Mobile Lab

#### Analysis Batch: 333009

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-111398-1  | GWA-1A           | Total/NA  | Water  | Field Sampling |            |
| 180-111398-2  | GWA-2B           | Total/NA  | Water  | Field Sampling |            |
| 180-111398-3  | GWA-3A           | Total/NA  | Water  | Field Sampling |            |
| 180-111398-4  | GWA-4            | Total/NA  | Water  | Field Sampling |            |
| 180-111398-5  | GWA-5            | Total/NA  | Water  | Field Sampling |            |
| 180-111398-6  | GWA-7A           | Total/NA  | Water  | Field Sampling |            |
| 180-111398-7  | GWC-1            | Total/NA  | Water  | Field Sampling |            |
| 180-111398-8  | GWC-2            | Total/NA  | Water  | Field Sampling |            |
| 180-111398-9  | GWC-4A           | Total/NA  | Water  | Field Sampling |            |
| 180-111398-10 | GWC-5            | Total/NA  | Water  | Field Sampling |            |
| 180-111398-11 | GWC-6            | Total/NA  | Water  | Field Sampling |            |



|                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: SCS Contacts<br>Company: GA Power<br>Address: 241 Ralph McGill Blvd SE<br>City: Atlanta<br>State, Zip: GA, 30308<br>Phone: 404-506-7116(Tel)<br>Email: SCS Contacts<br>Project Name: Plant McIntosh Landfill #3<br>Site: Georgia   |  | Sampler: <i>Shali Brown</i><br>Lab PM: Brown, Shali<br>E-Mail: shali.brown@eurofinset.com<br>Phone: 770-594-5998                                                                                                                                                                                                                                                                                |  | Carrier Tracking No(s):<br>COC No:<br>Page: 1 of 2<br>Job #:                                                                                                            |  |
| <b>Analysis Requested</b><br>Due Date Requested:<br>TAT Requested (days):<br>PO #: SCS10382806<br>WO #:<br>Project #: 18019950<br>SSOW#:                                                                                                                                        |  | Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Decahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  |                                                                                                                                                                         |  |
| Total Number of Containers:                                                                                                                                                                                                                                                     |  | Special Instructions/Note:                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                         |  |
| Sample Identification                                                                                                                                                                                                                                                           |  | Sample Date                                                                                                                                                                                                                                                                                                                                                                                     |  | Sample Time                                                                                                                                                             |  |
| GWA-1A<br>GWA-2B<br>GWA-3A<br>GWA-4<br>GWA-5<br>GWA-7A<br>GWC-1<br>GWC-2<br>GWC-4A<br>GWC-5<br>GWC-6                                                                                                                                                                            |  | 9-21-20<br>9-22-20<br>9-21-20<br>9-21-20<br>9-22-20<br>9-21-20<br>9-22-20<br>9-22-20<br>9-22-20<br>9-22-20<br>9-22-20                                                                                                                                                                                                                                                                           |  | 1628<br>0942<br>1534<br>1651<br>0458<br>1529<br>1406<br>1343<br>1227<br>1107<br>1255                                                                                    |  |
| Matrix (W=Water, S=Solid, O=Organic, A=Air)<br>Preservation Code:                                                                                                                                                                                                               |  | Sample Type (C=Comp, G=Grab)<br>Matrix                                                                                                                                                                                                                                                                                                                                                          |  | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No)<br>App III Metals: B, Ca<br>Cl, F, SO4, TDS<br>Custom State & SM 2540C<br>Ba, Be, Cr, Co, Cu, Pb, V, Zn |  |
| pH = 4.95<br>pH = 5.83<br>pH = 4.69<br>pH = 4.60<br>pH = 4.99<br>pH = 5.35<br>pH = 4.66<br>pH = 5.04<br>pH = 4.92<br>pH = 5.87<br>pH = 4.73                                                                                                                                     |  | Total Number of Containers:                                                                                                                                                                                                                                                                                                                                                                     |  | Special Instructions/Note:                                                                                                                                              |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements: |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                         |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                       |  | Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                         |  |
| Relinquished by: <i>Shali Brown</i><br>Relinquished by: <i>Shali Brown</i><br>Relinquished by: <i>Shali Brown</i>                                                                                                                                                               |  | Date/Time: 9-23-20/1500<br>Date/Time: 9-23-20/1500<br>Date/Time: 9-23-20/1500                                                                                                                                                                                                                                                                                                                   |  | Company: ACC<br>Company: ACC<br>Company: ACC                                                                                                                            |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Custody Seal No.:                                                                                                                                                                             |  | Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                         |  |

|                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                           |  |                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: R. Walker / T. Goble<br>SCS Contacts: 770-598-5994<br>Company: shall.brown@eurofinset.com<br>GA Power<br>Address: 241 Ralph McGill Blvd SE<br>City: Atlanta<br>State, Zip: GA, 30308<br>Phone: 404-506-7116 (Tel)<br>Email: SCS Contacts<br>Project Name: Plant McIntosh Landfill #3<br>Site: Georgia                                                   |  | Lab PM: Brown, Shali<br>E-Mail: shall.brown@eurofinset.com<br>Due Date Requested:<br>TAT Requested (days):<br>PO #: SCS10382605<br>WO #:<br>Project #: 18019950<br>SSOW#: |  | Carrier Tracking No(s):<br>COC No:<br>Page: 2 of 2<br>Job #: |  |
| <b>Analysis Requested</b><br>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>App III Metals: B, Ca<br>Cl, F, SO <sub>4</sub> , & TDS<br>EPA 300.0 & SM 2540C<br>Custom State & Permit Metals (EPA 6020):<br>Ba, Be, Cr, Co, Cu, Pb, V, Zn |  |                                                                                                                                                                           |  |                                                              |  |
| Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO <sub>4</sub><br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Z - other (specify)<br>Other:                                                                                                                                                         |  |                                                                                                                                                                           |  |                                                              |  |
| Total Number of Containers                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                           |  |                                                              |  |
| Special Instructions/Note:                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                           |  |                                                              |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements:                                                                                                                                 |  |                                                                                                                                                                           |  |                                                              |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                        |  |                                                                                                                                                                           |  |                                                              |  |
| Empty Kit Relinquished by: _____ Date: _____<br>Relinquished by: _____ Date: 9-23-20/1500 Company: ACC<br>Relinquished by: _____ Date: 9-23-20 Company: 1503<br>Relinquished by: _____ Date: 9-23-20 Company: 1503<br>Custody Seals Intact: _____ Custody Seal No.: _____<br>Cooler Temperature(s) °C and Other Remarks:                                                                             |  |                                                                                                                                                                           |  |                                                              |  |

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111398-1

**Login Number: 111398**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

**LEVEL 2A LABORATORY DATA VALIDATIONS**

**McIntosh Inactive Landfill No. 3**

**2<sup>nd</sup> Semiannual Event**

**September 2020**

## **Georgia Power Company – McIntosh Landfill 3**

### **Quality Control Review of Analytical Data – September 2020**

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater samples collected at McIntosh LF3 between September 21, 2020 and September 22, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 180-111398 was revised by the laboratory to apply J qualifiers for results detected between reporting limit (RL) and method detection limit (MDL).

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

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)<sup>1</sup> and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)<sup>2</sup>. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

## DATA QUALITY OBJECTIVES

**Laboratory Precision:** Laboratory goals for precision were met.

**Field Precision:** Field goals for precision were met, with the exceptions of Boron on GWA-3A (180-111398-3) and Sulfate and Boron on GWC-1 (180-111398-7) as described in the qualifications section below.

**Accuracy:** Laboratory goals for accuracy were met.

**Detection Limits:** Project goals for detection limits were met.

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

**Holding Times:** Holding time requirements were met.

## QUALIFICATIONS

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

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

**U:** The analyte was not detected above the method detection limit

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

- Samples GWA-3A (180-111398-3) and LF3-DUP-01 (180-111398-12) were qualified as estimated (J) for Boron as the field relative percent difference (RPD) exceeded QC criteria (31.58% above the limit of 25).

- Samples GWC-1 (180-111398-7) and LF3-DUP-02 (180-111398-13) were qualified as estimated (J) for Sulfate and Boron as the field RPDs exceeded QC criteria (49.50% and 43.48%, respectively above limit of 25).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between September 21, 2020 and September 22, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

## **REFERENCES**

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

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



TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – September 2020

| SDG    | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples  | Analyses       |                |                |
|--------|----------------------|-----------------|--------------------|--------|-------------|----------------|----------------|----------------|
|        |                      |                 |                    |        |             | Metals (6020B) | Anions (300.0) | TDS (SM 2540C) |
| 111398 | GWA-1A               | 9/21/2020       | 180-111398-1       | GW     |             | X              | X              | X              |
| 111398 | GWA-2B               | 9/22/2020       | 180-111398-2       | GW     |             | X              | X              | X              |
| 111398 | GWA-3A               | 9/21/2020       | 180-111398-3       | GW     |             | X              | X              | X              |
| 111398 | GWA-4                | 9/21/2020       | 180-111398-4       | GW     |             | X              | X              | X              |
| 111398 | GWA-5                | 9/22/2020       | 180-111398-5       | GW     |             | X              | X              | X              |
| 111398 | GWA-7A               | 9/21/2020       | 180-111398-6       | GW     |             | X              | X              | X              |
| 111398 | GWC-1                | 9/22/2020       | 180-111398-7       | GW     |             | X              | X              | X              |
| 111398 | GWC-2                | 9/22/2020       | 180-111398-8       | GW     |             | X              | X              | X              |
| 111398 | GWC-4A               | 9/22/2020       | 180-111398-9       | GW     |             | X              | X              | X              |
| 111398 | GWC-5                | 9/22/2020       | 180-111398-10      | GW     |             | X              | X              | X              |
| 111398 | GWC-6                | 9/22/2020       | 180-111398-11      | GW     |             | X              | X              | X              |
| 111398 | LF3-DUP-01           | 9/21/2020       | 180-111398-12      | GW     | FD (GWA-3A) | X              | X              | X              |
| 111398 | LF3-DUP-02           | 9/22/2020       | 180-111398-13      | GW     | FD (GWC-1)  | X              | X              | X              |
| 111398 | LF3-FB-01-09-21-20   | 9/21/2020       | 180-111398-14      | WQ     | FB          | X              | X              | X              |
| 111398 | LF3-FB-02-09-22-20   | 9/22/2020       | 180-111398-15      | WQ     | FB          | X              | X              | X              |
| 111398 | LF3-FERB-01-09-21-20 | 9/21/2020       | 180-111398-16      | WQ     | EB          | X              | X              | X              |
| 111398 | LF3-FERB-02-09-22-20 | 9/22/2020       | 180-111398-17      | WQ     | EB          | X              | X              | X              |

## Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

## Georgia Power Company – McIntosh LF3

## Qualifier Summary Table – September 2020

| SDG    | Field Identification | Constituent | New RL | New MDL or MDC | Qualifier | Reason                 |
|--------|----------------------|-------------|--------|----------------|-----------|------------------------|
| 111398 | GWA-3A               | Boron       |        |                | J         | RPD exceeds field goal |
| 111398 | LF3-DUP-01           | Boron       |        |                | J         | RPD exceeds field goal |
| 111398 | GWC-1                | Sulfate     |        |                | J         | RPD exceeds field goal |
| 111398 | LF3-DUP-02           | Sulfate     |        |                | J         | RPD exceeds field goal |
| 111398 | GWC-1                | Boron       |        |                | J         | RPD exceeds field goal |
| 111398 | LF3-DUP-02           | Boron       |        |                | J         | RPD exceeds field goal |

## Abbreviations:

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

## Qualifiers:

J – Estimated Result  
 U – Non-Detect Result

Product Name: Low-Flow System

Date: 2020-09-21 16:29:25

Project Information:

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name McIntosh LF3  
Site Name McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 37 ft

Pump placement from TOC 32 ft

Well Information:

Well ID GWA-1A  
Well diameter 2 in  
Well Total Depth 37.36 ft  
Screen Length 10 ft  
Depth to Water 13.24 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.2371442 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond µS/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|--------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 3%       | +/- 10   |        | +/- 0.3  | +/- 10 |
| Last 5        | 16:08:36 | 600.03  | 20.82   | 4.97    | 52.51        | 0.55     | 13.40  | 0.89     | 45.90  |
| Last 5        | 16:13:36 | 900.03  | 20.65   | 4.96    | 52.46        | 0.33     | 13.40  | 0.85     | 45.21  |
| Last 5        | 16:18:36 | 1200.04 | 20.56   | 4.95    | 52.22        | 0.21     | 13.40  | 0.83     | 45.95  |
| Last 5        | 16:23:36 | 1500.04 | 20.53   | 4.95    | 52.31        | 0.20     | 13.40  | 0.83     | 46.35  |
| Last 5        | 16:28:36 | 1800.04 | 20.47   | 4.95    | 52.39        | 0.49     | 13.40  | 0.84     | 46.66  |
| Variance 0    |          |         | -0.09   | -0.01   | -0.24        |          |        | -0.02    | 0.73   |
| Variance 1    |          |         | -0.02   | -0.00   | 0.09         |          |        | -0.00    | 0.41   |
| Variance 2    |          |         | -0.06   | -0.00   | 0.08         |          |        | 0.01     | 0.31   |

Notes

Sampled at 16:28. Sunny, 80's. FERB-01 here.

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 09:43:47

Project Information:

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name McIntosh LF3  
Site Name McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 63 ft

Pump placement from TOC 58 ft

Well Information:

Well ID GWA-2B  
Well diameter 2 in  
Well Total Depth 63.09 ft  
Screen Length 10 ft  
Depth to Water 17.97 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.2772996 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 18 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 3%            | +/- 10   |        | +/- 0.3  | +/- 10 |
| Last 5        | 09:22:56 | 900.04  | 19.13   | 5.77    | 202.71            | 0.18     | 19.30  | 3.20     | 99.14  |
| Last 5        | 09:27:56 | 1200.04 | 19.12   | 5.83    | 202.32            | 0.16     | 19.40  | 3.15     | 93.35  |
| Last 5        | 09:32:56 | 1500.04 | 19.19   | 5.80    | 201.75            | 0.12     | 19.40  | 3.13     | 92.18  |
| Last 5        | 09:37:56 | 1800.04 | 19.24   | 5.82    | 201.08            | 0.12     | 19.50  | 3.12     | 89.73  |
| Last 5        | 09:42:56 | 2100.04 | 19.25   | 5.83    | 201.29            | 0.11     | 19.50  | 3.10     | 88.46  |
| Variance 0    |          |         | 0.08    | -0.04   | -0.56             |          |        | -0.02    | -1.17  |
| Variance 1    |          |         | 0.04    | 0.03    | -0.68             |          |        | -0.02    | -2.45  |
| Variance 2    |          |         | 0.01    | 0.00    | 0.21              |          |        | -0.01    | -1.27  |

Notes

Sampled at 09:42. Sunny, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-21 15:36:07

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 33.90 ft

Pump placement from TOC

28.90 ft

Well Information:

Well ID GWA-3A  
Well diameter 2 in  
Well Total Depth 33.90 ft  
Screen Length 10 ft  
Depth to Water 14.38 ft

Pumping Information:

Final Pumping Rate 90 mL/min  
Total System Volume 0.2139776 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%            | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 15:14:37 | 600.01  | 18.57   | 4.84    | 86.86             | 1.16     | 14.96  | 0.35     | 14.57  |
| Last 5        | 15:19:37 | 900.00  | 18.46   | 4.75    | 86.25             | 0.64     | 15.01  | 0.30     | 7.53   |
| Last 5        | 15:24:37 | 1199.99 | 18.33   | 4.73    | 83.26             | 0.51     | 15.06  | 0.25     | 6.00   |
| Last 5        | 15:29:37 | 1499.98 | 18.20   | 4.72    | 82.65             | 0.47     | 15.11  | 0.21     | 6.28   |
| Last 5        | 15:34:37 | 1799.98 | 18.35   | 4.69    | 82.08             | 0.41     | 15.16  | 0.19     | 7.89   |
| Variance 0    |          |         | -0.12   | -0.02   | -2.99             |          |        | -0.04    | -1.53  |
| Variance 1    |          |         | -0.13   | -0.01   | -0.61             |          |        | -0.04    | 0.28   |
| Variance 2    |          |         | 0.14    | -0.03   | -0.57             |          |        | -0.03    | 1.61   |

Notes

Sampled at 1534. Partly cloudy 74 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-21 16:53:59

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 29.17 ft

Pump placement from TOC 24.17 ft

Well Information:

Well ID GWA-4  
Well diameter 2 in  
Well Total Depth 29.17 ft  
Screen Length 10 ft  
Depth to Water 14.27 ft

Pumping Information:

Final Pumping Rate 50 mL/min  
Total System Volume 0.2139776 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14 in  
Total Volume Pumped 1.5 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%            | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 16:31:17 | 600.02  | 19.81   | 4.64    | 44.48             | 0.80     | 14.82  | 1.24     | -12.89 |
| Last 5        | 16:36:17 | 900.00  | 19.19   | 4.63    | 44.81             | 0.66     | 14.99  | 1.02     | -15.43 |
| Last 5        | 16:41:17 | 1199.99 | 18.96   | 4.61    | 45.05             | 0.31     | 15.17  | 0.96     | -15.15 |
| Last 5        | 16:46:17 | 1499.98 | 18.80   | 4.61    | 45.24             | 0.25     | 15.33  | 0.94     | -14.61 |
| Last 5        | 16:51:17 | 1799.97 | 18.79   | 4.60    | 45.38             | 0.22     | 15.55  | 0.92     | -13.81 |
| Variance 0    |          |         | -0.24   | -0.02   | 0.24              |          |        | -0.06    | 0.29   |
| Variance 1    |          |         | -0.16   | -0.01   | 0.20              |          |        | -0.02    | 0.53   |
| Variance 2    |          |         | -0.01   | -0.01   | 0.14              |          |        | -0.02    | 0.81   |

Notes

Sampled at 1651. Cloudy 74 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 10:00:09

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 28.48 ft

Pump placement from TOC 23.48 ft

Well Information:

Well ID GWA-5  
Well diameter 2 in  
Well Total Depth 28.48 ft  
Screen Length 10 ft  
Depth to Water 13.21 ft

Pumping Information:

Final Pumping Rate 80 mL/min  
Total System Volume 0.2139776 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 25 in  
Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%            | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 09:38:34 | 600.02  | 16.47   | 4.87    | 83.87             | 3.57     | 13.80  | 0.36     | 11.82  |
| Last 5        | 09:43:34 | 900.00  | 16.58   | 4.97    | 79.28             | 4.18     | 14.18  | 0.35     | 8.10   |
| Last 5        | 09:48:34 | 1199.99 | 16.56   | 4.98    | 78.21             | 4.57     | 14.60  | 0.31     | 8.08   |
| Last 5        | 09:53:34 | 1499.98 | 16.74   | 5.00    | 76.58             | 4.73     | 15.03  | 0.29     | 10.89  |
| Last 5        | 09:58:34 | 1799.98 | 16.79   | 4.99    | 76.67             | 4.55     | 15.44  | 0.28     | 15.23  |
| Variance 0    |          |         | -0.02   | 0.01    | -1.07             |          |        | -0.04    | -0.02  |
| Variance 1    |          |         | 0.18    | 0.02    | -1.62             |          |        | -0.02    | 2.81   |
| Variance 2    |          |         | 0.05    | -0.01   | 0.09              |          |        | -0.02    | 4.34   |

Notes

Sampled at 0958. Sunny 62 degrees. LF3-FB-02 poured here at 1000.

Grab Samples



Product Name: Low-Flow System

Date: 2020-09-21 15:30:08

Project Information:

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 53 ft

Pump placement from TOC 48 ft

Well Information:

Well ID GWA-7A  
Well diameter 2 in  
Well Total Depth 53.09 ft  
Screen Length 10 ft  
Depth to Water 21.46 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.2618552 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9 in  
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond µS/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|--------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 3%       | +/- 10   |        | +/- 0.3  | +/- 10 |
| Last 5        | 15:09:21 | 600.04  | 20.96   | 5.32    | 183.72       | 2.72     | 22.20  | 0.55     | 59.88  |
| Last 5        | 15:14:21 | 900.04  | 20.83   | 5.29    | 184.29       | 2.14     | 22.20  | 0.50     | 60.44  |
| Last 5        | 15:19:21 | 1200.04 | 20.78   | 5.26    | 182.10       | 1.33     | 22.20  | 0.48     | 58.23  |
| Last 5        | 15:24:21 | 1500.04 | 20.67   | 5.29    | 183.58       | 1.62     | 22.20  | 0.55     | 57.28  |
| Last 5        | 15:29:21 | 1800.04 | 20.64   | 5.35    | 182.33       | 1.32     | 22.20  | 0.48     | 51.25  |
| Variance 0    |          |         | -0.05   | -0.02   | -2.19        |          |        | -0.02    | -2.21  |
| Variance 1    |          |         | -0.11   | 0.02    | 1.49         |          |        | 0.07     | -0.95  |
| Variance 2    |          |         | -0.03   | 0.07    | -1.26        |          |        | -0.06    | -6.03  |

Notes

Sampled at 15:29. Sunny, 80's. FB-1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 14:07:33

Project Information:

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 55 ft

Pump placement from TOC 50 ft

Well Information:

Well ID GWC-1  
Well diameter 2 in  
Well Total Depth 55.81 ft  
Screen Length 10 ft  
Depth to Water 18.80 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.264944 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond µS/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|--------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 3%       | +/- 10   |        | +/- 0.3  | +/- 10 |
| Last 5        | 13:46:30 | 600.04  | 21.54   | 4.75    | 49.61        | 0.59     | 18.90  | 2.68     | 183.22 |
| Last 5        | 13:51:30 | 900.04  | 21.71   | 4.71    | 49.21        | 1.32     | 18.90  | 2.74     | 190.22 |
| Last 5        | 13:56:30 | 1200.04 | 21.94   | 4.68    | 48.72        | 1.05     | 18.90  | 2.69     | 195.91 |
| Last 5        | 14:01:30 | 1500.04 | 22.83   | 4.68    | 47.80        | 0.42     | 18.90  | 2.61     | 199.72 |
| Last 5        | 14:06:30 | 1800.04 | 23.19   | 4.66    | 47.38        | 0.31     | 18.90  | 2.55     | 205.31 |
| Variance 0    |          |         | 0.23    | -0.03   | -0.49        |          |        | -0.06    | 5.69   |
| Variance 1    |          |         | 0.89    | 0.00    | -0.92        |          |        | -0.07    | 3.81   |
| Variance 2    |          |         | 0.36    | -0.02   | -0.42        |          |        | -0.07    | 5.59   |

Notes

Sampled at 14:06. Sunny, 70's. Dup-2 here.

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 13:44:11

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 37.35 ft

Pump placement from TOC 32.35 ft

Well Information:

Well ID GWC-2  
Well diameter 2 in  
Well Total Depth 37.35 ft  
Screen Length 10 ft  
Depth to Water 18.02 ft

Pumping Information:

Final Pumping Rate 130 mL/min  
Total System Volume 0.2186109 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1 in  
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%            | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 13:23:29 | 600.01  | 19.86   | 5.08    | 49.46             | 0.34     | 18.07  | 1.52     | 10.31  |
| Last 5        | 13:28:29 | 900.00  | 19.54   | 5.05    | 49.24             | 1.00     | 18.08  | 1.41     | 11.93  |
| Last 5        | 13:33:29 | 1199.99 | 19.41   | 5.05    | 49.26             | 0.62     | 18.08  | 1.36     | 12.91  |
| Last 5        | 13:38:29 | 1499.99 | 19.40   | 5.06    | 49.35             | 0.61     | 18.08  | 1.32     | 13.81  |
| Last 5        | 13:43:29 | 1799.98 | 19.42   | 5.04    | 48.85             | 0.59     | 18.08  | 1.31     | 15.33  |
| Variance 0    |          |         | -0.12   | -0.00   | 0.02              |          |        | -0.05    | 0.99   |
| Variance 1    |          |         | -0.02   | 0.01    | 0.09              |          |        | -0.04    | 0.90   |
| Variance 2    |          |         | 0.02    | -0.02   | -0.50             |          |        | -0.01    | 1.52   |

Notes

Sampled at 1343. Sunny 73 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 12:27:49

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 36.99 ft

Pump placement from TOC 31.99 ft

Well Information:

Well ID GWC-4A  
Well diameter 2 in  
Well Total Depth 36.99 ft  
Screen Length 10 ft  
Depth to Water 19.83 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.2186109 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond µS/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|--------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%       | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 12:07:16 | 600.01  | 19.06   | 4.91    | 62.90        | 5.02     | 20.25  | 0.41     | -4.57  |
| Last 5        | 12:12:16 | 900.00  | 18.95   | 4.92    | 63.38        | 1.89     | 20.27  | 0.27     | -12.49 |
| Last 5        | 12:17:16 | 1200.00 | 19.32   | 4.92    | 63.05        | 1.02     | 20.28  | 0.23     | -15.34 |
| Last 5        | 12:22:16 | 1499.98 | 20.04   | 4.92    | 62.34        | 1.53     | 20.28  | 0.21     | -18.96 |
| Last 5        | 12:27:16 | 1799.98 | 20.01   | 4.91    | 62.36        | 1.36     | 20.28  | 0.19     | -18.78 |
| Variance 0    |          |         | 0.38    | -0.01   | -0.32        |          |        | -0.04    | -2.86  |
| Variance 1    |          |         | 0.71    | 0.00    | -0.71        |          |        | -0.03    | -3.62  |
| Variance 2    |          |         | -0.03   | -0.00   | 0.02         |          |        | -0.01    | 0.18   |

Notes

Sampled at 1227. Sunny 70 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 11:08:52

Project Information:

Operator Name Taylor Goble  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 30.59 ft

Pump placement from TOC 25.59 ft

Well Information:

Well ID GWC-5  
Well diameter 2 in  
Well Total Depth 30.59 ft  
Screen Length 10 ft  
Depth to Water 19.14 ft

Pumping Information:

Final Pumping Rate 50 mL/min  
Total System Volume 0.2201554 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 8 in  
Total Volume Pumped 1 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 5%            | +/- 10   |        | +/- 10%  | +/- 25 |
| Last 5        | 10:47:50 | 600.01  | 16.73   | 5.83    | 587.47            | 0.77     | 19.44  | 0.86     | 50.16  |
| Last 5        | 10:52:50 | 900.00  | 17.20   | 5.85    | 589.04            | 0.52     | 19.56  | 0.55     | 48.25  |
| Last 5        | 10:57:50 | 1199.99 | 17.37   | 5.87    | 598.09            | 0.72     | 19.68  | 0.46     | 45.90  |
| Last 5        | 11:02:50 | 1499.98 | 17.45   | 5.86    | 602.57            | 0.82     | 19.77  | 0.42     | 46.05  |
| Last 5        | 11:07:50 | 1799.97 | 17.50   | 5.87    | 600.98            | 0.66     | 19.87  | 0.39     | 45.15  |
| Variance 0    |          |         | 0.17    | 0.02    | 9.04              |          |        | -0.09    | -2.36  |
| Variance 1    |          |         | 0.08    | -0.00   | 4.48              |          |        | -0.04    | 0.15   |
| Variance 2    |          |         | 0.04    | 0.00    | -1.59             |          |        | -0.02    | -0.89  |

Notes

Sampled at 1107. Sunny 66 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 12:55:59

Project Information:

Operator Name Ryan Walker  
Company Name Atlantic Coast Consulting  
Project Name Plant McIntosh LF3  
Site Name Plant McIntosh LF3  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump  
Tubing Type poly  
Tubing Diameter 0.10 in  
Tubing Length 45 ft

Pump placement from TOC 40 ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth 45.12 ft  
Screen Length 10 ft  
Depth to Water 20.69 ft

Pumping Information:

Final Pumping Rate 50 mL/min  
Total System Volume 0.2494997 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 115 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

|               | Time     | Elapsed | Temp C  | pH      | SpCond $\mu$ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization |          |         | +/- 0.5 | +/- 0.1 | +/- 3%            | +/- 10   |        | +/- 0.3  | +/- 10 |
| Last 5        | 12:35:03 | 8102.08 | 21.09   | 4.80    | 45.95             | 1.34     | 30.00  | 1.69     | 124.96 |
| Last 5        | 12:40:03 | 8402.08 | 21.12   | 4.77    | 46.29             | 0.88     | 30.10  | 1.68     | 130.10 |
| Last 5        | 12:45:03 | 8702.08 | 21.10   | 4.71    | 46.55             | 0.94     | 30.20  | 1.67     | 137.10 |
| Last 5        | 12:50:03 | 9002.08 | 21.13   | 4.76    | 46.68             | 0.72     | 30.30  | 1.69     | 138.06 |
| Last 5        | 12:55:03 | 9302.08 | 21.18   | 4.73    | 46.89             | 0.97     | 30.40  | 1.60     | 142.57 |
| Variance 0    |          |         | -0.02   | -0.06   | 0.26              |          |        | -0.02    | 7.00   |
| Variance 1    |          |         | 0.03    | 0.05    | 0.13              |          |        | 0.02     | 0.95   |
| Variance 2    |          |         | 0.06    | -0.03   | 0.21              |          |        | -0.09    | 4.52   |

Notes

Sampled at 12:55. Sunny, 70's.

Grab Samples



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: Ryan Walker

INSTRUMENT S/N: 190106073360  
INSTRUMENT TYPE: Hach 2100 Q  
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: New DI water  
10 NTU - LOT # EXP. DATE:  
20 NTU - LOT # EXP. DATE:

Calibration Date: 9/15/20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.21</u>        | NTU |
| 10.0                 | <u>9.69</u>        | NTU |
| 20.0                 | <u>18.1</u>        | NTU |

Calibration Date: 9/16/20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.20</u>        | NTU |
| 10.0                 | <u>9.72</u>        | NTU |
| 20.0                 | <u>20.1</u>        | NTU |

Calibration Date: 9/17/20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.19</u>        | NTU |
| 10.0                 | <u>9.78</u>        | NTU |
| 20.0                 | <u>20.2</u>        | NTU |

Calibration Date: 9/21/20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.26</u>        | NTU |
| 10.0                 | <u>9.54</u>        | NTU |
| 20.0                 | <u>20.4</u>        | NTU |

Calibration Date: 9/22/20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.30</u>        | NTU |
| 10.0                 | <u>9.86</u>        | NTU |
| 20.0                 | <u>20.6</u>        | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: Ryan Walker

WATER LEVEL: Heron  
WATER LEVEL S/N: 24424

INSTRUMENT S/N: 646770  
INSTRUMENT TYPE: Insitu SmartTroll  
CAL. SOLUTION/S: 

|                  |                       |                           |
|------------------|-----------------------|---------------------------|
| ID: <u>pH 4</u>  | LOT # <u>26010025</u> | EXP. DATE: <u>08/2021</u> |
| ID: <u>pH 7</u>  | LOT # <u>19340057</u> | EXP. DATE: <u>08/2021</u> |
| ID: <u>pH 10</u> | LOT # <u>19320102</u> | EXP. DATE: <u>08/2021</u> |
| ID: <u>CON</u>   | LOT # <u>19460167</u> | EXP. DATE: <u>08/2021</u> |
| ID: <u>ORP</u>   | LOT # <u>20010025</u> | EXP. DATE: <u>08/2021</u> |
| ID:              | LOT #:                | EXP. DATE:                |
| ID:              | LOT #:                | EXP. DATE:                |

Calibration Date: 9/15/20  
RDO: 100% sat. = 95.3  
PH: 4.00 = 4.40 7.00 = 7.23 10.00 = 10.06  
CONDUCTIVITY: 4455  
ORP (mV) 198.7

Calibration Date: 9/16/20  
RDO: 100% sat. = 95.4  
PH: 4.00 = 4.54 7.00 = 7.38 10.00 = 10.09  
CONDUCTIVITY: 4476  
ORP (mV) 210.7

Calibration Date: 9/17/20  
RDO: 100% sat. = 98.3  
PH: 4.00 = 4.59 7.00 = 7.45 10.00 = 10.09  
CONDUCTIVITY: 4457  
ORP (mV) 208.4

Calibration Date: 9/21/20  
RDO: 100% sat. = 95.3  
PH: 4.00 = 4.57 7.00 = 7.38 10.00 = 10.01  
CONDUCTIVITY: 4453  
ORP (mV) 205.0

Calibration Date: 9/22/20  
RDO: 100% sat. = 94.0  
PH: 4.00 = 4.71 7.00 = 7.41 10.00 = 9.97  
CONDUCTIVITY: 4484  
ORP (mV) 217.2





## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: T. Gable

WATER LEVEL: Solinst  
WATER LEVEL S/N: 236956

INSTRUMENT S/N: 463068  
INSTRUMENT TYPE: Insitu SmartTroll  
CAL. SOLUTION/S: 

|                     |                        |                        |
|---------------------|------------------------|------------------------|
| ID: <u>Auto Cal</u> | LOT #: <u>20010025</u> | EXP. DATE: <u>8/21</u> |
| ID: <u>pH 7</u>     | LOT #: <u>19340057</u> | EXP. DATE: <u>8/21</u> |
| ID: <u>pH 10</u>    | LOT #: <u>19320102</u> | EXP. DATE: <u>8/21</u> |
| ID: <u>ORP</u>      | LOT #: <u>19460167</u> | EXP. DATE: <u>8/21</u> |
| ID: _____           | LOT #: _____           | EXP. DATE: _____       |
| ID: _____           | LOT #: _____           | EXP. DATE: _____       |
| ID: _____           | LOT #: _____           | EXP. DATE: _____       |

Calibration Date: 9-21-20  
RDO: 100% sat. = 99.4  
PH: 4.00 = 4.55 7.00 = 7.39 10.00 = 10.20  
CONDUCTIVITY: 4518 = 4490  
ORP (mV) 228 = 197.9

Calibration Date: 9-22-20  
RDO: 100% sat. = 102.1  
PH: 4.00 = 4.66 7.00 = 7.39 10.00 = 10.12  
CONDUCTIVITY: 4490 = 4303  
ORP (mV) 228 = 203.8

Calibration Date: \_\_\_\_\_  
RDO: 100% sat. = \_\_\_\_\_  
PH: 4.00 = \_\_\_\_\_ 7.00 = \_\_\_\_\_ 10.00 = \_\_\_\_\_  
CONDUCTIVITY: \_\_\_\_\_  
ORP (mV) \_\_\_\_\_

Calibration Date: \_\_\_\_\_  
RDO: 100% sat. = \_\_\_\_\_  
PH: 4.00 = \_\_\_\_\_ 7.00 = \_\_\_\_\_ 10.00 = \_\_\_\_\_  
CONDUCTIVITY: \_\_\_\_\_  
ORP (mV) \_\_\_\_\_

Calibration Date: \_\_\_\_\_  
RDO: 100% sat. = \_\_\_\_\_  
PH: 4.00 = \_\_\_\_\_ 7.00 = \_\_\_\_\_ 10.00 = \_\_\_\_\_  
CONDUCTIVITY: \_\_\_\_\_  
ORP (mV) \_\_\_\_\_



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: T. Goble

INSTRUMENT S/N: 11090C012514  
INSTRUMENT TYPE: Hach 2100 Q  
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: New DI water  
10 NTU - LOT # A9311 EXP. DATE: Feb 21  
20 NTU - LOT # A9254 EXP. DATE: Dec 20

Calibration Date: 9-21-20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.33</u>        | NTU |
| 10.0                 | <u>9.95</u>        | NTU |
| 20.0                 | <u>19.6</u>        | NTU |

100 = 95.7  
800 = 810

Calibration Date: 9-22-20

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.17</u>        | NTU |
| 10.0                 | <u>10.3</u>        | NTU |
| 20.0                 | <u>20.5</u>        | NTU |

100 = 101  
800 = 812

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

1 - Location/Identification

|   |                                                                                                                       | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|---|-----------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| a | Is the well visible and accessible?                                                                                   | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| b | Is the well properly identified with the correct well ID?                                                             | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| c | Does the well require protection from traffic?                                                                        | No    | No     | No    | No     | No     | No     | No     | No    | No    | No    | No     |
| d | Is the drainage around the well acceptable?<br>(No standing water, nor is well located in obvious drainage flow path) | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

2 - Protective Outer Casing

|   |                                                                      | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|---|----------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| a | Is the protective casing free from apparent damage?                  | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| b | Is the casing free of degradation or deterioration?                  | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| c | Does the casing have a functioning weep hole?                        | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| e | Is the well locked, and is the lock in good working condition?       | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

3 - Surface Pad

|   |                                                                                                                                             | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|---|---------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| a | Is the well pad in good condition? (Not cracked or broken)                                                                                  | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| b | Does the well pad provide adequate surface seal and stability to the well?                                                                  | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| c | Is the well pad in complete contact with the protective casing?                                                                             | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| e | Is the pad surface clean? (Not covered by soil or debris)                                                                                   | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

4 - Internal Well Casing

|   |                                                                                                                                              | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|---|----------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| a | Does the well cap prevent entry of foreign material into the well?                                                                           | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?                                            | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| c | Does the well have a venting hole near the top of casing?                                                                                    | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| d | Is the survey point clearly marked on the inner casing?                                                                                      | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| e | Is the depth of the well consistent with the original well log?                                                                              | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No    | No     | No    | No     | No     | No     | No     | No    | No    | No    | No     |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

5 - Sampling (Groundwater Monitoring Wells Only):

|   |                                                                                  | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|---|----------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| a | Does the well recharge adequately when purged?                                   | N/A   | Yes    | N/A   | N/A    | Yes    | Yes    | N/A    | Yes   | Yes   | N/A   | Yes    |
| b | If dedicated sampling equipment is installed, is it in good condition?           | N/A   | N/A    | N/A   | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A    |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | N/A   | No     | N/A   | N/A    | No     | No     | N/A    | No    | No    | N/A   | No     |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

|                                                                                                                                         | GWA-1 | GWA-1A | GWA-2 | GWA-2A | GWA-2B | GWA-3A | GWA-3B | GWA-4 | GWA-5 | GWA-7 | GWA-7A |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and<br>2) comply with the applicable regulatory requirements? | Yes   | Yes    | Yes   | Yes    | Yes    | Yes    | Yes    | Yes   | Yes   | Yes   | Yes    |

7 - Corrective actions completed and Notes:

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

1 - Location/Identification

|   |                                                                                                                    | <b>GWC-1</b> | <b>GWC-2</b> | <b>GWC-3</b> | <b>GWC-4A</b> | <b>GWC-4B</b> | <b>GWC-5</b> | <b>GWC-6</b> | <b>PZ-1</b> | <b>PZ-2</b> | <b>PZ-3</b> |  |
|---|--------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|-------------|-------------|-------------|--|
| a | Is the well visible and accessible?                                                                                | Yes          | Yes          | Yes          | Yes           | Yes           | Yes          | Yes          | Yes         | Yes         | Yes         |  |
| b | Is the well properly identified with the correct well ID?                                                          | Yes          | Yes          | Yes          | Yes           | Yes           | Yes          | Yes          | Yes         | Yes         | Yes         |  |
| c | Does the well require protection from traffic?                                                                     | No           | No           | No           | No            | No            | No           | No           | No          | No          | No          |  |
| d | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes          | Yes          | Yes          | Yes           | Yes           | Yes          | Yes          | Yes         | Yes         | Yes         |  |



Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

2 - Protective Outer Casing

|   |                                                                      | GWC-1 | GWC-2 | GWC-3 | GWC-4A | GWC-4B | GWC-5 | GWC-6 | PZ-1 | PZ-2 | PZ-3 |  |
|---|----------------------------------------------------------------------|-------|-------|-------|--------|--------|-------|-------|------|------|------|--|
| a | Is the protective casing free from apparent damage?                  | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| b | Is the casing free of degradation or deterioration?                  | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| c | Does the casing have a functioning weep hole?                        | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| e | Is the well locked, and is the lock in good working condition?       | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

3 - Surface Pad

|   |                                                                                                                                             | GWC-1 | GWC-2 | GWC-3 | GWC-4A | GWC-4B | GWC-5 | GWC-6 | PZ-1 | PZ-2 | PZ-3 |  |
|---|---------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|--------|--------|-------|-------|------|------|------|--|
| a | Is the well pad in good condition? (Not cracked or broken)                                                                                  | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| b | Does the well pad provide adequate surface seal and stability to the well?                                                                  | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| c | Is the well pad in complete contact with the protective casing?                                                                             | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| e | Is the pad surface clean? (Not covered by soil or debris)                                                                                   | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

4 - Internal Well Casing

|   |                                                                                                                                              | GWC-1 | GWC-2 | GWC-3 | GWC-4A | GWC-4B | GWC-5 | GWC-6 | PZ-1 | PZ-2 | PZ-3 |  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|--------|--------|-------|-------|------|------|------|--|
| a | Does the well cap prevent entry of foreign material into the well?                                                                           | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?                                            | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| c | Does the well have a venting hole near the top of casing?                                                                                    | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| d | Is the survey point clearly marked on the inner casing?                                                                                      | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| e | Is the depth of the well consistent with the original well log?                                                                              | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No    | No    | No    | No     | No     | No    | No    | No   | No   | No   |  |

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 9/14/2020

5 - Sampling (Groundwater Monitoring Wells Only):

|   |                                                                                  | GWC-1 | GWC-2 | GWC-3 | GWC-4A | GWC-4B | GWC-5 | GWC-6 | PZ-1 | PZ-2 | PZ-3 |  |
|---|----------------------------------------------------------------------------------|-------|-------|-------|--------|--------|-------|-------|------|------|------|--|
| a | Does the well recharge adequately when purged?                                   | Yes   | Yes   | N/A   | Yes    | N/A    | Yes   | Yes   | N/A  | N/A  | N/A  |  |
| b | If dedicated sampling equipment is installed, is it in good condition?           | N/A   | N/A   | N/A   | N/A    | N/A    | N/A   | N/A   | N/A  | N/A  | N/A  |  |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | No    | No    | N/A   | No     | N/A    | No    | No    | N/A  | N/A  | N/A  |  |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

|                                                                                                                                         | GWC-1 | GWC-2 | GWC-3 | GWC-4A | GWC-4B | GWC-5 | GWC-6 | PZ-1 | PZ-2 | PZ-3 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|--------|--------|-------|-------|------|------|------|--|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and<br>2) comply with the applicable regulatory requirements? | Yes   | Yes   | Yes   | Yes    | Yes    | Yes   | Yes   | Yes  | Yes  | Yes  |  |

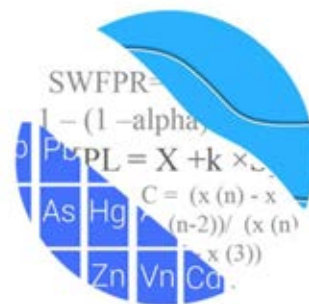
7 - Corrective actions completed and Notes:

- 1) GWC-4A and GWC-4B: Redrilled weep hole

## APPENDIX C

### STATISTICAL ANALYSIS REPORTS

## GROUNDWATER STATS CONSULTING



February 23, 2021

Southern Company Services  
Attn: Ms. Kristen Jurinko  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308

Re: Plant McIntosh Landfill #3  
Statistical Analysis – September 2020 Semi- Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the September 2020 semi-annual sample event for Georgia Power Company's Plant McIntosh Landfill #3. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the CCR program in 2016, and sampling for 16 parameters in accordance with the Georgia EPD's Solid Waste Permit began for some wells in 1999. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data are screened in this report.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-1A, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
- **Downgradient wells:** GWC-1, GWC-2, GWC-4A, GWC-5 and GWC-6

At least 8 background samples have been collected at each of the groundwater monitoring wells except for upgradient wells GWA-2B and GWA-7A which have insufficient data for calculation of prediction limits. Additionally, during this sample event, well GWC-3 was inaccessible; therefore, no prediction limits are included for this well in this report. Upgradient wells GWA-2A, GWA-3B, GWA-7 and downgradient wells GWC-3 and GWC-4B were removed from the monitoring program prior to the September 2020 sampling event.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The following constituents were evaluated in this report:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD** - barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of well/constituent pairs with 100% nondetects follows this letter.

Due to varying detection limits in background data sets, generally due to improved laboratory practices, a substitution of the most recent reporting limit is used for all nondetects when computing prediction limits. 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 contained 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. In the time series plots, however, no substitutions are made. The data are printed and plotted as originally recorded.

Time series plots for reported Appendix III (CCR) and IV (Georgia EPD) parameters are provided for all wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were evaluated during the background screening in 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below, and were based on the following:

### **CCR Appendix III Constituents:**

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (chloride, pH, sulfate, TDS)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, fluoride)
- # Constituents: 7
- # Downgradient wells: 5

### **Georgia EPD Constituents:**

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (Georgia EPD constituents)
- # Constituents: 7
- # Downgradient wells: 5

## **Summary of CCR Appendix III Background Screening Conducted in 2019**

### **Outlier and Trend Testing**

Time series plots are used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III (as well as Appendix IV) parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

When suspected outliers were evaluated using the Tukey box plot method, several outliers were identified. Those findings were submitted with the screening report, and a summary of flagged values follows this letter (Figure C). Note that for some well/constituent pairs,



the test identified multiple outliers. However, in many of those cases, only the highest value(s) were flagged as outliers as the remaining values were similar to other measurements within the same well or neighboring wells. In other cases, the test did not identify an outlier; however, the highest measurement(s) did not appear to represent the population and were flagged as outliers in the database to establish limits that are conservative from a regulatory perspective.

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.

No 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 visually apparent, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. 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, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and are deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing trends and two statistically significant increasing trends in upgradient wells for the Appendix III parameters. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets. Trend test results were included with the screening report.

### Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical

limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for the following Appendix III parameters: boron and fluoride, making these constituents eligible for interwell analyses. Variation was noted for calcium, chloride, pH, sulfate, and TDS. These constituents were further evaluated as described below for the appropriateness of intrawell testing. A summary table of the ANOVA results was included with the screening report.

#### Appendix III – Intrawell Method Eligibility Screening

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are conservative (i.e. lower) from a regulatory perspective, and that will rapidly identify a change in more recent compliance data from within a given well. 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. Prior to performing intrawell prediction limits, several steps are required to reasonably demonstrate downgradient water quality does not have existing impacts from the practices of the facility.

For all Appendix III parameters recommended for intrawell analyses, exploratory data analysis was used as a general comparison of concentrations in downgradient wells to concentrations reported in upgradient wells. Upper tolerance limits were used in conjunction with confidence intervals to determine whether the estimated averages in downgradient wells are higher than observed levels upgradient of the facility. The upper tolerance limits were constructed to represent the extreme upper range of possible background levels at the site. Two-sided tolerance limits were included for pH and represent both the upper and lower ranges of possible measurements in background wells.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent, an independent study and hydrogeological investigation would be required to identify local geochemical conditions and expected groundwater quality for the region to justify an intrawell approach. Such

an assessment is beyond the scope of services provided by Groundwater Stats Consulting. When there is not an obvious explanation for observed concentration differences in downgradient wells relative to reported concentrations in upgradient wells, interwell prediction limits will initially be selected for the statistical method until further evidence shows that concentrations are due to natural variation rather than a result of the facility.

Parametric tolerance limits were constructed with a target of 99% confidence and 95% coverage using pooled upgradient well data for each of the Appendix III parameters recommended for intrawell analyses. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As more data are collected, the background population is better represented, and the confidence and coverage levels increase.

Confidence intervals were constructed on downgradient wells for each of the Appendix III parameters exhibiting spatial variation, using the tolerance limits discussed above, to determine intrawell eligibility. When the entire confidence interval is above a background standard for a given parameter, interwell methods are initially recommended as the statistical method. Note that this screening identifies whether confidence intervals are above a background standard but does not identify the reason for this occurrence. Therefore, only the wells/parameters with confidence intervals which did not exceed background standards are eligible for intrawell prediction limits.

For parameters where intrawell analyses are recommended, no confidence interval exceedances were noted for chloride, pH, sulfate, and TDS. The confidence interval for calcium at well GWC-5 slightly exceeded its respective limit.

Therefore, based on the above screening, interwell methods are initially recommended for boron, calcium, and fluoride while intrawell methods are recommended for chloride, pH, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background. If further evaluation confirms natural variation in groundwater rather than impacts of the facility, intrawell methods will be considered for parameters currently recommended for interwell methods.

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 will be necessary to

accommodate these types of changes. In the interwell case, newer data will be included during each sample event after careful screening for new outliers in upgradient wells. In the intrawell case, data for all wells and constituents are 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 in order 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.

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 the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary.

- The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. The following approaches are used for handling nondetects (USEPA, 2009): No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

### 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 provide

reasonable evidence that the initial intrawell statistical exceedance is a result of natural variation rather than facility impact.

## **Summary of Background Screening for Georgia EPD Constituents - Conducted in 2019**

### Outliers

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 are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a few outliers were identified. Those findings were included in the screening report, and a summary of flagged values follows this letter (Figure C). As a general rule, when the most recent values are identified as outliers, values are not flagged in the database at that time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Due to changing reporting limits for many constituents, when the nondetects are replaced with the most recent reporting limit, previously flagged "J" values (or estimated values) may require flagging as outliers if they are much higher than current reporting limits. Additionally, in some cases historical nondetects require flagging because the reporting limit substitution results in these values being considerably higher than reported values. Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported nondetects. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated.

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.

## Seasonality

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.

## Trend Testing

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The results of the trend analysis were provided with the summary report.

Several statistically significant decreasing trends were noted in both upgradient and downgradient wells. No statistically significant increasing trends were noted except for barium in upgradient wells GWA-2A, GWA-3A and GWA-4. Of the trends identified, the majority were low relative to the average concentrations at their respective wells and, therefore, required no adjustments. However, the records for chromium at wells GWA-1A and GWC-2 contained several higher measurements earlier in the record which required deselection so that resulting statistical limits are lower and capable of detecting future changes at a given well. Barium in well GWC-1 required deselection of the earlier portion of the record, through 2012, which contained higher reported measurements than those observed currently. The recent increasing trend in barium at well GWC-5 (not currently adjusted) will require careful attention over the next few monitoring events. If the higher concentrations persist and cannot be explained by a source other than the facility, then that well/constituent pair should be placed in tracking mode and evaluated by a trend test rather than a prediction limit. A list of adjusted background date ranges for those special cases 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 significant differences among upgradient well data for all constituents except beryllium. Therefore, because this is a lined landfill with pre-waste data showing that metals occur naturally in low level concentrations, and no records were adjusted due to statistically significant increasing trends in downgradient well data, intrawell methods are recommended as the primary statistical method for all detected Georgia EPD well/constituent pairs. However, as noted above, barium at well GWC-5, though not yet adjusted, will require careful attention and further study.

## **Statistical Analysis of Appendix III Parameters – September 2020**

For chloride, pH, sulfate, and TDS, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical background data through October 2018 (Figure D). Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background.

For boron, calcium, and fluoride, interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all upgradient historical data through September 2020 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. If the resample falls within the statistical limit, the initial exceedance is



considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance for interwell sampling but may be further evaluated using the 2-step approach for intrawell sampling. Summary tables of the Appendix III prediction limits follow this letter. The following prediction limit exceedances were noted for Appendix III parameters:

Intrawell:

- Chloride: GWA-3A (upgradient), GWC-1 (downgradient)

Interwell:

- None

Interwell prediction limits were then constructed for the 2-step statistical approach discussed earlier, using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedance (Figure F). The reported measurement of chloride in this well was within the interwell prediction limit of 20 mg/L. Therefore, no statistically significant increase is identified, 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 along with upgradient wells for the same constituents (Figure G). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site. No statistically significant trends were noted in downgradient wells. Statistically significant increasing trends were identified for chloride in upgradient wells GWA-3A and GWA-4. Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality. A summary of the trend test results follows this letter.

### **Statistical Analysis of Georgia EPD Parameters – September 2020**

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data within each well with detections through October 2018 for the majority of constituents (Figure H). Copper, vanadium, and zinc used data through July 2018 for background during this analysis. As previously discussed, no statistical analyses were included for well/constituent pairs where there are 100% nondetects in the downgradient well. A summary table of the prediction limits and exceedances follows this letter, along with the complete prediction limits results. The following prediction limit exceedances were noted for the State parameters:

Intrawell:

- Barium: GWA-3A (upgradient)
- Zinc: GWC-2, GWC-4A, and GWC-5

In cases where downgradient average concentrations are higher than observed concentrations upgradient for a given constituent where intrawell analyses are used, 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.

Interwell prediction limits were then constructed for the 2-step statistical approach discussed earlier using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedances for zinc at downgradient wells (Figure I). The reported measurements of zinc in the downgradient wells were within the interwell prediction limit. Therefore, 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 along with upgradient wells for the same constituents (Figure J). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant decreasing trends were noted for zinc in upgradient wells GWA-1A, GWA-3A, GWA-4, GWA-5 and downgradient well GWC-2. Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality. A summary of the trend test results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McIntosh Landfill #3. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner  
Groundwater Analyst



Kristina L. Rayner  
Groundwater Statistician

## Date Ranges

Date: 11/17/2020 1:43 PM

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

---

Barium (mg/L)

GWC-1 background:1/21/2013-10/9/2018

Chromium (mg/L)

GWA-1A background:11/10/2000-10/8/2018

GWC-2 background:9/13/2000-10/9/2018

## 100% Non-Detects: n/a

Analysis Run 11/17/2020 1:38 PM View: 100% ND  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

---

Chromium (mg/L)  
GWA-7A

Copper (mg/L)  
GWC-4A

Fluoride (mg/L)  
GWA-7A, GWC-1, GWC-6

Lead (mg/L)  
GWA-7A, GWC-1, GWC-4A

Vanadium, Dissolved (mg/L)  
GWA-1A, GWC-6

# Intrawell Prediction Limit Summary - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg.N</u> | <u>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-3A      | 15.76             | n/a               | 9/21/2020   | 19             | Yes         | 8           | 8.963          | 2.481           | 0           | None           | No               | 0.001504     | Param Intra 1 of 2 |
| Chloride (mg/L)    | GWC-1       | 6.841             | n/a               | 9/22/2020   | 6.9            | Yes         | 8           | 4.938          | 0.6948          | 0           | None           | No               | 0.001504     | Param Intra 1 of 2 |

# Intrawell Prediction Limit Summary - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:06 PM

| Constituent                   | Well          | Upper Lim.   | Lower Lim. | Date             | Observ.    | Sig.       | Bg       | NBg          | Mean          | Std. Dev. | %NDs        | ND Adj.   | Transform | Alpha           | Method                    |
|-------------------------------|---------------|--------------|------------|------------------|------------|------------|----------|--------------|---------------|-----------|-------------|-----------|-----------|-----------------|---------------------------|
| Chloride (mg/L)               | GWA-1A        | 8.837        | n/a        | 9/21/2020        | 8.1        | No         | 8        | 8.063        | 0.2825        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| <b>Chloride (mg/L)</b>        | <b>GWA-3A</b> | <b>15.76</b> | <b>n/a</b> | <b>9/21/2020</b> | <b>19</b>  | <b>Yes</b> | <b>8</b> | <b>8.963</b> | <b>2.481</b>  | <b>0</b>  | <b>None</b> | <b>No</b> |           | <b>0.001504</b> | <b>Param Intra 1 of 2</b> |
| Chloride (mg/L)               | GWA-4         | 7.253        | n/a        | 9/21/2020        | 5.4        | No         | 8        | 4.788        | 0.8999        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWA-5         | 23.64        | n/a        | 9/22/2020        | 6.3        | No         | 8        | 9.788        | 5.057         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| <b>Chloride (mg/L)</b>        | <b>GWC-1</b>  | <b>6.841</b> | <b>n/a</b> | <b>9/22/2020</b> | <b>6.9</b> | <b>Yes</b> | <b>8</b> | <b>4.938</b> | <b>0.6948</b> | <b>0</b>  | <b>None</b> | <b>No</b> |           | <b>0.001504</b> | <b>Param Intra 1 of 2</b> |
| Chloride (mg/L)               | GWC-2         | 5.864        | n/a        | 9/22/2020        | 5.4        | No         | 8        | 5.45         | 0.1512        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-4A        | 19.89        | n/a        | 9/22/2020        | 11         | No         | 8        | 14.63        | 1.923         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-5         | 13.14        | n/a        | 9/22/2020        | 8.3        | No         | 8        | 4.85         | 3.027         | 37.5      | Kapla...    | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-6         | 8.863        | n/a        | 9/22/2020        | 7.6        | No         | 7        | 7.343        | 0.5028        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-1A        | 5.995        | 4.439      | 9/21/2020        | 4.95       | No         | 27       | 2.278        | 0.08656       | 0         | None        | sqrt(x)   |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-3A        | 6.42         | 3.59       | 9/21/2020        | 4.69       | No         | 29       | n/a          | n/a           | 0         | n/a         | n/a       |           | 0.004345        | NP Intra (normality) ...  |
| pH (S.U.)                     | GWA-4         | 5.958        | 3.912      | 9/21/2020        | 4.6        | No         | 28       | 4.935        | 0.521         | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-5         | 5.585        | 3.442      | 9/22/2020        | 4.99       | No         | 28       | 4.513        | 0.5456        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-1         | 5.622        | 3.839      | 9/22/2020        | 4.66       | No         | 27       | 23.17        | 4.275         | 0         | None        | x^2       |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-2         | 5.97         | 4.205      | 9/22/2020        | 5.04       | No         | 29       | 5.087        | 0.4515        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-4A        | 5.261        | 4.143      | 9/22/2020        | 4.92       | No         | 27       | 4.702        | 0.2834        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-5         | 8.049        | 3.606      | 9/22/2020        | 5.87       | No         | 28       | 2.368        | 0.2389        | 0         | None        | sqrt(x)   |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-6         | 5.825        | 4.404      | 9/22/2020        | 4.73       | No         | 28       | 5.114        | 0.3619        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWA-1A        | 2.7          | n/a        | 9/21/2020        | 1ND        | No         | 8        | n/a          | n/a           | 87.5      | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWA-3A        | 1            | n/a        | 9/21/2020        | 1ND        | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWA-4         | 8.482        | n/a        | 9/21/2020        | 5          | No         | 8        | 4.513        | 1.449         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWA-5         | 37.31        | n/a        | 9/22/2020        | 12         | No         | 8        | 18.88        | 6.728         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-1         | 1            | n/a        | 9/22/2020        | 0.63J      | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWC-2         | 1            | n/a        | 9/22/2020        | 1ND        | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWC-4A        | 2.25         | n/a        | 9/22/2020        | 0.76J      | No         | 8        | 1.096        | 0.421         | 12.5      | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-5         | 150.4        | n/a        | 9/22/2020        | 4.3        | No         | 8        | 5.799        | 2.359         | 0         | None        | sqrt(x)   |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-6         | 1.435        | n/a        | 9/22/2020        | 0.59J      | No         | 7        | 0.92         | 0.1704        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-1A        | 133.9        | n/a        | 9/21/2020        | 31         | No         | 7        | 52.29        | 26.99         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-3A        | 80.43        | n/a        | 9/21/2020        | 61         | No         | 8        | 32.75        | 17.4          | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-4         | 51.76        | n/a        | 9/21/2020        | 31         | No         | 8        | 20.81        | 11.29         | 12.5      | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-5         | 117.1        | n/a        | 9/22/2020        | 53         | No         | 8        | 48.5         | 25.04         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-1         | 69           | n/a        | 9/22/2020        | 5ND        | No         | 8        | 24           | 16.42         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-2         | 77.05        | n/a        | 9/22/2020        | 30         | No         | 8        | 38.75        | 13.98         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-4A        | 68.34        | n/a        | 9/22/2020        | 36         | No         | 8        | 26.25        | 15.36         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-5         | 620.5        | n/a        | 9/22/2020        | 440        | No         | 8        | 204.8        | 151.7         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-6         | 94.76        | n/a        | 9/22/2020        | 30         | No         | 7        | 66.86        | 9.227         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |

# Interwell Prediction Limit Summary - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 1:58 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-1  | 1.9        | n/a        | 9/22/2020 | 0.098   | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-2  | 1.9        | n/a        | 9/22/2020 | 0.083   | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-4A | 1.9        | n/a        | 9/22/2020 | 0.053J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-5  | 1.9        | n/a        | 9/22/2020 | 0.045J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-6  | 1.9        | n/a        | 9/22/2020 | 0.048J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-1  | 20         | n/a        | 9/22/2020 | 0.21J   | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-2  | 20         | n/a        | 9/22/2020 | 2.1     | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-4A | 20         | n/a        | 9/22/2020 | 0.51    | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-5  | 20         | n/a        | 9/22/2020 | 8       | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-6  | 20         | n/a        | 9/22/2020 | 1.9     | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Fluoride (mg/L) | GWC-2  | 0.21       | n/a        | 9/22/2020 | 0.1ND   | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |
| Fluoride (mg/L) | GWC-4A | 0.21       | n/a        | 9/22/2020 | 0.1ND   | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |
| Fluoride (mg/L) | GWC-5  | 0.21       | n/a        | 9/22/2020 | 0.1     | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |

# Interwell Prediction Limit Summary (Intrawell Exceedances)

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 11/17/2020, 2:44 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg.N</u> | <u>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)    | GWC-1       | 20                | n/a               | 9/22/2020   | 6.9            | No          | 65          | n/a            | n/a             | 0           | n/a            | n/a              | 0.0004556    | NP Inter (normality) ... |



# Trend Test - Significant Results

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 11/17/2020, 2:13 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> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride (mg/L)    | GWA-3A (bg) | 3.85         | 87           | 44              | Yes         | 14       | 0           | n/a              | n/a          | 0.02         | NP            |
| Chloride (mg/L)    | GWA-4 (bg)  | 0.6368       | 43           | 39              | Yes         | 13       | 0           | n/a              | n/a          | 0.02         | NP            |

# Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:13 PM

| Constituent            | Well               | Slope         | Calc.     | Critical  | Sig.       | N         | %NDs     | Normality  | Xform      | Alpha       | Method    |
|------------------------|--------------------|---------------|-----------|-----------|------------|-----------|----------|------------|------------|-------------|-----------|
| Chloride (mg/L)        | GWA-1A (bg)        | 0             | 4         | 39        | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWA-2B (bg)        | 0.4251        | 9         | 13        | No         | 6         | 0        | n/a        | n/a        | 0.02        | NP        |
| <b>Chloride (mg/L)</b> | <b>GWA-3A (bg)</b> | <b>3.85</b>   | <b>87</b> | <b>44</b> | <b>Yes</b> | <b>14</b> | <b>0</b> | <b>n/a</b> | <b>n/a</b> | <b>0.02</b> | <b>NP</b> |
| <b>Chloride (mg/L)</b> | <b>GWA-4 (bg)</b>  | <b>0.6368</b> | <b>43</b> | <b>39</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>n/a</b> | <b>n/a</b> | <b>0.02</b> | <b>NP</b> |
| Chloride (mg/L)        | GWA-5 (bg)         | 0.189         | 7         | 39        | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWA-7A (bg)        | -0.1534       | -2        | -13       | No         | 6         | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWC-1              | 0             | -1        | -39       | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |

# Intrawell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:31 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) | GWA-3A | 0.05764    | n/a        | 9/21/2020 | 0.083   | Yes  | 44   | 0.04428 | 0.007109  | 0     | None    | No        | 0.001504 | Param Intra 1 of 2          |
| Zinc (mg/L)   | GWC-2  | 0.028      | n/a        | 9/22/2020 | 0.029   | Yes  | 40   | n/a     | n/a       | 25    | n/a     | n/a       | 0.001159 | NP Intra (normality) 1 of 2 |
| Zinc (mg/L)   | GWC-4A | 0.012      | n/a        | 9/22/2020 | 0.017   | Yes  | 39   | n/a     | n/a       | 48.72 | n/a     | n/a       | 0.001226 | NP Intra (normality) 1 of 2 |
| Zinc (mg/L)   | GWC-5  | 0.0369     | n/a        | 9/22/2020 | 0.037   | Yes  | 41   | -4.113  | 0.43      | 9.756 | None    | ln(x)     | 0.001504 | Param Intra 1 of 2          |

# Intrawell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:31 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)        | GWA-1A        | 0.2            | n/a        | 9/21/2020        | 0.023        | No         | 44        | n/a            | n/a             | 0            | n/a         | n/a          | 0.0009963       | NP Intra (normality) 1 of 2        |
| <b>Barium (mg/L)</b> | <b>GWA-3A</b> | <b>0.05764</b> | <b>n/a</b> | <b>9/21/2020</b> | <b>0.083</b> | <b>Yes</b> | <b>44</b> | <b>0.04428</b> | <b>0.007109</b> | <b>0</b>     | <b>None</b> | <b>No</b>    | <b>0.001504</b> | <b>Param Intra 1 of 2</b>          |
| Barium (mg/L)        | GWA-4         | 0.05416        | n/a        | 9/21/2020        | 0.052        | No         | 45        | 0.03687        | 0.009212        | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWA-5         | 0.1787         | n/a        | 9/22/2020        | 0.078        | No         | 44        | 0.09875        | 0.04255         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-1         | 0.05862        | n/a        | 9/22/2020        | 0.022        | No         | 16        | 0.1593         | 0.03852         | 0            | None        | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-2         | 0.0871         | n/a        | 9/22/2020        | 0.061        | No         | 45        | 0.0647         | 0.01194         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-4A        | 0.08446        | n/a        | 9/22/2020        | 0.031        | No         | 45        | 0.05131        | 0.01767         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-5         | 0.6045         | n/a        | 9/22/2020        | 0.51         | No         | 44        | -1.326         | 0.4377          | 0            | None        | ln(x)        | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-6         | 0.075          | n/a        | 9/22/2020        | 0.051        | No         | 43        | n/a            | n/a             | 0            | n/a         | n/a          | 0.001037        | NP Intra (normality) 1 of 2        |
| Beryllium (mg/L)     | GWA-1A        | 0.0028         | n/a        | 9/21/2020        | 0.0002J      | No         | 44        | n/a            | n/a             | 86.36        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-3A        | 0.0025         | n/a        | 9/21/2020        | 0.00054J     | No         | 45        | n/a            | n/a             | 80           | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 88.89        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-5         | 0.0036         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 80           | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-1         | 0.0025         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 95.56        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-2         | 0.0025         | n/a        | 9/22/2020        | 0.00025J     | No         | 45        | n/a            | n/a             | 86.67        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-4A        | 0.0025         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 93.33        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-5         | 0.0029         | n/a        | 9/22/2020        | 0.0011J      | No         | 45        | n/a            | n/a             | 73.33        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-6         | 0.0025         | n/a        | 9/22/2020        | 0.00021J     | No         | 44        | n/a            | n/a             | 86.36        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWA-1A        | 0.02461        | n/a        | 9/21/2020        | 0.0049       | No         | 39        | 0.08981        | 0.0353          | 12.82        | None        | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Chromium (mg/L)      | GWA-3A        | 0.0059         | n/a        | 9/21/2020        | 0.002ND      | No         | 45        | n/a            | n/a             | 37.78        | n/a         | n/a          | 0.0009557       | NP Intra (normality) 1 of 2        |
| Chromium (mg/L)      | GWA-4         | 0.0087         | n/a        | 9/21/2020        | 0.002ND      | No         | 44        | n/a            | n/a             | 81.82        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWA-5         | 0.0067         | n/a        | 9/22/2020        | 0.0017J      | No         | 44        | n/a            | n/a             | 52.27        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-1         | 0.002          | n/a        | 9/22/2020        | 0.0017J      | No         | 44        | n/a            | n/a             | 97.73        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-2         | 0.004562       | n/a        | 9/22/2020        | 0.0036       | No         | 41        | 0.04977        | 0.009395        | 24.39        | Kapla...    | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Chromium (mg/L)      | GWC-4A        | 0.0029         | n/a        | 9/22/2020        | 0.002ND      | No         | 43        | n/a            | n/a             | 95.35        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-5         | 0.0025         | n/a        | 9/22/2020        | 0.002ND      | No         | 42        | n/a            | n/a             | 90.48        | n/a         | n/a          | 0.001077        | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-6         | 0.0025         | n/a        | 9/22/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 87.8         | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-1A        | 0.0055         | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 85.37        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-3A        | 0.00205        | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-5         | 0.005          | n/a        | 9/22/2020        | 0.0013J      | No         | 37        | n/a            | n/a             | 83.78        | n/a         | n/a          | 0.001361        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-1         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 40        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-2         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 39        | n/a            | n/a             | 97.44        | n/a         | n/a          | 0.001226        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-5         | 0.0026         | n/a        | 9/22/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 95.12        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-6         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 40        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-1A        | 0.00125        | n/a        | 9/21/2020        | 0.001ND      | No         | 38        | n/a            | n/a             | 94.74        | n/a         | n/a          | 0.001294        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-3A        | 0.001          | n/a        | 9/21/2020        | 0.001ND      | No         | 45        | n/a            | n/a             | 97.78        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-4         | 0.0023         | n/a        | 9/21/2020        | 0.00025J     | No         | 44        | n/a            | n/a             | 95.45        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-5         | 0.0013         | n/a        | 9/22/2020        | 0.0012       | No         | 44        | n/a            | n/a             | 84.09        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-2         | 0.001          | n/a        | 9/22/2020        | 0.001ND      | No         | 43        | n/a            | n/a             | 97.67        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-5         | 0.001          | n/a        | 9/22/2020        | 0.00013J     | No         | 43        | n/a            | n/a             | 97.67        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-6         | 0.0073         | n/a        | 9/22/2020        | 0.001ND      | No         | 43        | n/a            | n/a             | 90.7         | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-1A        | 0.055          | n/a        | 9/21/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 43.9         | n/a         | n/a          | 0.001118        | NP Intra (normality) 1 of 2        |
| Vanadium (mg/L)      | GWA-3A        | 0.0038         | n/a        | 9/21/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 95.12        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.0012       | No         | 40        | n/a            | n/a             | 95           | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-5         | 0.0082         | n/a        | 9/22/2020        | 0.0056       | No         | 39        | n/a            | n/a             | 82.05        | n/a         | n/a          | 0.001226        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-1         | 0.0063         | n/a        | 9/22/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-2         | 0.0062         | n/a        | 9/22/2020        | 0.001ND      | No         | 40        | n/a            | n/a             | 92.5         | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-4A        | 0.001          | n/a        | 9/22/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-5         | 0.017          | n/a        | 9/22/2020        | 0.0015       | No         | 40        | n/a            | n/a             | 85           | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-6         | 0.0021         | n/a        | 9/22/2020        | 0.0011       | No         | 40        | n/a            | n/a             | 97.5         | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Zinc (mg/L)          | GWA-1A        | 0.074          | n/a        | 9/21/2020        | 0.005ND      | No         | 41        | n/a            | n/a             | 31.71        | n/a         | n/a          | 0.001118        | NP Intra (normality) 1 of 2        |
| Zinc (mg/L)          | GWA-3A        | 0.02           | n/a        | 9/21/2020        | 0.0055       | No         | 38        | n/a            | n/a             | 52.63        | n/a         | n/a          | 0.001294        | NP Intra (NDs) 1 of 2              |
| Zinc (mg/L)          | GWA-4         | 0.03318        | n/a        | 9/21/2020        | 0.013        | No         | 41        | 0.1018         | 0.04245         | 19.51        | Kapla...    | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Zinc (mg/L)          | GWA-5         | 0.068          | n/a        | 9/22/2020        | 0.039        | No         | 40        | n/a            | n/a             | 20           | n/a         | n/a          | 0.001159        | NP Intra (normality) 1 of 2        |
| Zinc (mg/L)          | GWC-1         | 0.015          | n/a        | 9/22/2020        | 0.005ND      | No         | 41        | n/a            | n/a             | 53.66        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| <b>Zinc (mg/L)</b>   | <b>GWC-2</b>  | <b>0.028</b>   | <b>n/a</b> | <b>9/22/2020</b> | <b>0.029</b> | <b>Yes</b> | <b>40</b> | <b>n/a</b>     | <b>n/a</b>      | <b>25</b>    | <b>n/a</b>  | <b>n/a</b>   | <b>0.001159</b> | <b>NP Intra (normality) 1 of 2</b> |
| <b>Zinc (mg/L)</b>   | <b>GWC-4A</b> | <b>0.012</b>   | <b>n/a</b> | <b>9/22/2020</b> | <b>0.017</b> | <b>Yes</b> | <b>39</b> | <b>n/a</b>     | <b>n/a</b>      | <b>48.72</b> | <b>n/a</b>  | <b>n/a</b>   | <b>0.001226</b> | <b>NP Intra (normality) 1 of 2</b> |
| <b>Zinc (mg/L)</b>   | <b>GWC-5</b>  | <b>0.0369</b>  | <b>n/a</b> | <b>9/22/2020</b> | <b>0.037</b> | <b>Yes</b> | <b>41</b> | <b>-4.113</b>  | <b>0.43</b>     | <b>9.756</b> | <b>None</b> | <b>ln(x)</b> | <b>0.001504</b> | <b>Param Intra 1 of 2</b>          |
| Zinc (mg/L)          | GWC-6         | 0.025          | n/a        | 9/22/2020        | 0.0053       | No         | 35        | n/a            | n/a             | 34.29        | n/a         | n/a          | 0.001497        | NP Intra (normality) 1 of 2        |

# Interwell Prediction Limits (Intrawell Exceedances)

Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR    Printed 12/2/2020, 12:40 PM

| Constituent | Well   | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg  | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha      | Method                      |
|-------------|--------|------------|------------|-----------|---------|------|-----|-----|------|-----------|------|---------|-----------|------------|-----------------------------|
| Zinc (mg/L) | GWC-2  | 0.074      | n/a        | 9/22/2020 | 0.029   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |
| Zinc (mg/L) | GWC-4A | 0.074      | n/a        | 9/22/2020 | 0.017   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |
| Zinc (mg/L) | GWC-5  | 0.074      | n/a        | 9/22/2020 | 0.037   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |

# Trend Test - Significant Results

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 12/2/2020, 12:38 PM

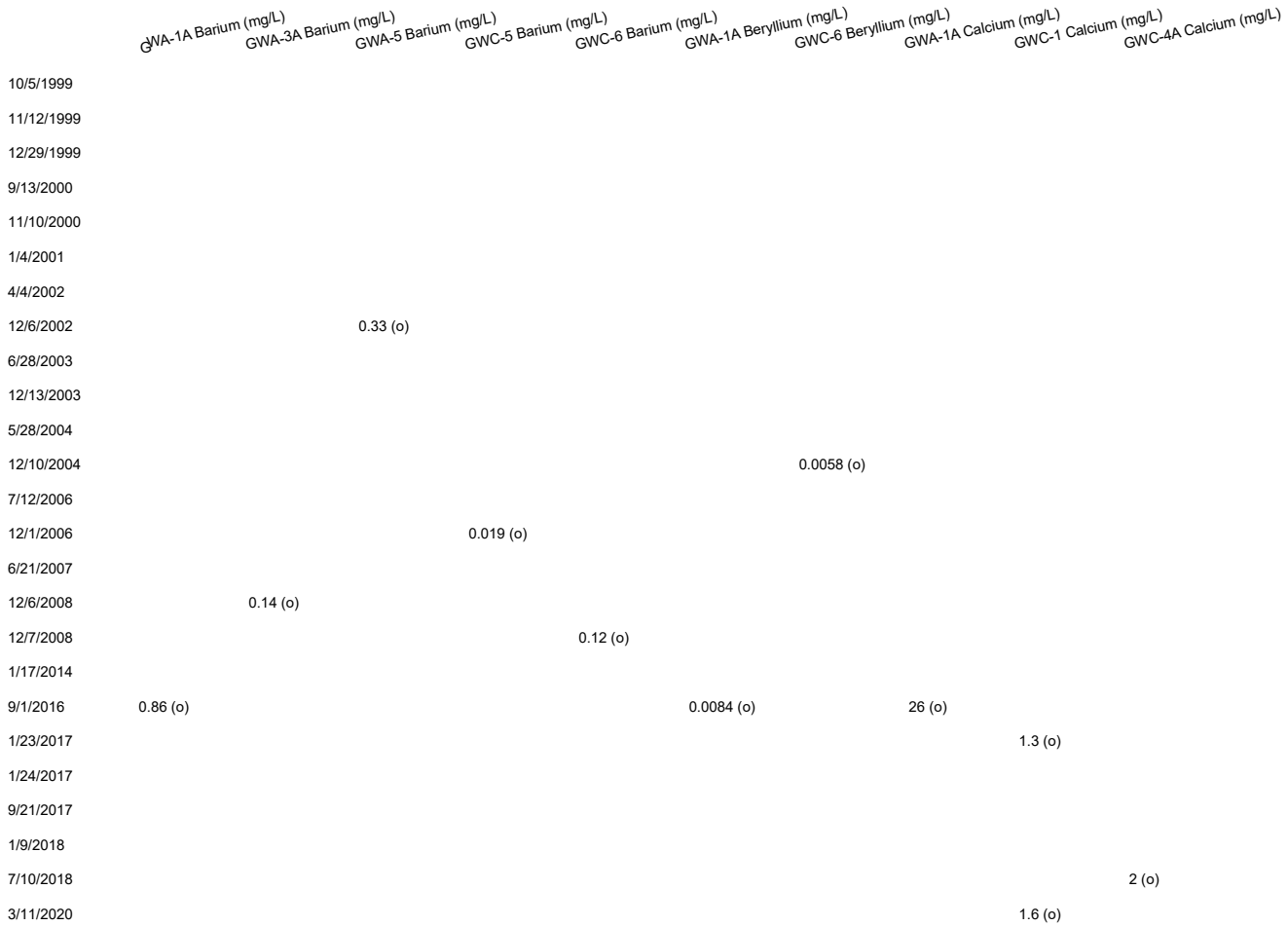
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Zinc (mg/L)        | GWA-1A (bg) | -0.0002468   | -2.5         | -2.33           | Yes         | 46       | 36.96       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-3A (bg) | -0.00006084  | -2.545       | -2.33           | Yes         | 44       | 47.73       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-4 (bg)  | -0.00083     | -3.576       | -2.33           | Yes         | 46       | 19.57       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-5 (bg)  | -0.0007204   | -4.419       | -2.33           | Yes         | 45       | 17.78       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWC-2       | -0.0005056   | -3.176       | -2.33           | Yes         | 45       | 24.44       | n/a              | n/a          | 0.02         | NP            |

# Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:38 PM

| <u>Constituent</u> | <u>Well</u>        | <u>Slope</u>      | <u>Calc.</u>  | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------------|-------------------|---------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| <b>Zinc (mg/L)</b> | <b>GWA-1A (bg)</b> | <b>-0.0002468</b> | <b>-2.5</b>   | <b>-2.33</b>    | <b>Yes</b>  | <b>46</b> | <b>36.96</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWA-2B (bg)        | -0.004426         | -6            | -10             | No          | 5         | 0            | n/a              | n/a          | 0.02         | NP            |
| <b>Zinc (mg/L)</b> | <b>GWA-3A (bg)</b> | <b>-0.0006084</b> | <b>-2.545</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>44</b> | <b>47.73</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| <b>Zinc (mg/L)</b> | <b>GWA-4 (bg)</b>  | <b>-0.00083</b>   | <b>-3.576</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>46</b> | <b>19.57</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| <b>Zinc (mg/L)</b> | <b>GWA-5 (bg)</b>  | <b>-0.0007204</b> | <b>-4.419</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>45</b> | <b>17.78</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWA-7A (bg)        | -0.001754         | -4            | -10             | No          | 5         | 0            | n/a              | n/a          | 0.02         | NP            |
| <b>Zinc (mg/L)</b> | <b>GWC-2</b>       | <b>-0.0005056</b> | <b>-3.176</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>45</b> | <b>24.44</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWC-4A             | 0                 | -0.5418       | -2.33           | No          | 44        | 47.73        | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWC-5              | -0.0004402        | -2.172        | -2.33           | No          | 46        | 8.696        | n/a              | n/a          | 0.02         | NP            |

Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR    Printed 12/2/2020, 12:49 PM





| Date       | Value | Unit       |
|------------|-------|------------|
| 10/5/1999  |       |            |
| 11/12/1999 |       |            |
| 12/29/1999 |       |            |
| 9/13/2000  |       |            |
| 11/10/2000 |       |            |
| 1/4/2001   |       | 0.016 (o)  |
| 4/4/2002   |       |            |
| 12/6/2002  | 0.027 | (o)        |
| 6/28/2003  | 0.007 | (o)        |
| 12/13/2003 |       | 0.008 (o)  |
| 5/28/2004  |       | 0.0089 (o) |
| 12/10/2004 | 0.74  | (o)        |
| 7/12/2006  | 0.023 | (o)        |
| 12/1/2006  |       | 0.021 (o)  |
| 6/21/2007  |       | 0.011 (o)  |
| 12/6/2008  |       | 0.0067 (o) |
| 12/7/2008  |       | 0.0057 (o) |
| 1/17/2014  |       | 0.0046 (o) |
| 9/1/2016   | 0.12  | (o)        |
| 1/23/2017  |       | 0.0059 (o) |
| 1/24/2017  |       | 0.0069 (o) |
| 9/21/2017  |       |            |
| 1/9/2018   |       |            |
| 7/10/2018  |       |            |
| 3/11/2020  |       | 0.0047 (o) |

|            |            |            |            |            |           |            |           |
|------------|------------|------------|------------|------------|-----------|------------|-----------|
| 10/5/1999  |            |            | 0.007 (o)  |            |           | 0.0054 (o) |           |
| 11/12/1999 |            |            | 0.0063 (o) |            |           |            |           |
| 12/29/1999 |            |            | 0.016 (o)  |            |           |            |           |
| 9/13/2000  |            |            |            |            |           | 0.0067 (o) | 0.079 (o) |
| 11/10/2000 |            |            |            |            |           |            |           |
| 1/4/2001   |            |            |            |            |           |            |           |
| 4/4/2002   |            |            |            |            |           |            |           |
| 12/6/2002  |            |            |            | 0.011 (o)  |           |            | 0.007 (o) |
| 6/28/2003  |            |            |            |            |           |            |           |
| 12/13/2003 |            |            |            |            |           |            | 0.018 (o) |
| 5/28/2004  |            |            | 0.015 (o)  |            |           |            |           |
| 12/10/2004 | 0.11 (o)   | 0.0044 (o) | 0.01 (o)   |            |           |            |           |
| 7/12/2006  |            |            | 0.013 (o)  |            |           |            |           |
| 12/1/2006  |            |            |            |            |           |            |           |
| 6/21/2007  |            |            |            |            |           |            |           |
| 12/6/2008  |            |            |            |            |           |            |           |
| 12/7/2008  |            |            |            |            |           |            |           |
| 1/17/2014  | 0.0065 (o) |            |            |            |           |            |           |
| 9/1/2016   |            |            | 0.082 (o)  |            |           |            |           |
| 1/23/2017  |            |            |            |            |           |            |           |
| 1/24/2017  |            |            |            |            |           |            |           |
| 9/21/2017  |            |            |            | 0.0076 (o) | 0.004 (o) | 0.0014 (o) |           |
| 1/9/2018   |            |            |            |            |           |            |           |
| 7/10/2018  |            |            |            |            |           |            |           |
| 3/11/2020  |            |            |            |            |           |            |           |

| Date       | Value  | Unit |
|------------|--------|------|
| 10/5/1999  | 0.015  | (o)  |
| 11/12/1999 | 0.023  | (o)  |
| 12/29/1999 |        |      |
| 9/13/2000  | 0.036  | (o)  |
| 11/10/2000 |        |      |
| 1/4/2001   |        |      |
| 4/4/2002   | 0.069  | (o)  |
| 12/6/2002  | 0.03   | (o)  |
| 6/28/2003  | 0.19   | (o)  |
| 12/13/2003 |        |      |
| 5/28/2004  |        |      |
| 12/10/2004 |        |      |
| 7/12/2006  |        |      |
| 12/1/2006  | 0.065  | (o)  |
| 6/21/2007  | 0.07   | (o)  |
| 12/6/2008  | 0.051  | (o)  |
| 12/7/2008  |        |      |
| 1/17/2014  |        |      |
| 9/1/2016   | 2200   | (o)  |
| 1/23/2017  |        |      |
| 1/24/2017  | 8.32   | (o)  |
| 9/21/2017  | 0.044  | (o)  |
| 1/9/2018   | 0.0072 | (o)  |
| 7/10/2018  |        |      |
| 3/11/2020  |        |      |

# Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:49 PM

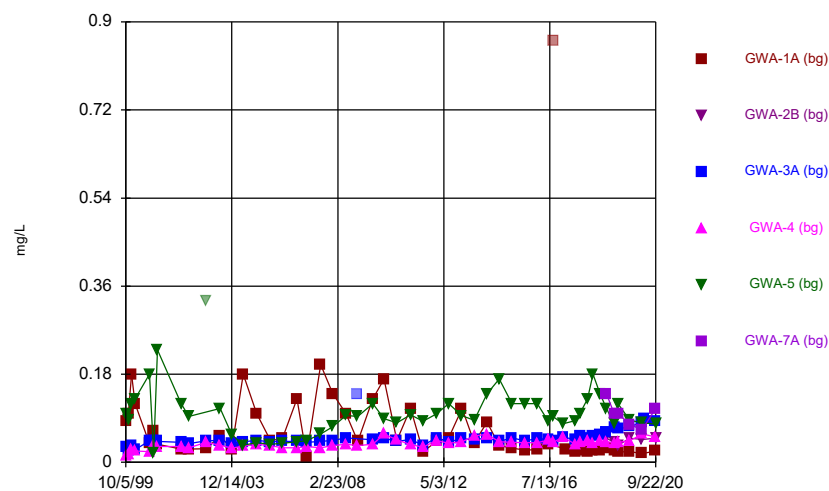
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GWC-6 Zinc (mg/L)

|            |           |
|------------|-----------|
| 10/5/1999  | 0.063 (o) |
| 11/12/1999 |           |
| 12/29/1999 |           |
| 9/13/2000  | 0.061 (o) |
| 11/10/2000 | 0.061 (o) |
| 1/4/2001   | 0.05 (o)  |
| 4/4/2002   |           |
| 12/6/2002  |           |
| 6/28/2003  |           |
| 12/13/2003 |           |
| 5/28/2004  |           |
| 12/10/2004 |           |
| 7/12/2006  |           |
| 12/1/2006  |           |
| 6/21/2007  |           |
| 12/6/2008  |           |
| 12/7/2008  | 0.044 (o) |
| 1/17/2014  |           |
| 9/1/2016   |           |
| 1/23/2017  |           |
| 1/24/2017  |           |
| 9/21/2017  |           |
| 1/9/2018   |           |
| 7/10/2018  |           |
| 3/11/2020  |           |

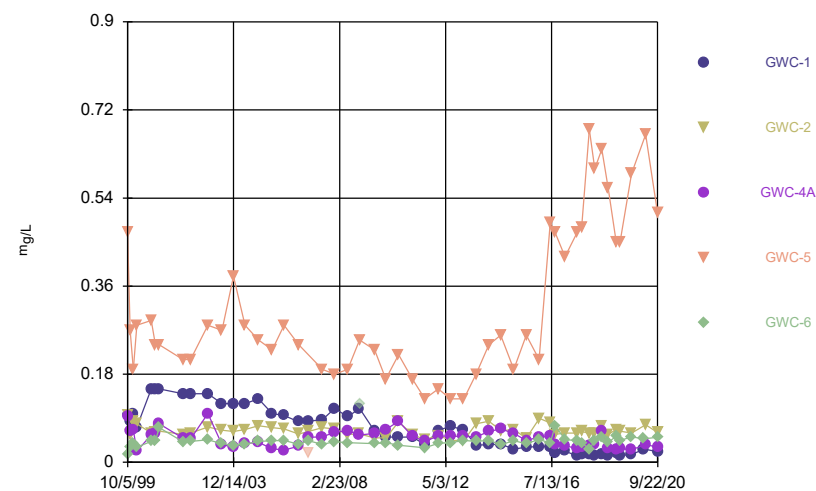
FIGURE A.

Time Series



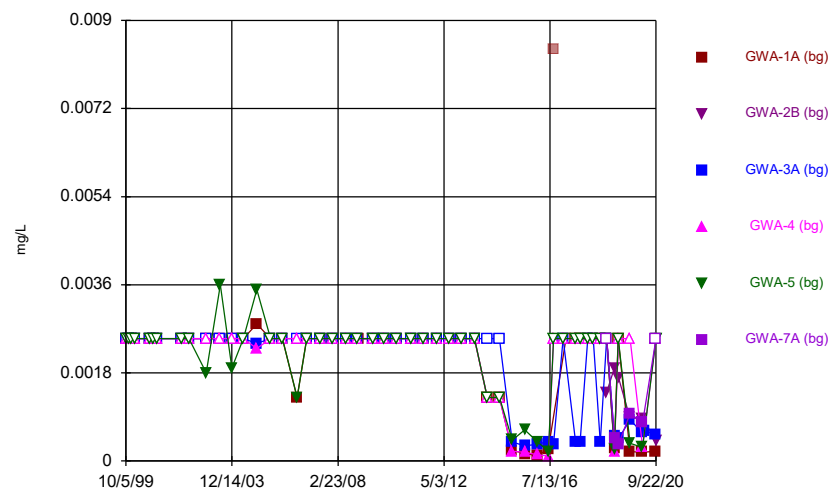
Constituent: Barium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



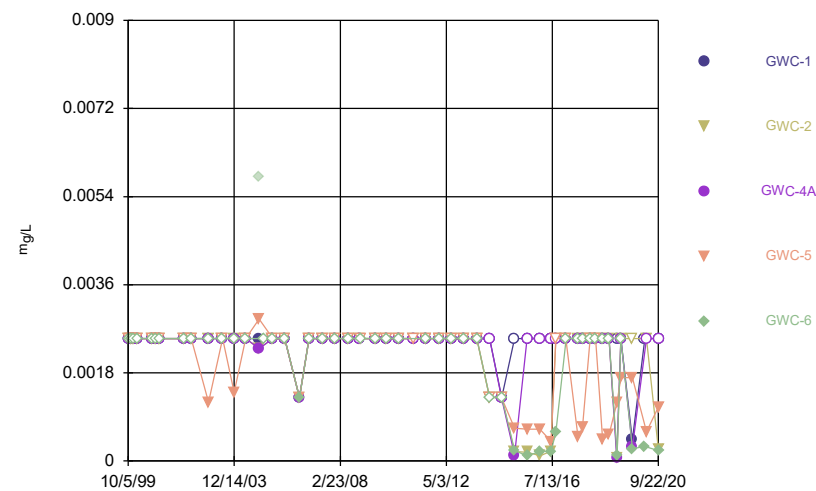
Constituent: Barium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Beryllium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Beryllium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|------------|-------------|-------------|-------------|------------|------------|-------------|
| 10/5/1999  | 0.084       |             | 0.031       | 0.013      | 0.1        |             |
| 11/12/1999 | 0.099       |             | 0.023       | 0.017      | 0.086      |             |
| 12/29/1999 | 0.18        |             | 0.033       | 0.027      | 0.12       |             |
| 2/17/2000  | 0.12        |             | 0.026       | 0.023      | 0.13       |             |
| 9/13/2000  | 0.038       |             | 0.044       | 0.022      | 0.18       |             |
| 11/10/2000 | 0.065       |             | 0.044       | 0.035      | 0.018      |             |
| 1/4/2001   | 0.037       |             | 0.043       | 0.032      | 0.23       |             |
| 12/11/2001 | 0.027       |             | 0.041       | 0.032      | 0.12       |             |
| 4/4/2002   | 0.027       |             | 0.038       | 0.03       | 0.094      |             |
| 12/6/2002  | 0.028       |             | 0.044       | 0.041      | 0.33 (o)   |             |
| 6/28/2003  | 0.054       |             | 0.045       | 0.035      | 0.11       |             |
| 12/13/2003 | 0.027       |             | 0.039       | 0.029      | 0.057      |             |
| 5/28/2004  | 0.18        |             | 0.042       | 0.033      | 0.035      |             |
| 12/10/2004 | 0.1         |             | 0.045       | 0.037      | 0.04       |             |
| 6/24/2005  | 0.045       |             | 0.042       | 0.034      | 0.037      |             |
| 12/13/2005 | 0.048       |             | 0.043       | 0.03       | 0.039      |             |
| 7/12/2006  | 0.13        |             | 0.043       | 0.03       | 0.042      |             |
| 12/1/2006  | 0.012       |             | 0.041       | 0.032      | 0.044      |             |
| 6/21/2007  | 0.2         |             | 0.043       | 0.03       | 0.058      |             |
| 12/15/2007 | 0.14        |             | 0.045       | 0.034      | 0.073      |             |
| 6/21/2008  |             |             |             | 0.037      |            |             |
| 6/22/2008  | 0.1         |             | 0.05        |            | 0.096      |             |
| 12/6/2008  |             |             | 0.14 (o)    | 0.034      | 0.094      |             |
| 12/7/2008  | 0.043       |             |             |            |            |             |
| 7/10/2009  |             |             | 0.046       |            |            |             |
| 7/11/2009  | 0.13        |             |             | 0.037      | 0.12       |             |
| 12/22/2009 |             |             |             |            | 0.089      |             |
| 12/23/2009 | 0.17        |             | 0.049       | 0.058      |            |             |
| 6/23/2010  |             |             | 0.043       | 0.046      | 0.081      |             |
| 6/24/2010  | 0.045       |             |             |            |            |             |
| 1/8/2011   |             |             | 0.047       | 0.036      | 0.097      |             |
| 1/9/2011   | 0.11        |             |             |            |            |             |
| 7/10/2011  |             |             | 0.035       | 0.031      | 0.084      |             |
| 7/11/2011  | 0.022       |             |             |            |            |             |
| 1/19/2012  |             |             | 0.05        | 0.045      |            |             |
| 1/20/2012  | 0.043       |             |             |            | 0.099      |             |
| 7/12/2012  |             |             | 0.042       | 0.039      | 0.12       |             |
| 7/13/2012  | 0.05        |             |             |            |            |             |
| 1/21/2013  | 0.11        |             | 0.048       | 0.042      | 0.095      |             |
| 7/20/2013  | 0.04        |             | 0.047       | 0.054      | 0.086      |             |
| 1/17/2014  | 0.082       |             | 0.049       | 0.057      | 0.14       |             |
| 7/12/2014  | 0.034       |             | 0.043       | 0.042      | 0.17       |             |
| 1/15/2015  |             |             | 0.05        | 0.041      |            |             |
| 1/16/2015  | 0.029       |             |             |            | 0.12       |             |
| 7/15/2015  | 0.025       |             | 0.044       | 0.04       | 0.12       |             |
| 1/16/2016  | 0.026       |             | 0.048       | 0.04       | 0.12       |             |
| 6/22/2016  | 0.0374 (D)  |             | 0.0471 (D)  | 0.0453     | 0.0839     |             |
| 8/31/2016  |             |             | 0.043       | 0.041      | 0.093      |             |
| 9/1/2016   | 0.86 (o)    |             |             |            |            |             |
| 1/19/2017  |             |             | 0.052       | 0.052      | 0.079      |             |
| 2/28/2017  | 0.027       |             |             |            |            |             |
| 7/17/2017  | 0.022       |             |             |            |            |             |

# Time Series

Page 2

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 7/18/2017 |             |             | 0.046       | 0.037      |            |             |
| 7/19/2017 |             |             |             |            | 0.085      |             |
| 9/20/2017 | 0.023       |             | 0.053       |            |            |             |
| 9/21/2017 |             |             |             | 0.042      | 0.1        |             |
| 1/8/2018  | 0.022       |             |             |            |            |             |
| 1/9/2018  |             |             | 0.05        | 0.043      | 0.13       |             |
| 3/27/2018 | 0.023       |             | 0.054       | 0.039      | 0.18       |             |
| 7/10/2018 | 0.024       |             | 0.056       | 0.043      | 0.14       |             |
| 10/8/2018 | 0.03        | 0.049       |             | 0.042      | 0.11       | 0.14        |
| 10/9/2018 |             |             | 0.061       |            |            |             |
| 1/30/2019 | 0.024       | 0.041       | 0.071       | 0.04       | 0.079      | 0.1         |
| 3/27/2019 | 0.021       |             |             |            | 0.12       |             |
| 3/28/2019 |             | 0.035       | 0.068       | 0.041      |            | 0.1         |
| 9/11/2019 | 0.022       |             |             |            |            |             |
| 9/12/2019 |             | 0.049       | 0.073       | 0.044      | 0.086      | 0.077       |
| 3/10/2020 | 0.018       | 0.047       | 0.082       | 0.058      | 0.081      |             |
| 3/11/2020 |             |             |             |            |            | 0.067       |
| 4/2/2020  |             |             | 0.088       |            |            |             |
| 9/21/2020 | 0.023       |             | 0.083       | 0.052      |            | 0.11        |
| 9/22/2020 |             | 0.049       |             |            | 0.078      |             |



# Time Series

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1  | GWC-2  | GWC-4A | GWC-5     | GWC-6    |
|------------|--------|--------|--------|-----------|----------|
| 10/5/1999  | 0.096  | 0.097  | 0.095  | 0.47      | 0.017    |
| 11/12/1999 | 0.085  | 0.057  | 0.063  | 0.27      | 0.031    |
| 12/29/1999 | 0.1    | 0.084  | 0.066  | 0.19      | 0.039    |
| 2/17/2000  | 0.072  | 0.079  | 0.023  | 0.28      | 0.031    |
| 9/13/2000  | 0.15   | 0.06   | 0.056  | 0.29      | 0.043    |
| 11/10/2000 | 0.15   | 0.062  | 0.059  | 0.24      | 0.044    |
| 1/4/2001   | 0.15   | 0.064  | 0.079  | 0.24      | 0.071    |
| 12/11/2001 | 0.14   | 0.057  | 0.049  | 0.21      | 0.042    |
| 4/4/2002   | 0.14   | 0.06   | 0.048  | 0.21      | 0.043    |
| 12/6/2002  | 0.14   | 0.072  | 0.1    | 0.28      | 0.046    |
| 6/28/2003  | 0.12   | 0.066  | 0.036  | 0.27      | 0.038    |
| 12/13/2003 | 0.12   | 0.063  | 0.031  | 0.38      | 0.035    |
| 5/28/2004  | 0.12   | 0.067  | 0.038  | 0.28      | 0.037    |
| 12/10/2004 | 0.13   | 0.075  | 0.041  | 0.25      | 0.043    |
| 6/24/2005  | 0.1    | 0.071  | 0.028  | 0.23      | 0.044    |
| 12/13/2005 | 0.096  | 0.068  | 0.025  | 0.28      | 0.045    |
| 7/12/2006  | 0.083  | 0.058  | 0.033  | 0.24      | 0.037    |
| 12/1/2006  | 0.084  | 0.063  | 0.051  | 0.019 (o) | 0.044    |
| 6/21/2007  | 0.087  | 0.071  | 0.052  | 0.19      | 0.037    |
| 12/15/2007 | 0.11   | 0.068  | 0.062  | 0.18      | 0.042    |
| 6/21/2008  | 0.093  |        | 0.065  | 0.19      |          |
| 6/22/2008  |        | 0.057  |        |           | 0.04     |
| 12/6/2008  | 0.11   | 0.058  | 0.056  |           |          |
| 12/7/2008  |        |        |        | 0.25      | 0.12 (o) |
| 7/11/2009  | 0.064  | 0.05   | 0.059  | 0.23      | 0.038    |
| 12/23/2009 | 0.052  | 0.05   | 0.067  | 0.17      | 0.04     |
| 6/23/2010  | 0.051  | 0.083  | 0.084  | 0.22      |          |
| 6/24/2010  |        |        |        |           | 0.035    |
| 1/8/2011   | 0.052  | 0.057  | 0.053  | 0.17      |          |
| 7/10/2011  | 0.036  | 0.046  | 0.043  | 0.13      |          |
| 7/11/2011  |        |        |        |           | 0.03     |
| 1/20/2012  | 0.065  | 0.055  | 0.054  | 0.15      | 0.039    |
| 7/12/2012  | 0.074  | 0.045  | 0.053  | 0.13      |          |
| 7/13/2012  |        |        |        |           | 0.04     |
| 1/21/2013  | 0.066  | 0.045  | 0.053  | 0.13      | 0.045    |
| 7/20/2013  | 0.035  | 0.079  | 0.052  | 0.18      | 0.043    |
| 1/17/2014  | 0.036  | 0.084  | 0.063  | 0.24      | 0.045    |
| 7/11/2014  |        |        | 0.068  | 0.26      |          |
| 7/12/2014  | 0.037  | 0.065  |        |           | 0.036    |
| 1/15/2015  |        | 0.067  |        |           |          |
| 1/16/2015  | 0.027  |        | 0.059  | 0.19      | 0.044    |
| 7/15/2015  | 0.031  | 0.049  | 0.045  | 0.26      | 0.038    |
| 1/16/2016  | 0.032  |        |        | 0.21      | 0.047    |
| 1/17/2016  |        | 0.09   | 0.052  |           |          |
| 6/22/2016  | 0.0323 | 0.0806 | 0.0528 |           |          |
| 6/23/2016  |        |        |        | 0.491     | 0.0393   |
| 8/31/2016  | 0.019  | 0.057  | 0.037  |           |          |
| 9/1/2016   |        |        |        | 0.47      | 0.075    |
| 1/23/2017  | 0.023  |        |        |           |          |
| 1/24/2017  |        | 0.06   |        | 0.42      |          |
| 1/25/2017  |        |        | 0.034  |           |          |
| 1/27/2017  |        |        |        |           | 0.046    |

# Time Series

Page 2

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1 | GWC-2 | GWC-4A | GWC-5 | GWC-6 |
|-----------|-------|-------|--------|-------|-------|
| 7/19/2017 | 0.013 | 0.06  |        |       |       |
| 7/20/2017 |       |       | 0.028  | 0.47  | 0.045 |
| 9/21/2017 | 0.016 | 0.063 | 0.032  | 0.48  |       |
| 9/22/2017 |       |       |        |       | 0.04  |
| 1/9/2018  | 0.016 | 0.059 | 0.033  |       |       |
| 1/10/2018 |       |       |        | 0.68  | 0.027 |
| 3/28/2018 | 0.014 |       | 0.037  | 0.6   |       |
| 3/29/2018 |       | 0.06  |        |       | 0.044 |
| 7/10/2018 |       | 0.073 | 0.065  |       |       |
| 7/11/2018 | 0.016 |       |        | 0.64  | 0.051 |
| 10/9/2018 | 0.015 | 0.057 | 0.029  | 0.56  | 0.041 |
| 1/30/2019 | 0.018 |       | 0.027  |       |       |
| 1/31/2019 |       | 0.067 |        | 0.45  | 0.053 |
| 3/28/2019 | 0.014 | 0.064 | 0.028  | 0.45  | 0.045 |
| 9/12/2019 | 0.016 | 0.06  | 0.026  | 0.59  | 0.052 |
| 3/11/2020 | 0.027 |       |        |       | 0.048 |
| 3/31/2020 |       | 0.077 | 0.036  | 0.67  |       |
| 9/22/2020 | 0.022 | 0.061 | 0.031  | 0.51  | 0.051 |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg)  | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg)  | GWA-5 (bg)  | GWA-7A (bg) |
|------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 10/5/1999  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 11/12/1999 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/29/1999 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 2/17/2000  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 9/13/2000  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 11/10/2000 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 1/4/2001   | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/11/2001 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 4/4/2002   | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/6/2002  | <0.0025      |             | <0.0025     | <0.0025     | 0.0018      |             |
| 6/28/2003  | <0.0025      |             | <0.0025     | <0.0025     | 0.0036      |             |
| 12/13/2003 | <0.0025      |             | <0.0025     | <0.0025     | 0.0019      |             |
| 5/28/2004  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/10/2004 | 0.0028       |             | 0.0024      | 0.0023      | 0.0035      |             |
| 6/24/2005  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/13/2005 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 7/12/2006  | 0.0013       |             | <0.0025     | <0.0025     | 0.0013      |             |
| 12/1/2006  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 6/21/2007  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/15/2007 | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 6/21/2008  |              |             |             | <0.0025     |             |             |
| 6/22/2008  | <0.0025      |             | <0.0025     |             | <0.0025     |             |
| 12/6/2008  |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 12/7/2008  | <0.0025      |             |             |             |             |             |
| 7/10/2009  |              |             | <0.0025     |             |             |             |
| 7/11/2009  | <0.0025      |             |             | <0.0025     | <0.0025     |             |
| 12/22/2009 |              |             |             |             | <0.0025     |             |
| 12/23/2009 | <0.0025      |             | <0.0025     | <0.0025     |             |             |
| 6/23/2010  |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 6/24/2010  | <0.0025      |             |             |             |             |             |
| 1/8/2011   |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 1/9/2011   | <0.0025      |             |             |             |             |             |
| 7/10/2011  |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 7/11/2011  | <0.0025      |             |             |             |             |             |
| 1/19/2012  |              |             | <0.0025     | <0.0025     |             |             |
| 1/20/2012  | <0.0025      |             |             |             | <0.0025     |             |
| 7/12/2012  |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 7/13/2012  | <0.0025      |             |             |             |             |             |
| 1/21/2013  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 7/20/2013  | <0.0025      |             | <0.0025     | <0.0025     | <0.0025     |             |
| 1/17/2014  | <0.0013 (J)  |             | <0.0025     | <0.0013 (J) | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J)  |             | <0.0025     | <0.0013 (J) | <0.0013 (J) |             |
| 1/15/2015  |              |             | 0.00039 (J) | 0.0002 (J)  |             |             |
| 1/16/2015  | 0.00022 (J)  |             |             |             | 0.00043 (J) |             |
| 7/15/2015  | 0.00015 (J)  |             | 0.00031 (J) | 0.00018 (J) | 0.00064 (J) |             |
| 1/16/2016  | 0.00011 (J)  |             | 0.00034 (J) | 0.00013 (J) | 0.00039 (J) |             |
| 6/22/2016  | 0.00025 (JD) |             | 0.0004 (J)  | 0.0001 (J)  | 0.0002 (J)  |             |
| 8/31/2016  |              |             | 0.00035 (J) | <0.0025     | <0.0025     |             |
| 9/1/2016   | 0.0084 (o)   |             |             |             |             |             |
| 1/19/2017  |              |             | <0.0025     | <0.0025     | <0.0025     |             |
| 2/28/2017  | <0.0025      |             |             |             |             |             |
| 7/17/2017  | <0.0025      |             |             |             |             |             |

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg)  | GWA-5 (bg)  | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| 7/18/2017 |             |             | 0.00038 (J) | <0.0025     |             |             |
| 7/19/2017 |             |             |             |             | <0.0025     |             |
| 9/20/2017 | <0.0025     |             | 0.00039 (J) |             |             |             |
| 9/21/2017 |             |             |             | <0.0025     | <0.0025     |             |
| 1/8/2018  | <0.0025     |             |             |             |             |             |
| 1/9/2018  |             |             | <0.0025     | <0.0025     | <0.0025     |             |
| 3/27/2018 | <0.0025     |             | <0.0025     | <0.0025     | <0.0025     |             |
| 7/10/2018 | <0.0025     |             | 0.00038 (J) | <0.0025     | <0.0025     |             |
| 10/8/2018 | <0.0025     | 0.0014 (J)  |             | <0.0025     | <0.0025     | <0.0025     |
| 10/9/2018 |             |             | <0.0025     |             |             |             |
| 1/30/2019 | 0.00026 (J) | 0.0019 (J)  | 0.00051 (J) | 0.00019 (J) | 0.00024 (J) | 0.00047 (J) |
| 3/27/2019 | <0.0025     |             |             |             | <0.0025     |             |
| 3/28/2019 |             | 0.0017 (J)  | 0.00046 (J) | <0.0025     |             | 0.00034 (J) |
| 9/11/2019 | 0.00019 (J) |             |             |             |             |             |
| 9/12/2019 |             | 0.00088 (J) | 0.00084 (J) | <0.0025     | 0.00036 (J) | 0.00097 (J) |
| 3/10/2020 | 0.00018 (J) | 0.00087 (J) | 0.00058 (J) | 0.00029 (J) | 0.00028 (J) |             |
| 3/11/2020 |             |             |             |             |             | 0.00078 (J) |
| 4/2/2020  |             |             | 0.00062 (J) |             |             |             |
| 9/21/2020 | 0.0002 (J)  |             | 0.00054 (J) | <0.0025     |             | <0.0025     |
| 9/22/2020 |             | 0.00042 (J) |             |             | <0.0025     |             |

# Time Series

Constituent: Beryllium (mg/L)    Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR

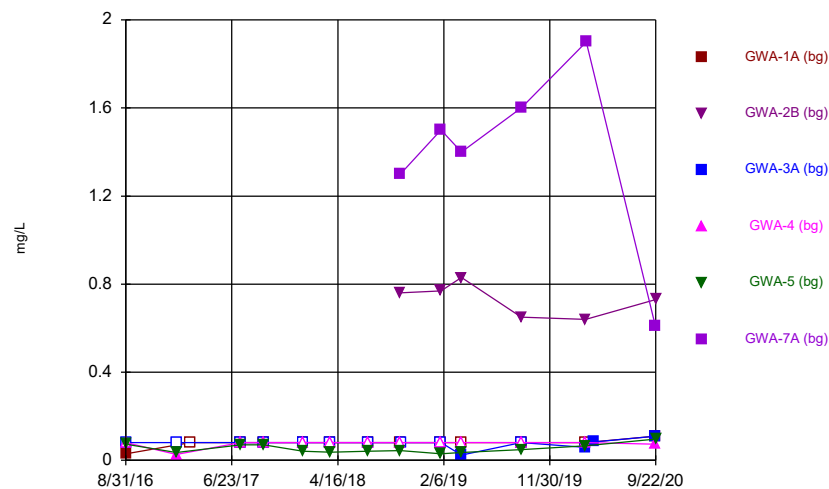
|            | GWC-1       | GWC-2       | GWC-4A      | GWC-5       | GWC-6       |
|------------|-------------|-------------|-------------|-------------|-------------|
| 10/5/1999  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 11/12/1999 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/29/1999 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 2/17/2000  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 9/13/2000  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 11/10/2000 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 1/4/2001   | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/11/2001 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 4/4/2002   | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/6/2002  | <0.0025     | <0.0025     | <0.0025     | 0.0012      | <0.0025     |
| 6/28/2003  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/13/2003 | <0.0025     | <0.0025     | <0.0025     | 0.0014      | <0.0025     |
| 5/28/2004  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/10/2004 | 0.0025      | 0.0023      | 0.0023      | 0.0029      | 0.0058 (o)  |
| 2/5/2005   |             |             |             |             | <0.0025     |
| 6/24/2005  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/13/2005 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 7/12/2006  | 0.0013      | 0.0013      | 0.0013      | 0.0013      | 0.0013      |
| 12/1/2006  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 6/21/2007  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/15/2007 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 6/21/2008  | <0.0025     |             | <0.0025     | <0.0025     |             |
| 6/22/2008  |             | <0.0025     |             |             | <0.0025     |
| 12/6/2008  | <0.0025     | <0.0025     | <0.0025     |             |             |
| 12/7/2008  |             |             |             | <0.0025     | <0.0025     |
| 7/11/2009  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 12/23/2009 | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 6/23/2010  | <0.0025     | <0.0025     | <0.0025     | <0.0025     |             |
| 6/24/2010  |             |             |             |             | <0.0025     |
| 1/8/2011   | <0.0025     | <0.0025     | <0.0025     | <0.0025     |             |
| 7/10/2011  | <0.0025     | <0.0025     | <0.0025     | <0.0025     |             |
| 7/11/2011  |             |             |             |             | <0.0025     |
| 1/20/2012  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 7/12/2012  | <0.0025     | <0.0025     | <0.0025     | <0.0025     |             |
| 7/13/2012  |             |             |             |             | <0.0025     |
| 1/21/2013  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 7/20/2013  | <0.0025     | <0.0025     | <0.0025     | <0.0025     | <0.0025     |
| 1/17/2014  | <0.0025     | <0.0013 (J) | <0.0025     | <0.0013 (J) | <0.0013 (J) |
| 7/11/2014  |             |             | <0.0013 (J) | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J) | <0.0013 (J) |             |             | <0.0013 (J) |
| 1/15/2015  |             | 0.00019 (J) |             |             |             |
| 1/16/2015  | <0.0025     |             | 0.00012 (J) | 0.00067 (J) | 0.00021 (J) |
| 7/15/2015  | <0.0025     | 0.00018 (J) | <0.0025     | 0.00065 (J) | 0.00011 (J) |
| 1/16/2016  | <0.0025     |             |             | 0.00065 (J) | 0.00019 (J) |
| 1/17/2016  |             | 0.00011 (J) | <0.0025     |             |             |
| 6/22/2016  | <0.0025     | 0.0002 (J)  | <0.0025     |             |             |
| 6/23/2016  |             |             |             | 0.0004 (J)  | 0.0002 (J)  |
| 8/31/2016  | <0.0025     | <0.0025     | <0.0025     |             |             |
| 9/1/2016   |             |             |             | <0.0025     | 0.0006 (J)  |
| 1/23/2017  | <0.0025     |             |             |             |             |
| 1/24/2017  |             | <0.0025     |             | <0.0025     |             |
| 1/25/2017  |             |             | <0.0025     |             |             |

# Time Series

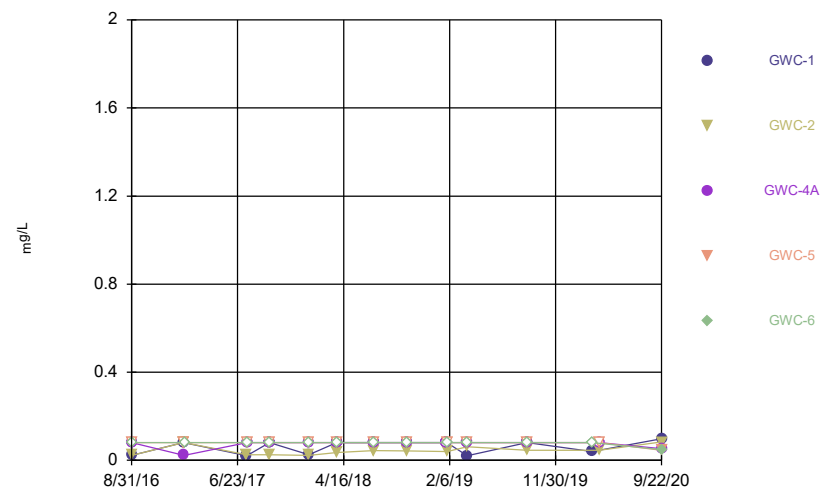
Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1       | GWC-2       | GWC-4A      | GWC-5       | GWC-6       |
|-----------|-------------|-------------|-------------|-------------|-------------|
| 1/27/2017 |             |             |             |             | <0.0025     |
| 7/19/2017 | <0.0025     | <0.0025     |             |             |             |
| 7/20/2017 |             |             | <0.0025     | 0.00049 (J) | <0.0025     |
| 9/21/2017 | <0.0025     | <0.0025     | <0.0025     | 0.00068 (J) |             |
| 9/22/2017 |             |             |             |             | <0.0025     |
| 1/9/2018  | <0.0025     | <0.0025     | <0.0025     |             |             |
| 1/10/2018 |             |             |             | <0.0025     | <0.0025     |
| 3/28/2018 | <0.0025     |             | <0.0025     | <0.0025     |             |
| 3/29/2018 |             | <0.0025     |             |             | <0.0025     |
| 7/10/2018 |             | <0.0025     | <0.0025     |             |             |
| 7/11/2018 | <0.0025     |             |             | 0.00043 (J) | <0.0025     |
| 10/9/2018 | <0.0025     | <0.0025     | <0.0025     | 0.00054 (J) | <0.0025     |
| 1/30/2019 | <0.0025     |             | 7E-05 (J)   |             |             |
| 1/31/2019 |             | 6.5E-05 (J) |             | 0.0012 (J)  | 0.00012 (J) |
| 3/28/2019 | <0.0025     | <0.0025     | <0.0025     | 0.0017 (J)  | <0.0025     |
| 9/12/2019 | 0.00043 (J) | <0.0025     | 0.00028 (J) | 0.0017      | 0.00025 (J) |
| 3/11/2020 | <0.0025     |             |             |             | 0.0003 (J)  |
| 3/31/2020 |             | <0.0025     | <0.0025     | 0.0006 (J)  |             |
| 9/22/2020 | <0.0025     | 0.00025 (J) | <0.0025     | 0.0011 (J)  | 0.00021 (J) |

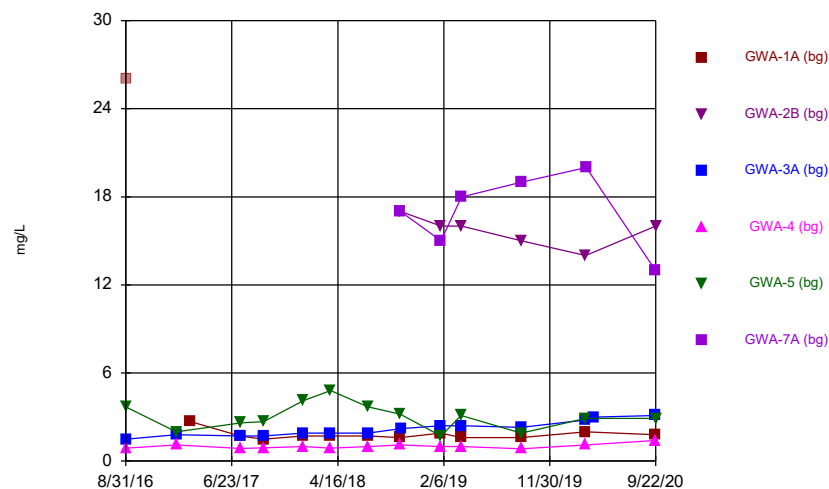
Time Series



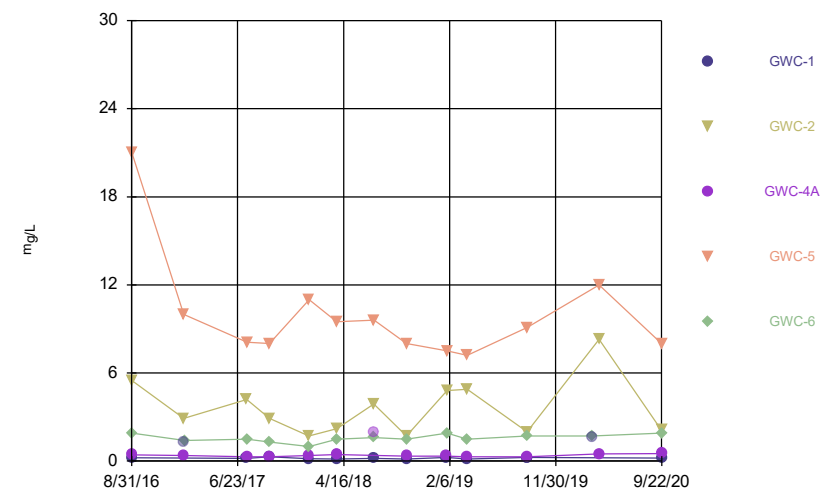
Time Series



Time Series



Time Series



# Time Series

Constituent: Boron (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | <0.08       | <0.08      | 0.073      |             |
| 9/1/2016  | 0.029 (J)   |             |             |            |            |             |
| 1/19/2017 |             |             | <0.08       | 0.027 (J)  | 0.036 (J)  |             |
| 2/28/2017 | <0.08       |             |             |            |            |             |
| 7/17/2017 | <0.08       |             |             |            |            |             |
| 7/18/2017 |             |             | <0.08       | <0.08      |            |             |
| 7/19/2017 |             |             |             |            | 0.07       |             |
| 9/20/2017 | <0.08       |             | <0.08       |            |            |             |
| 9/21/2017 |             |             |             | <0.08      | 0.07       |             |
| 1/8/2018  | <0.08       |             |             |            |            |             |
| 1/9/2018  |             |             | <0.08       | <0.08      | 0.042 (J)  |             |
| 3/27/2018 | <0.08       |             | <0.08       | <0.08      | 0.037 (J)  |             |
| 7/10/2018 | <0.08       |             | <0.08       | <0.08      | 0.042 (J)  |             |
| 10/8/2018 | <0.08       | 0.76        |             | <0.08      | 0.044 (J)  | 1.3         |
| 10/9/2018 |             |             | <0.08       |            |            |             |
| 1/30/2019 | <0.08       | 0.77        | <0.08       | <0.08      | 0.03 (J)   | 1.5         |
| 3/27/2019 | <0.08       |             |             |            | 0.036 (J)  |             |
| 3/28/2019 |             | 0.83        | 0.024 (J)   | <0.08      |            | 1.4         |
| 9/11/2019 | <0.08       |             |             |            |            |             |
| 9/12/2019 |             | 0.65        | <0.08       | <0.08      | 0.048 (J)  | 1.6         |
| 3/10/2020 | <0.08       | 0.64        | 0.059 (J)   | <0.08      | 0.066 (J)  |             |
| 3/11/2020 |             |             |             |            |            | 1.9         |
| 4/2/2020  |             |             | 0.084       |            |            |             |
| 9/21/2020 | 0.11        |             | 0.11        | 0.073 (J)  |            | 0.61        |
| 9/22/2020 |             | 0.73        |             |            | 0.097      |             |



# Time Series

Constituent: Boron (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1     | GWC-2     | GWC-4A    | GWC-5     | GWC-6     |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 8/31/2016 | 0.023 (J) | 0.023 (J) | <0.08     |           |           |
| 9/1/2016  |           |           |           | <0.08     | <0.08     |
| 1/23/2017 | <0.08     |           |           |           |           |
| 1/24/2017 |           | <0.08     |           | <0.08     |           |
| 1/25/2017 |           |           | 0.023 (J) |           |           |
| 1/27/2017 |           |           |           |           | <0.08     |
| 7/19/2017 | 0.021 (J) | 0.026 (J) |           |           |           |
| 7/20/2017 |           |           | <0.08     | <0.08     | <0.08     |
| 9/21/2017 | <0.08     | 0.025 (J) | <0.08     | <0.08     |           |
| 9/22/2017 |           |           |           |           | <0.08     |
| 1/9/2018  | 0.025 (J) | 0.023 (J) | <0.08     |           |           |
| 1/10/2018 |           |           |           | <0.08     | <0.08     |
| 3/28/2018 | <0.08     |           | <0.08     | <0.08     |           |
| 3/29/2018 |           | 0.035 (J) |           |           | <0.08     |
| 7/10/2018 |           | 0.044 (J) | <0.08     |           |           |
| 7/11/2018 | <0.08     |           |           | <0.08     | <0.08     |
| 10/9/2018 | <0.08     | 0.043 (J) | <0.08     | <0.08     | <0.08     |
| 1/30/2019 | <0.08     |           | <0.08     |           |           |
| 1/31/2019 |           | 0.04 (J)  |           | <0.08     | <0.08     |
| 3/28/2019 | 0.021 (J) | 0.062     | <0.08     | <0.08     | <0.08     |
| 9/12/2019 | <0.08     | 0.045 (J) | <0.08     | <0.08     | <0.08     |
| 3/11/2020 | 0.04 (J)  |           |           |           | <0.08     |
| 3/31/2020 |           | 0.046 (J) | <0.08     | <0.08     |           |
| 9/22/2020 | 0.098     | 0.083     | 0.053 (J) | 0.045 (J) | 0.048 (J) |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

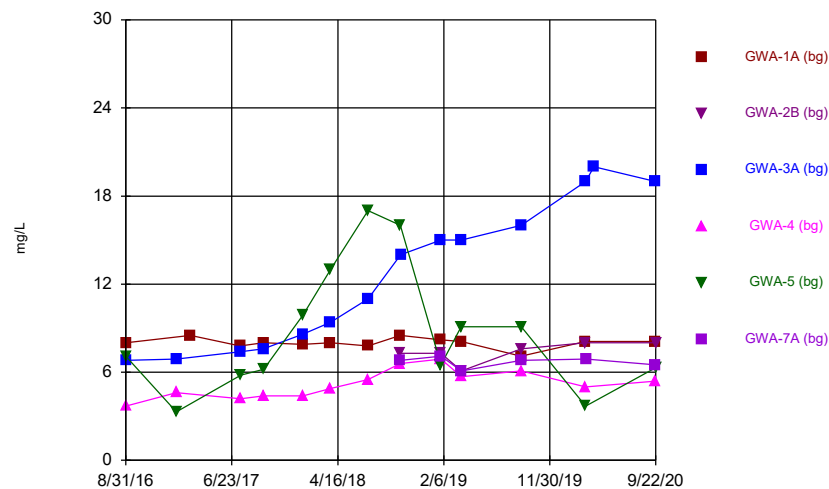
|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | 1.5         | 0.88       | 3.7        |             |
| 9/1/2016  | 26 (o)      |             |             |            |            |             |
| 1/19/2017 |             |             | 1.8         | 1.1        | 2          |             |
| 2/28/2017 | 2.7         |             |             |            |            |             |
| 7/17/2017 | 1.7         |             |             |            |            |             |
| 7/18/2017 |             |             | 1.7         | 0.86       |            |             |
| 7/19/2017 |             |             |             |            | 2.6        |             |
| 9/20/2017 | 1.5         |             | 1.7         |            |            |             |
| 9/21/2017 |             |             |             | 0.9        | 2.7        |             |
| 1/8/2018  | 1.7         |             |             |            |            |             |
| 1/9/2018  |             |             | 1.9         | 1          | 4.1        |             |
| 3/27/2018 | 1.7         |             | 1.9         | 0.89       | 4.8        |             |
| 7/10/2018 | 1.7         |             | 1.9         | 0.99       | 3.7        |             |
| 10/8/2018 | 1.6         | 17          |             | 1.1        | 3.2        | 17          |
| 10/9/2018 |             |             | 2.2         |            |            |             |
| 1/30/2019 | 1.9         | 16          | 2.4         | 1          | 1.7        | 15          |
| 3/27/2019 | 1.6         |             |             |            | 3.1        |             |
| 3/28/2019 |             | 16          | 2.4         | 0.98       |            | 18          |
| 9/11/2019 | 1.6         |             |             |            |            |             |
| 9/12/2019 |             | 15          | 2.3         | 0.84       | 1.9        | 19          |
| 3/10/2020 | 2           | 14          | 2.8         | 1.1        | 2.9        |             |
| 3/11/2020 |             |             |             |            |            | 20          |
| 4/2/2020  |             |             | 3           |            |            |             |
| 9/21/2020 | 1.8         |             | 3.1         | 1.4        |            | 13          |
| 9/22/2020 |             | 16          |             |            | 2.9        |             |

# Time Series

Constituent: Calcium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

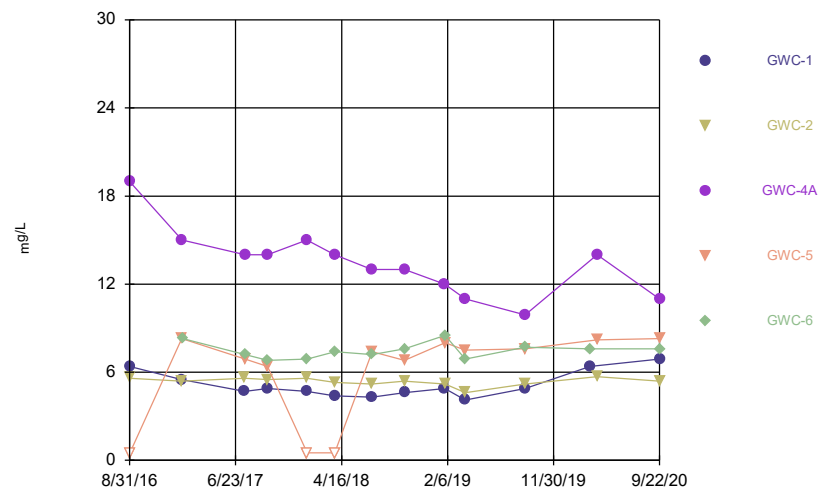
|           | GWC-1    | GWC-2 | GWC-4A   | GWC-5 | GWC-6 |
|-----------|----------|-------|----------|-------|-------|
| 8/31/2016 | 0.22 (J) | 5.5   | 0.42     |       |       |
| 9/1/2016  |          |       |          | 21    | 1.9   |
| 1/23/2017 | 1.3 (o)  |       |          |       |       |
| 1/24/2017 |          | 2.9   |          | 10    |       |
| 1/25/2017 |          |       | 0.37     |       |       |
| 1/27/2017 |          |       |          |       | 1.4   |
| 7/19/2017 | 0.19 (J) | 4.2   |          |       |       |
| 7/20/2017 |          |       | 0.29     | 8.1   | 1.5   |
| 9/21/2017 | 0.3      | 2.9   | 0.3      | 8     |       |
| 9/22/2017 |          |       |          |       | 1.3   |
| 1/9/2018  | 0.16 (J) | 1.7   | 0.38     |       |       |
| 1/10/2018 |          |       |          | 11    | 1     |
| 3/28/2018 | 0.14 (J) |       | 0.44     | 9.5   |       |
| 3/29/2018 |          | 2.2   |          |       | 1.5   |
| 7/10/2018 |          | 3.9   | 2 (o)    |       |       |
| 7/11/2018 | 0.18 (J) |       |          | 9.6   | 1.6   |
| 10/9/2018 | 0.13 (J) | 1.7   | 0.34     | 8     | 1.5   |
| 1/30/2019 | 0.24 (J) |       | 0.34     |       |       |
| 1/31/2019 |          | 4.8   |          | 7.5   | 1.9   |
| 3/28/2019 | 0.15 (J) | 4.9   | 0.3      | 7.2   | 1.5   |
| 9/12/2019 | <0.5 (D) | 2     | 0.3 (J)  | 9.1   | 1.7   |
| 3/11/2020 | 1.6 (o)  |       |          |       | 1.7   |
| 3/31/2020 |          | 8.3   | 0.48 (J) | 12    |       |
| 9/22/2020 | 0.21 (J) | 2.1   | 0.51     | 8     | 1.9   |

## Time Series



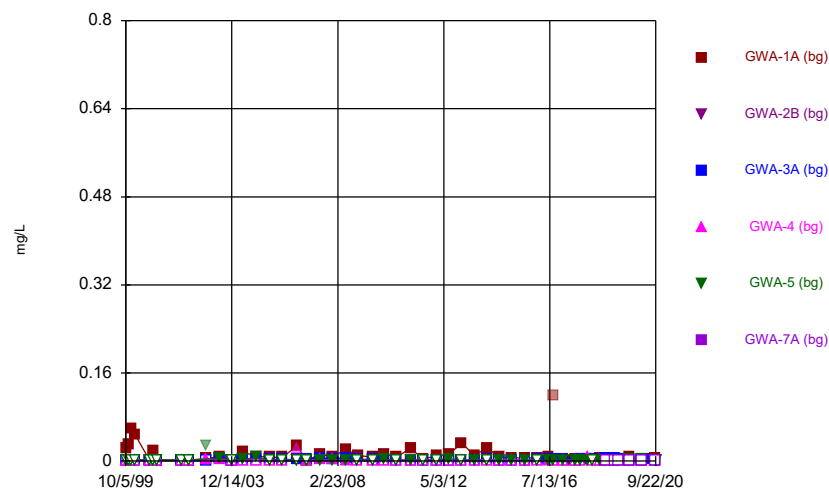
Constituent: Chloride Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

## Time Series



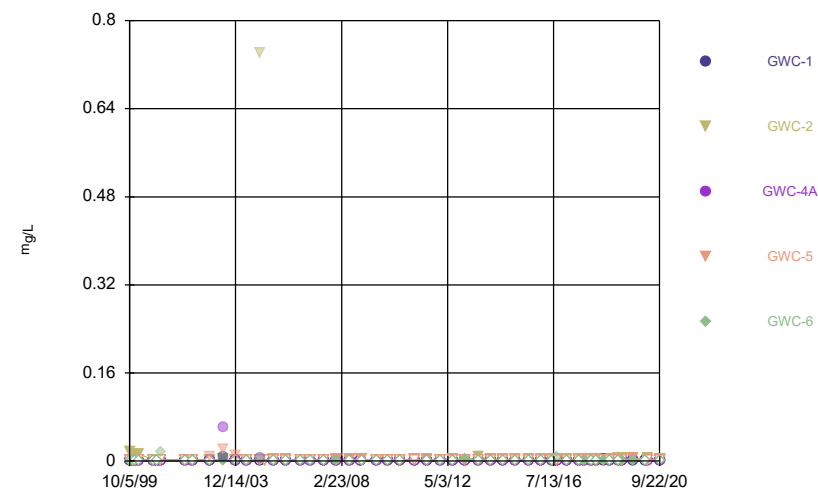
Constituent: Chloride Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

## Time Series



Constituent: Chromium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

## Time Series



Constituent: Chromium Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Chloride (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | 6.8         | 3.7        | 7.1        |             |
| 9/1/2016  | 8           |             |             |            |            |             |
| 1/19/2017 |             |             | 6.9         | 4.6        | 3.3        |             |
| 2/28/2017 | 8.5         |             |             |            |            |             |
| 7/17/2017 | 7.8         |             |             |            |            |             |
| 7/18/2017 |             |             | 7.4         | 4.2        |            |             |
| 7/19/2017 |             |             |             |            | 5.8        |             |
| 9/20/2017 | 8           |             | 7.6         |            |            |             |
| 9/21/2017 |             |             |             | 4.4        | 6.2        |             |
| 1/8/2018  | 7.9         |             |             |            |            |             |
| 1/9/2018  |             |             | 8.6         | 4.4        | 9.9        |             |
| 3/27/2018 | 8           |             | 9.4         | 4.9        | 13         |             |
| 7/10/2018 | 7.8         |             | 11          | 5.5        | 17         |             |
| 10/8/2018 | 8.5         | 7.3         |             | 6.6        | 16         | 6.8         |
| 10/9/2018 |             |             | 14          |            |            |             |
| 1/30/2019 | 8.2         | 7.3         | 15          | 6.9        | 6.5        | 7.1         |
| 3/27/2019 | 8.1         |             |             |            | 9.1        |             |
| 3/28/2019 |             | 6.1         | 15          | 5.7        |            | 6.1         |
| 9/11/2019 | 7.1         |             |             |            |            |             |
| 9/12/2019 |             | 7.6         | 16          | 6.1        | 9.1        | 6.8         |
| 3/10/2020 | 8.1         | 8           | 19          | 5          | 3.7        |             |
| 3/11/2020 |             |             |             |            |            | 6.9         |
| 4/2/2020  |             |             | 20          |            |            |             |
| 9/21/2020 | 8.1         |             | 19          | 5.4        |            | 6.5         |
| 9/22/2020 |             | 8           |             |            | 6.3        |             |

# Time Series

Constituent: Chloride (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1 | GWC-2 | GWC-4A | GWC-5 | GWC-6 |
|-----------|-------|-------|--------|-------|-------|
| 8/31/2016 | 6.4   | 5.6   | 19     |       |       |
| 9/1/2016  |       |       |        | <1    |       |
| 1/23/2017 | 5.5   |       |        |       |       |
| 1/24/2017 |       | 5.4   |        | 8.3   |       |
| 1/25/2017 |       |       | 15     |       |       |
| 1/27/2017 |       |       |        |       | 8.3   |
| 7/19/2017 | 4.7   | 5.6   |        |       |       |
| 7/20/2017 |       |       | 14     | 6.9   | 7.2   |
| 9/21/2017 | 4.9   | 5.5   | 14     | 6.4   |       |
| 9/22/2017 |       |       |        |       | 6.8   |
| 1/9/2018  | 4.7   | 5.6   | 15     |       |       |
| 1/10/2018 |       |       |        | <1    | 6.9   |
| 3/28/2018 | 4.4   |       | 14     | <1    |       |
| 3/29/2018 |       | 5.3   |        |       | 7.4   |
| 7/10/2018 |       | 5.2   | 13     |       |       |
| 7/11/2018 | 4.3   |       |        | 7.4   | 7.2   |
| 10/9/2018 | 4.6   | 5.4   | 13     | 6.8   | 7.6   |
| 1/30/2019 | 4.9   |       | 12     |       |       |
| 1/31/2019 |       | 5.2   |        | 8     | 8.5   |
| 3/28/2019 | 4.1   | 4.6   | 11     | 7.5   | 6.9   |
| 9/12/2019 | 4.9   | 5.2   | 9.9    | 7.6   | 7.7   |
| 3/11/2020 | 6.4   |       |        |       | 7.6   |
| 3/31/2020 |       | 5.7   | 14     | 8.2   |       |
| 9/22/2020 | 6.9   | 5.4   | 11     | 8.3   | 7.6   |

# Time Series

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg)  | GWA-4 (bg) | GWA-5 (bg)  | GWA-7A (bg) |
|------------|-------------|-------------|--------------|------------|-------------|-------------|
| 10/5/1999  | 0.023       |             | <0.002       | <0.002     | <0.002      |             |
| 11/12/1999 | 0.03        |             | <0.002       | <0.002     | <0.002      |             |
| 12/29/1999 | 0.059       |             | <0.002       | <0.002     | <0.002      |             |
| 2/17/2000  | 0.048       |             | <0.002       | <0.002     | <0.002      |             |
| 9/13/2000  | <0.002      |             | <0.002       | <0.002     | <0.002      |             |
| 11/10/2000 | 0.018       |             | <0.002       | <0.002     | <0.002      |             |
| 1/4/2001   | <0.002      |             | <0.002       | <0.002     | <0.002      |             |
| 12/11/2001 | <0.002      |             | <0.002       | <0.002     | <0.002      |             |
| 4/4/2002   | <0.002      |             | <0.002       | <0.002     | <0.002      |             |
| 12/6/2002  | 0.0046      |             | <0.002       | 0.0037     | 0.027 (o)   |             |
| 6/28/2003  | 0.0082      |             | 0.0053       | 0.0039     | 0.0051      |             |
| 12/13/2003 | <0.002      |             | <0.002       | <0.002     | <0.002      |             |
| 5/28/2004  | 0.016       |             | 0.0027       | <0.002     | 0.0031      |             |
| 12/10/2004 | 0.0087      |             | 0.004        | <0.002     | 0.0067      |             |
| 6/24/2005  | 0.0069      |             | 0.0031       | <0.002     | <0.002      |             |
| 12/13/2005 | 0.0075      |             | 0.0031       | <0.002     | <0.002      |             |
| 7/12/2006  | 0.027       |             | 0.0025       | 0.023 (o)  | <0.002      |             |
| 12/1/2006  | <0.002      |             | 0.0037       | 0.0017     | <0.002      |             |
| 6/21/2007  | 0.012       |             | 0.0053       | 0.0027     | 0.0021      |             |
| 12/15/2007 | 0.0085      |             | 0.0044       | 0.0026     | 0.0022      |             |
| 6/21/2008  |             |             |              | 0.0021     |             |             |
| 6/22/2008  | 0.021       |             | 0.0059       |            | 0.0019      |             |
| 12/6/2008  |             |             | 0.0031       | <0.002     | <0.002      |             |
| 12/7/2008  | 0.01        |             |              |            |             |             |
| 7/10/2009  |             |             | 0.0029       |            |             |             |
| 7/11/2009  | 0.0073      |             |              | <0.002     | <0.002      |             |
| 12/22/2009 |             |             |              |            | 0.0032      |             |
| 12/23/2009 | 0.013       |             | 0.0025       | <0.002     |             |             |
| 6/23/2010  |             |             | 0.0013       | <0.002     | <0.002      |             |
| 6/24/2010  | 0.0076      |             |              |            |             |             |
| 1/8/2011   |             |             | 0.0017       | <0.002     | 0.0019      |             |
| 1/9/2011   | 0.023       |             |              |            |             |             |
| 7/10/2011  |             |             | <0.002       | <0.002     | <0.002      |             |
| 7/11/2011  | 0.0042      |             |              |            |             |             |
| 1/19/2012  |             |             | <0.002       | <0.002     |             |             |
| 1/20/2012  | 0.009       |             |              |            | <0.002      |             |
| 7/12/2012  |             |             | <0.002       | <0.002     | 0.0044      |             |
| 7/13/2012  | 0.013       |             |              |            |             |             |
| 1/21/2013  | 0.032       |             | 0.0014       | <0.002     | <0.002      |             |
| 7/20/2013  | 0.01        |             | 0.0021       | <0.002     | 0.0017      |             |
| 1/17/2014  | 0.024       |             | 0.0023       | <0.002     | <0.0013 (J) |             |
| 7/12/2014  | 0.0069      |             | <0.0013 (J)  | <0.002     | 0.0014      |             |
| 1/15/2015  |             |             | <0.002       | <0.002     |             |             |
| 1/16/2015  | 0.0064      |             |              |            | 0.0011 (J)  |             |
| 7/15/2015  | 0.0051      |             | <0.002       | <0.002     | 0.0016      |             |
| 1/16/2016  | 0.0066      |             | 0.0025       | <0.002     | <0.002      |             |
| 6/22/2016  | 0.00815 (D) |             | 0.00255 (JD) | 0.0005 (J) | 0.002 (J)   |             |
| 8/31/2016  |             |             | 0.0042       | <0.002     | 0.002 (J)   |             |
| 9/1/2016   | 0.12 (o)    |             |              |            |             |             |
| 1/19/2017  |             |             | 0.0039       | <0.002     | 0.002 (J)   |             |
| 2/28/2017  | 0.0012 (J)  |             |              |            |             |             |
| 7/17/2017  | 0.003       |             |              |            |             |             |

# Time Series

Page 2

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg)  | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|-------------|------------|-------------|
| 7/18/2017 |             |             | 0.0018 (J)  | <0.002      |            |             |
| 7/19/2017 |             |             |             |             | 0.0017 (J) |             |
| 9/20/2017 | 0.0025      |             | 0.0026      |             |            |             |
| 9/21/2017 |             |             |             | <0.002      | 0.0021 (J) |             |
| 1/8/2018  | 0.0038      |             |             |             |            |             |
| 1/9/2018  |             |             | 0.0038      | 0.0087      | 0.0019 (J) |             |
| 3/27/2018 | 0.0044      |             | 0.0037      | <0.002      | <0.002     |             |
| 7/10/2018 | 0.0045      |             | 0.0022 (J)  | <0.002      | 0.0012 (J) |             |
| 10/8/2018 | 0.0054      | <0.002      |             | <0.002      | 0.0015 (J) | <0.002      |
| 10/9/2018 |             |             | 0.0047      |             |            |             |
| 1/30/2019 | 0.0061      | 0.003       | 0.005       | 0.00088 (J) | 0.0014 (J) | <0.002      |
| 3/27/2019 | 0.0044      |             |             |             | <0.002     |             |
| 3/28/2019 |             | 0.0017 (J)  | 0.0037      | <0.002      |            | <0.002      |
| 9/11/2019 | 0.0076      |             |             |             |            |             |
| 9/12/2019 |             | <0.002      | <0.002      | <0.002      | 0.0032     | <0.002      |
| 3/10/2020 | 0.0041      | <0.002      | <0.002      | <0.002      | 0.0031     |             |
| 3/11/2020 |             |             |             |             |            | <0.002      |
| 4/2/2020  |             |             | 0.0031      |             |            |             |
| 9/21/2020 | 0.0049      |             | <0.002      | <0.002      |            | <0.002      |
| 9/22/2020 |             | <0.002      |             |             | 0.0017 (J) |             |



# Time Series

Constituent: Chromium (mg/L)    Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR

|            | GWC-1      | GWC-2      | GWC-4A     | GWC-5     | GWC-6      |
|------------|------------|------------|------------|-----------|------------|
| 10/5/1999  | <0.002     | 0.017      | <0.002     | <0.002    | <0.002     |
| 11/12/1999 | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 12/29/1999 | <0.002     | 0.011      | <0.002     | <0.002    | <0.002     |
| 2/17/2000  | <0.002     | 0.013      | <0.002     | <0.002    | <0.002     |
| 9/13/2000  | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 11/10/2000 | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 1/4/2001   | <0.002     | <0.002     | <0.002     | <0.002    | 0.016 (o)  |
| 12/11/2001 | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 4/4/2002   | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 12/6/2002  | <0.002     | <0.002     | <0.002     | 0.008 (o) | <0.002     |
| 6/28/2003  | 0.007 (o)  | 0.0027     | 0.061 (o)  | 0.021 (o) | 0.0021     |
| 12/13/2003 | <0.002     | <0.002     | <0.002     | 0.011 (o) | <0.002     |
| 5/28/2004  | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 12/10/2004 | <0.002     | 0.74 (o)   | 0.0059 (o) | <0.002    | 0.0046 (o) |
| 2/5/2005   |            | <0.002     |            |           |            |
| 6/24/2005  | <0.002     | 0.0023     | <0.002     | <0.002    | <0.002     |
| 12/13/2005 | <0.002     | 0.0031     | <0.002     | <0.002    | <0.002     |
| 7/12/2006  | <0.002     | 0.0016     | <0.002     | <0.002    | <0.002     |
| 12/1/2006  | <0.002     | 0.0022     | <0.002     | <0.002    | <0.002     |
| 6/21/2007  | <0.002     | 0.002      | <0.002     | <0.002    | <0.002     |
| 12/15/2007 | <0.002     | 0.0029     | <0.002     | 0.002     | 0.0016     |
| 6/21/2008  | <0.002     |            | <0.002     | 0.0017    |            |
| 6/22/2008  |            | 0.0023     |            |           | <0.002     |
| 12/6/2008  | <0.002     | 0.0023     | <0.002     |           |            |
| 12/7/2008  |            |            |            | 0.0025    | <0.002     |
| 7/11/2009  | <0.002     | 0.0015     | <0.002     | <0.002    | <0.002     |
| 12/23/2009 | <0.002     | 0.0014     | <0.002     | <0.002    | <0.002     |
| 6/23/2010  | <0.002     | 0.0018     | <0.002     | <0.002    |            |
| 6/24/2010  |            |            |            |           | <0.002     |
| 1/8/2011   | <0.002     | 0.0033     | <0.002     | <0.002    |            |
| 7/10/2011  | <0.002     | 0.0028     | <0.002     | 0.0013    |            |
| 7/11/2011  |            |            |            |           | <0.002     |
| 1/20/2012  | <0.002     | <0.002     | <0.002     | <0.002    | <0.002     |
| 7/12/2012  | <0.002     | 0.0025     | <0.002     | <0.002    |            |
| 7/13/2012  |            |            |            |           | <0.002     |
| 1/21/2013  | <0.002     | 0.0022     | <0.002     | <0.002    | 0.0025     |
| 7/20/2013  | <0.002     | 0.0075     | <0.002     | <0.002    | <0.002     |
| 1/17/2014  | <0.002     | 0.0039     | <0.002     | <0.002    | <0.002     |
| 7/11/2014  |            |            | <0.002     | <0.002    |            |
| 7/12/2014  | <0.002     | 0.0031     |            |           | <0.002     |
| 1/15/2015  |            | 0.0026     |            |           |            |
| 1/16/2015  | <0.002     |            | <0.002     | <0.002    | <0.002     |
| 7/15/2015  | <0.002     | 0.0032     | <0.002     | <0.002    | <0.002     |
| 1/16/2016  | <0.002     |            |            | <0.002    | <0.002     |
| 1/17/2016  |            | 0.0029     | <0.002     |           |            |
| 6/22/2016  | 0.0008 (J) | 0.0036 (J) | <0.002     |           |            |
| 6/23/2016  |            |            |            | <0.002    | <0.002     |
| 8/31/2016  | <0.002     | 0.0027     | <0.002     |           |            |
| 9/1/2016   |            |            |            | <0.002    | 0.0069 (o) |
| 1/23/2017  | <0.002     |            |            |           |            |
| 1/24/2017  |            | 0.0034     |            | <0.002    |            |
| 1/25/2017  |            |            | <0.002 (D) |           |            |

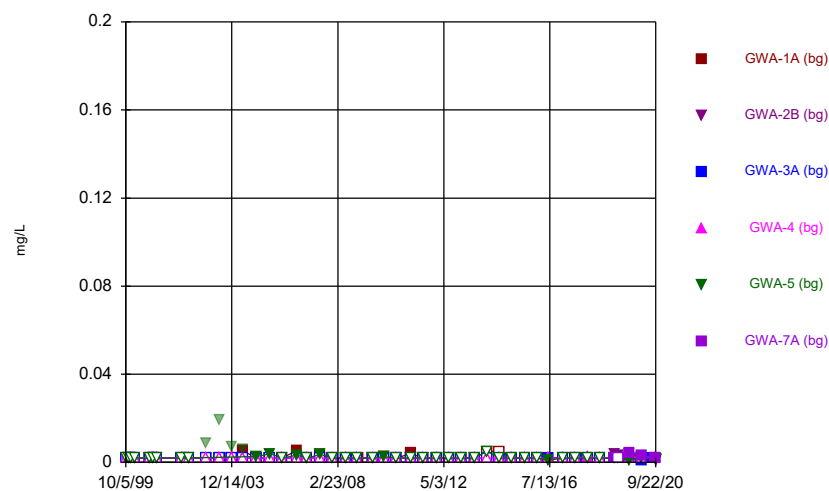
# Time Series

Page 2

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

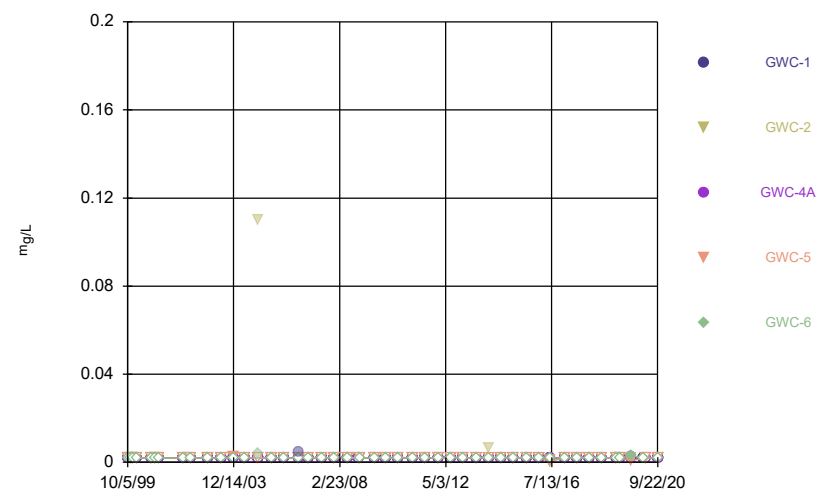
|           | GWC-1      | GWC-2  | GWC-4A     | GWC-5  | GWC-6      |
|-----------|------------|--------|------------|--------|------------|
| 1/27/2017 |            |        |            |        | <0.002 (D) |
| 7/19/2017 | <0.002     | 0.0028 |            |        |            |
| 7/20/2017 |            |        | <0.002     | <0.002 | <0.002     |
| 9/21/2017 | <0.002     | 0.0035 | <0.002     | <0.002 |            |
| 9/22/2017 |            |        |            |        | 0.0015 (J) |
| 1/9/2018  | <0.002     | 0.003  | <0.002     |        |            |
| 1/10/2018 |            |        |            | <0.002 | <0.002     |
| 3/28/2018 | <0.002     |        | 0.0019 (J) | <0.002 |            |
| 3/29/2018 |            | 0.0032 |            |        | <0.002     |
| 7/10/2018 |            | 0.0033 | 0.0029     |        |            |
| 7/11/2018 | <0.002     |        |            | <0.002 | 0.0011 (J) |
| 10/9/2018 | <0.002     | 0.0039 | <0.002     | <0.002 | <0.002     |
| 1/30/2019 | 0.0024 (J) |        | <0.002     |        |            |
| 1/31/2019 |            | 0.0061 |            | <0.002 | <0.002     |
| 3/28/2019 | <0.002     | 0.0049 | <0.002     | <0.002 | 0.0019 (J) |
| 9/12/2019 | <0.002     | 0.0048 | 0.0028     | 0.0051 | 0.0022     |
| 3/11/2020 | <0.002     |        |            |        | <0.002     |
| 3/31/2020 |            | 0.005  | <0.002     | <0.002 |            |
| 9/22/2020 | 0.0017 (J) | 0.0036 | <0.002     | <0.002 | <0.002     |

Time Series



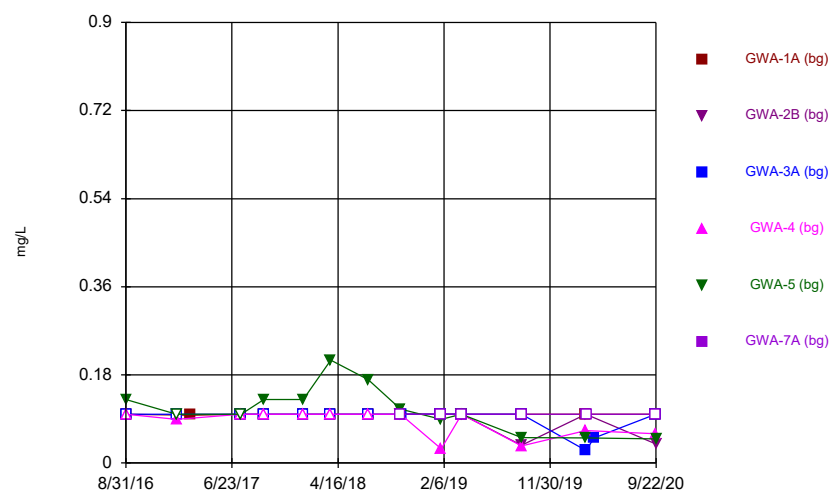
Constituent: Copper Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



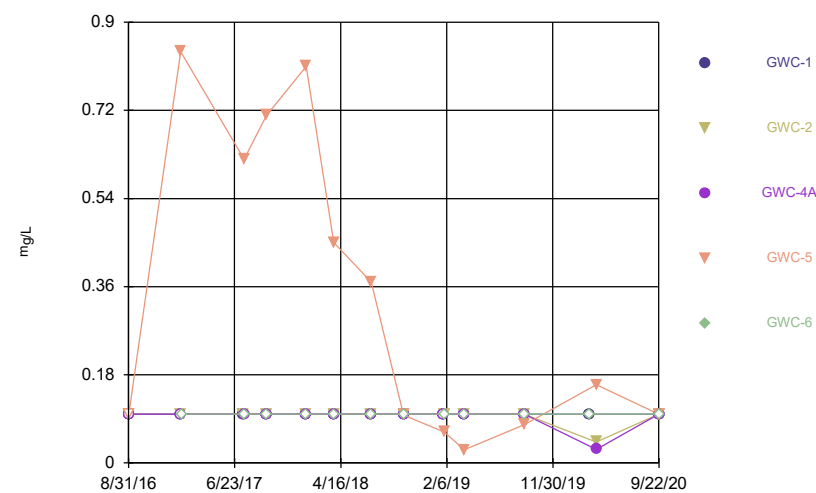
Constituent: Copper Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Fluoride Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Fluoride Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg)  | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|------------|-------------|-------------|--------------|------------|------------|-------------|
| 10/5/1999  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 11/12/1999 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 12/29/1999 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 2/17/2000  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 9/13/2000  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 11/10/2000 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 1/4/2001   | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 12/11/2001 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 4/4/2002   | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 12/6/2002  | <0.002      |             | <0.002       | <0.002     | 0.0089 (o) |             |
| 6/28/2003  | <0.002      |             | <0.002       | <0.002     | 0.019 (o)  |             |
| 12/13/2003 | <0.002      |             | <0.002       | <0.002     | 0.0067 (o) |             |
| 5/28/2004  | 0.0052      |             | <0.002       | <0.002     | 0.0057 (o) |             |
| 12/10/2004 | <0.002      |             | <0.002       | <0.002     | 0.0027     |             |
| 6/24/2005  | <0.002      |             | <0.002       | <0.002     | 0.0038     |             |
| 12/13/2005 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 7/12/2006  | 0.0055      |             | <0.002       | <0.002     | 0.0033     |             |
| 12/1/2006  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 6/21/2007  | 0.0032      |             | <0.002       | <0.002     | 0.0035     |             |
| 12/15/2007 | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 6/21/2008  |             |             |              | <0.002     |            |             |
| 6/22/2008  | <0.002      |             | <0.002       |            | <0.002     |             |
| 12/6/2008  |             |             | <0.002       | <0.002     | <0.002     |             |
| 12/7/2008  | <0.002      |             |              |            |            |             |
| 7/10/2009  |             |             | <0.002       |            |            |             |
| 7/11/2009  | <0.002      |             |              | <0.002     | <0.002     |             |
| 12/22/2009 |             |             |              |            | 0.0025     |             |
| 12/23/2009 | 0.0025      |             | <0.002       | <0.002     |            |             |
| 6/23/2010  |             |             | <0.002       | <0.002     | <0.002     |             |
| 6/24/2010  | <0.002      |             |              |            |            |             |
| 1/8/2011   |             |             | <0.002       | <0.002     | <0.002     |             |
| 1/9/2011   | 0.004       |             |              |            |            |             |
| 7/10/2011  |             |             | <0.002       | <0.002     | <0.002     |             |
| 7/11/2011  | <0.002      |             |              |            |            |             |
| 1/19/2012  |             |             | <0.002       | <0.002     |            |             |
| 1/20/2012  | <0.002      |             |              |            | <0.002     |             |
| 7/12/2012  |             |             | <0.002       | <0.002     | <0.002     |             |
| 7/13/2012  | <0.002      |             |              |            |            |             |
| 1/21/2013  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 7/20/2013  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 1/17/2014  | <0.005 (J)  |             | <0.002       | <0.002     | <0.005 (J) |             |
| 7/12/2014  | <0.005 (J)  |             | <0.002       | <0.002     | <0.002     |             |
| 1/15/2015  |             |             | <0.002       | <0.002     |            |             |
| 1/16/2015  | <0.002      |             |              |            | <0.002     |             |
| 7/15/2015  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 1/16/2016  | <0.002      |             | <0.002       | <0.002     | <0.002     |             |
| 6/22/2016  | 0.002 (JD)  |             | 0.00205 (JD) | <0.002     | 0.001      |             |
| 1/19/2017  |             |             | <0.002       | <0.002     | <0.002     |             |
| 2/28/2017  | <0.002      |             |              |            |            |             |
| 7/17/2017  | <0.002      |             |              |            |            |             |
| 7/18/2017  |             |             | <0.002       | <0.002     |            |             |
| 7/19/2017  |             |             |              |            | <0.002     |             |

# Time Series

Page 2

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 1/8/2018  | <0.002      |             |             |            |            |             |
| 1/9/2018  |             |             | <0.002      | 0.0025     | <0.002     |             |
| 7/10/2018 | <0.002      |             | <0.002      | <0.002     | <0.002     |             |
| 1/30/2019 | <0.002      | 0.0035      | <0.002      | <0.002     | <0.002     | 0.0018 (J)  |
| 3/27/2019 | <0.002      |             |             |            | <0.002     |             |
| 3/28/2019 |             | 0.0031      | <0.002      | <0.002     |            | <0.002      |
| 9/11/2019 | <0.002      |             |             |            |            |             |
| 9/12/2019 |             | 0.0038      | 0.0024      | 0.0022     | 0.0011 (J) | 0.0041      |
| 3/10/2020 | <0.002      | 0.0021      | 0.00082 (J) | <0.002     | 0.0019 (J) |             |
| 3/11/2020 |             |             |             |            |            | 0.0032      |
| 4/2/2020  |             |             | 0.0019 (J)  |            |            |             |
| 9/21/2020 | <0.002      |             | <0.002      | <0.002     |            | 0.0018 (J)  |
| 9/22/2020 |             | 0.00096 (J) |             |            | 0.0013 (J) |             |

# Time Series

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1      | GWC-2      | GWC-4A | GWC-5      | GWC-6      |
|------------|------------|------------|--------|------------|------------|
| 10/5/1999  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 11/12/1999 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/29/1999 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 2/17/2000  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 9/13/2000  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 11/10/2000 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 1/4/2001   | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/11/2001 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 4/4/2002   | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/6/2002  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 6/28/2003  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/13/2003 | <0.002     | <0.002     | <0.002 | 0.0026     | <0.002     |
| 5/28/2004  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/10/2004 | <0.002     | 0.11 (o)   | <0.002 | <0.002     | 0.0044 (o) |
| 6/24/2005  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/13/2005 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 7/12/2006  | 0.0047 (o) | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/1/2006  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 6/21/2007  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/15/2007 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 6/21/2008  | <0.002     |            | <0.002 | <0.002     |            |
| 6/22/2008  |            | <0.002     |        |            | <0.002     |
| 12/6/2008  | <0.002     | <0.002     | <0.002 |            |            |
| 12/7/2008  |            |            |        | <0.002     | <0.002     |
| 7/11/2009  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 12/23/2009 | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 6/23/2010  | <0.002     | <0.002     | <0.002 | <0.002     |            |
| 6/24/2010  |            |            |        |            | <0.002     |
| 1/8/2011   | <0.002     | <0.002     | <0.002 | <0.002     |            |
| 1/9/2011   |            |            |        |            | <0.002     |
| 7/10/2011  | <0.002     | <0.002     | <0.002 | <0.002     |            |
| 7/11/2011  |            |            |        |            | <0.002     |
| 1/20/2012  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 7/12/2012  | <0.002     | <0.002     | <0.002 | <0.002     |            |
| 7/13/2012  |            |            |        |            | <0.002     |
| 1/21/2013  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 7/20/2013  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 1/17/2014  | <0.002     | 0.0065 (o) | <0.002 | <0.002     | <0.002     |
| 7/11/2014  |            |            | <0.002 | <0.002     |            |
| 7/12/2014  | <0.002     | <0.002     |        |            | <0.002     |
| 1/15/2015  |            | <0.002     |        |            |            |
| 1/16/2015  | <0.002     |            | <0.002 | <0.002     | <0.002     |
| 7/15/2015  | <0.002     | <0.002     | <0.002 | <0.002     | <0.002     |
| 1/16/2016  | <0.002     |            |        | <0.002     | <0.002     |
| 1/17/2016  |            | <0.002     | <0.002 |            |            |
| 6/22/2016  | <0.002     | 0.0005 (J) | <0.002 |            |            |
| 6/23/2016  |            |            |        | 0.0007 (J) | <0.002     |
| 1/23/2017  | <0.002     |            |        |            |            |
| 1/24/2017  |            | <0.002     |        | <0.002     |            |
| 1/25/2017  |            |            | <0.002 |            |            |
| 1/27/2017  |            |            |        |            | <0.002     |
| 7/19/2017  | <0.002     | <0.002     |        |            |            |

# Time Series

Page 2

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1  | GWC-2  | GWC-4A | GWC-5       | GWC-6  |
|-----------|--------|--------|--------|-------------|--------|
| 7/20/2017 |        |        | <0.002 | <0.002      | <0.002 |
| 1/9/2018  | <0.002 | <0.002 | <0.002 |             |        |
| 1/10/2018 |        |        |        | <0.002      | <0.002 |
| 7/10/2018 |        | <0.002 | <0.002 |             |        |
| 7/11/2018 | <0.002 |        |        | <0.002      | <0.002 |
| 1/30/2019 | <0.002 |        | <0.002 |             |        |
| 1/31/2019 |        | <0.002 |        | <0.002      | <0.002 |
| 3/28/2019 | <0.002 | <0.002 | <0.002 | <0.002      | <0.002 |
| 9/12/2019 | 0.0024 | 0.002  | <0.002 | 0.00084 (J) | 0.003  |
| 3/11/2020 | <0.002 |        |        |             | <0.002 |
| 3/31/2020 |        | <0.002 | <0.002 | <0.002      |        |
| 9/22/2020 | <0.002 | <0.002 | <0.002 | <0.002      | <0.002 |

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | <0.1        | <0.1       | 0.13 (J)   |             |
| 9/1/2016  | <0.1        |             |             |            |            |             |
| 1/19/2017 |             |             | <0.1        | 0.089 (J)  | <0.1       |             |
| 2/28/2017 | 0.098 (J)   |             |             |            |            |             |
| 7/17/2017 | <0.1        |             |             |            |            |             |
| 7/18/2017 |             |             | <0.1        | <0.1       |            |             |
| 7/19/2017 |             |             |             |            | <0.1       |             |
| 9/20/2017 | <0.1        |             | <0.1        |            |            |             |
| 9/21/2017 |             |             |             | <0.1       | 0.13 (J)   |             |
| 1/8/2018  | <0.1        |             |             |            |            |             |
| 1/9/2018  |             |             | <0.1        | <0.1       | 0.13 (J)   |             |
| 3/27/2018 | <0.1        |             | <0.1        | <0.1       | 0.21       |             |
| 7/10/2018 | <0.1        |             | <0.1        | <0.1       | 0.17 (J)   |             |
| 10/8/2018 | <0.1        | <0.1        |             | <0.1       | 0.11 (J)   | <0.1        |
| 10/9/2018 |             |             | <0.1        |            |            |             |
| 1/30/2019 | <0.1        | <0.1        | <0.1        | 0.029 (J)  | 0.089 (J)  | <0.1        |
| 3/27/2019 | <0.1        |             |             |            | 0.1 (J)    |             |
| 3/28/2019 |             | <0.1        | <0.1        | <0.1       |            | <0.1        |
| 9/11/2019 | <0.1        |             |             |            |            |             |
| 9/12/2019 |             | 0.036 (J)   | <0.1        | 0.035 (J)  | 0.052 (J)  | <0.1        |
| 3/10/2020 | <0.1        | <0.1        | 0.026 (J)   | 0.066 (J)  | 0.051 (J)  |             |
| 3/11/2020 |             |             |             |            |            | <0.1        |
| 4/2/2020  |             |             | 0.051 (J)   |            |            |             |
| 9/21/2020 | <0.1        |             | <0.1        | 0.06 (J)   |            | <0.1        |
| 9/22/2020 |             | 0.039 (J)   |             |            | 0.049 (J)  |             |

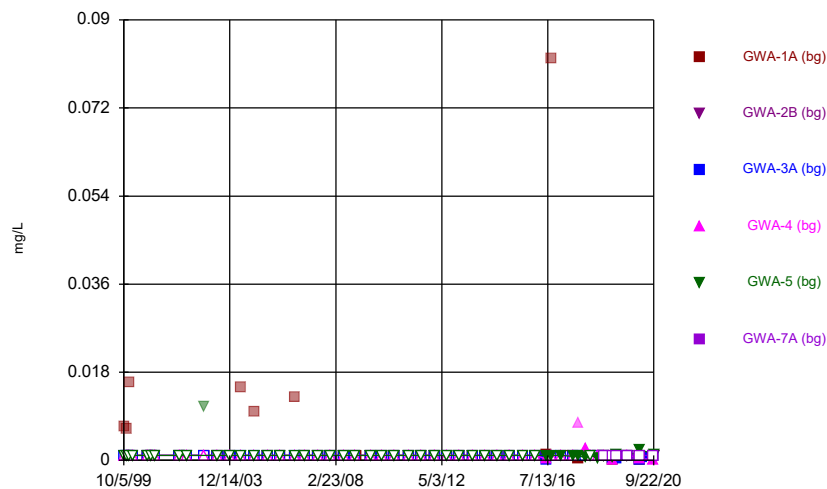


# Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

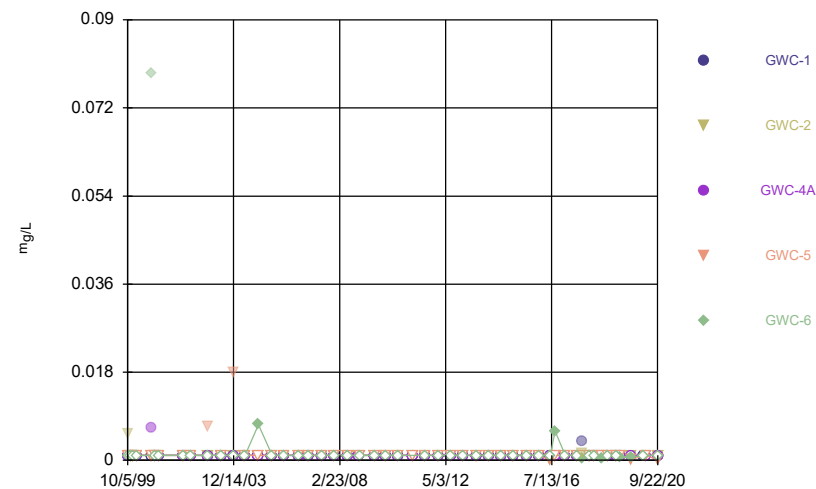
|           | GWC-1 | GWC-2     | GWC-4A    | GWC-5     | GWC-6 |
|-----------|-------|-----------|-----------|-----------|-------|
| 8/31/2016 | <0.1  | <0.1      | <0.1      |           |       |
| 9/1/2016  |       |           |           | <0.1      |       |
| 1/23/2017 | <0.1  |           |           |           |       |
| 1/24/2017 |       | <0.1      |           | 0.84      |       |
| 1/25/2017 |       |           | <0.1      |           |       |
| 1/27/2017 |       |           |           |           | <0.1  |
| 7/19/2017 | <0.1  | <0.1      |           |           |       |
| 7/20/2017 |       |           | <0.1      | 0.62      | <0.1  |
| 9/21/2017 | <0.1  | <0.1      | <0.1      | 0.71      |       |
| 9/22/2017 |       |           |           |           | <0.1  |
| 1/9/2018  | <0.1  | <0.1      | <0.1      |           |       |
| 1/10/2018 |       |           |           | 0.81      | <0.1  |
| 3/28/2018 | <0.1  |           | <0.1      | 0.45      |       |
| 3/29/2018 |       | <0.1      |           |           | <0.1  |
| 7/10/2018 |       | <0.1      | <0.1      |           |       |
| 7/11/2018 | <0.1  |           |           | 0.37      | <0.1  |
| 10/9/2018 | <0.1  | <0.1      | <0.1      | 0.098 (J) | <0.1  |
| 1/30/2019 | <0.1  |           | <0.1      |           |       |
| 1/31/2019 |       | <0.1      |           | 0.063 (J) | <0.1  |
| 3/28/2019 | <0.1  | <0.1      | <0.1      | 0.027 (J) | <0.1  |
| 9/12/2019 | <0.1  | <0.1      | <0.1      | 0.078 (J) | <0.1  |
| 3/11/2020 | <0.1  |           |           |           | <0.1  |
| 3/31/2020 |       | 0.043 (J) | 0.028 (J) | 0.16      |       |
| 9/22/2020 | <0.1  | <0.1      | <0.1      | 0.1       | <0.1  |

Time Series



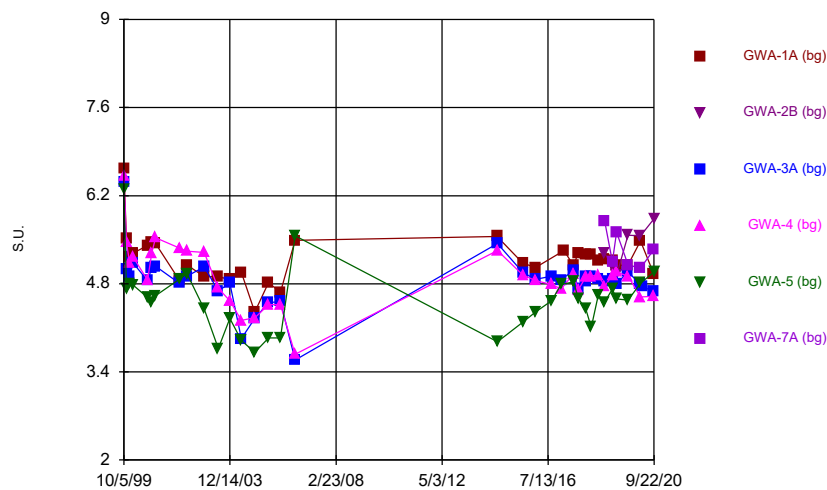
Constituent: Lead Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



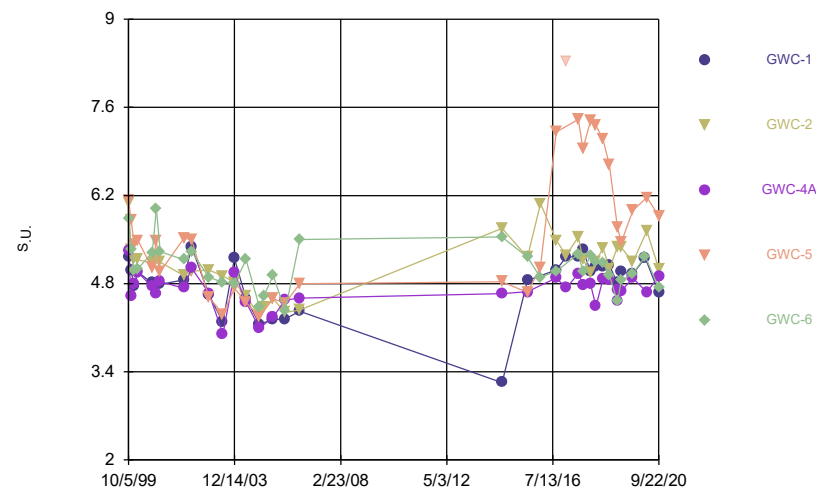
Constituent: Lead Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: pH Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: pH Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg)  | GWA-2B (bg) | GWA-3A (bg)  | GWA-4 (bg) | GWA-5 (bg)  | GWA-7A (bg) |
|------------|--------------|-------------|--------------|------------|-------------|-------------|
| 10/5/1999  | 0.007 (o)    |             | <0.001       | <0.001     | <0.001      |             |
| 11/12/1999 | 0.0063 (o)   |             | <0.001       | <0.001     | <0.001      |             |
| 12/29/1999 | 0.016 (o)    |             | <0.001       | <0.001     | <0.001      |             |
| 2/17/2000  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 9/13/2000  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 11/10/2000 | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 1/4/2001   | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 12/11/2001 | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 4/4/2002   | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 12/6/2002  | <0.001       |             | <0.001       | <0.001     | 0.011 (o)   |             |
| 6/28/2003  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 12/13/2003 | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 5/28/2004  | 0.015 (o)    |             | <0.001       | <0.001     | <0.001      |             |
| 12/10/2004 | 0.01 (o)     |             | <0.001       | <0.001     | <0.001      |             |
| 6/24/2005  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 12/13/2005 | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 7/12/2006  | 0.013 (o)    |             | <0.001       | <0.001     | <0.001      |             |
| 12/1/2006  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 6/21/2007  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 12/15/2007 | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 6/21/2008  |              |             |              | <0.001     |             |             |
| 6/22/2008  | <0.001       |             | <0.001       |            | <0.001      |             |
| 12/6/2008  |              |             | <0.001       | <0.001     | <0.001      |             |
| 12/7/2008  | <0.001       |             |              |            |             |             |
| 7/10/2009  |              |             | <0.001       |            |             |             |
| 7/11/2009  | <0.001       |             |              | <0.001     | <0.001      |             |
| 12/22/2009 |              |             |              |            | <0.001      |             |
| 12/23/2009 | <0.001       |             | <0.001       | <0.001     |             |             |
| 6/23/2010  |              |             | <0.001       | <0.001     | <0.001      |             |
| 6/24/2010  | <0.001       |             |              |            |             |             |
| 1/8/2011   |              |             | <0.001       | <0.001     | <0.001      |             |
| 1/9/2011   | <0.001       |             |              |            |             |             |
| 7/10/2011  |              |             | <0.001       | <0.001     | <0.001      |             |
| 7/11/2011  | <0.001       |             |              |            |             |             |
| 1/19/2012  |              |             | <0.001       | <0.001     |             |             |
| 1/20/2012  | <0.001       |             |              |            | <0.001      |             |
| 7/12/2012  |              |             | <0.001       | <0.001     | <0.001      |             |
| 7/13/2012  | <0.001       |             |              |            |             |             |
| 1/21/2013  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 7/20/2013  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 1/17/2014  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 7/12/2014  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 1/15/2015  |              |             | <0.001       | <0.001     |             |             |
| 1/16/2015  | <0.001       |             |              |            | <0.001      |             |
| 7/15/2015  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 1/16/2016  | <0.001       |             | <0.001       | <0.001     | <0.001      |             |
| 6/22/2016  | 0.00125 (JD) |             | 0.00025 (JD) | 0.0003 (J) | 0.001 (J)   |             |
| 8/31/2016  |              |             | <0.001       | <0.001     | 0.00099 (J) |             |
| 9/1/2016   | 0.082 (o)    |             |              |            |             |             |
| 1/19/2017  |              |             | <0.001       | <0.001     | 0.001 (J)   |             |
| 2/28/2017  | <0.001       |             |              |            |             |             |
| 7/17/2017  | <0.001       |             |              |            |             |             |

# Time Series

Page 2

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg)  | GWA-5 (bg)  | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| 7/18/2017 |             |             | <0.001      | <0.001      |             |             |
| 7/19/2017 |             |             |             |             | 0.00081 (J) |             |
| 9/20/2017 | 0.00035 (J) |             | <0.001      |             |             |             |
| 9/21/2017 |             |             |             | 0.0076 (o)  | 0.00086 (J) |             |
| 1/8/2018  | <0.001      |             |             |             |             |             |
| 1/9/2018  |             |             | <0.001      | 0.0023      | 0.00059 (J) |             |
| 3/27/2018 | <0.001      |             | <0.001      | <0.001      | <0.001      |             |
| 7/10/2018 | <0.001      |             | <0.001      | <0.001      | 0.00045 (J) |             |
| 10/8/2018 | <0.001      | <0.001      |             | <0.001      | <0.001      | <0.001      |
| 10/9/2018 |             |             | <0.001      |             |             |             |
| 1/30/2019 | 0.00021 (J) | 0.00028 (J) | 0.00034 (J) | 0.00013 (J) | 0.00064 (J) | <0.001      |
| 3/27/2019 | <0.001      |             |             |             | 0.0012 (J)  |             |
| 3/28/2019 |             | <0.001      | 0.00038 (J) | <0.001      |             | <0.001      |
| 9/11/2019 | <0.001      |             |             |             |             |             |
| 9/12/2019 |             | <0.001      | <0.001      | <0.001      | 0.00082 (J) | <0.001      |
| 3/10/2020 | 0.00015 (J) | <0.001      | 0.00013 (J) | 0.00031 (J) | 0.0022      |             |
| 3/11/2020 |             |             |             |             |             | <0.001      |
| 4/2/2020  |             |             | 0.00062 (J) |             |             |             |
| 9/21/2020 | <0.001      |             | <0.001      | 0.00025 (J) |             | <0.001      |
| 9/22/2020 |             | <0.001      |             |             | 0.0012      |             |

# Time Series

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1  | GWC-2      | GWC-4A     | GWC-5      | GWC-6      |
|------------|--------|------------|------------|------------|------------|
| 10/5/1999  | <0.001 | 0.0054 (o) | <0.001     | <0.001     | <0.001     |
| 11/12/1999 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/29/1999 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 2/17/2000  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 9/13/2000  | <0.001 | <0.001     | 0.0067 (o) | <0.001     | 0.079 (o)  |
| 11/10/2000 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 1/4/2001   | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/11/2001 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 4/4/2002   | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/6/2002  | <0.001 | <0.001     | <0.001     | 0.007 (o)  | <0.001     |
| 6/28/2003  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/13/2003 | <0.001 | <0.001     | <0.001     | 0.018 (o)  | <0.001     |
| 5/28/2004  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/10/2004 | <0.001 | <0.001     | <0.001     | <0.001     | 0.0073     |
| 6/24/2005  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/13/2005 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 7/12/2006  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/1/2006  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 6/21/2007  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/15/2007 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 6/21/2008  | <0.001 |            | <0.001     | <0.001     |            |
| 6/22/2008  |        | <0.001     |            |            | <0.001     |
| 12/6/2008  | <0.001 | <0.001     | <0.001     |            |            |
| 12/7/2008  |        |            |            | <0.001     | <0.001     |
| 7/11/2009  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 12/23/2009 | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 6/23/2010  | <0.001 | <0.001     | <0.001     | <0.001     |            |
| 6/24/2010  |        |            |            |            | <0.001     |
| 1/8/2011   | <0.001 | <0.001     | <0.001     | <0.001     |            |
| 7/10/2011  | <0.001 | <0.001     | <0.001     | <0.001     |            |
| 7/11/2011  |        |            |            |            | <0.001     |
| 1/20/2012  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 7/12/2012  | <0.001 | <0.001     | <0.001     | <0.001     |            |
| 7/13/2012  |        |            |            |            | <0.001     |
| 1/21/2013  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 7/20/2013  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 1/17/2014  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 7/11/2014  |        |            | <0.001     | <0.001     |            |
| 7/12/2014  | <0.001 | <0.001     |            |            | <0.001     |
| 1/15/2015  |        | <0.001     |            |            |            |
| 1/16/2015  | <0.001 |            | <0.001     | <0.001     | <0.001     |
| 7/15/2015  | <0.001 | <0.001     | <0.001     | <0.001     | <0.001     |
| 1/16/2016  | <0.001 |            |            | <0.001     | <0.001     |
| 1/17/2016  |        | <0.001     | <0.001     |            |            |
| 6/22/2016  | <0.001 | 0.0001 (J) | <0.001     |            |            |
| 6/23/2016  |        |            |            | 0.0001 (J) | <0.001     |
| 8/31/2016  | <0.001 | <0.001     | <0.001     |            |            |
| 9/1/2016   |        |            |            | <0.001     | 0.006      |
| 1/23/2017  | <0.001 |            |            |            |            |
| 1/24/2017  |        | <0.001     |            | <0.001     |            |
| 1/25/2017  |        |            | <0.001 (D) |            |            |
| 1/27/2017  |        |            |            |            | <0.001 (D) |

# Time Series

Page 2

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1     | GWC-2      | GWC-4A | GWC-5       | GWC-6       |
|-----------|-----------|------------|--------|-------------|-------------|
| 7/19/2017 | <0.001    | <0.001     |        |             |             |
| 7/20/2017 |           |            | <0.001 | <0.001      | <0.001      |
| 9/21/2017 | 0.004 (o) | 0.0014 (o) | <0.001 | <0.001      |             |
| 9/22/2017 |           |            |        |             | 0.00042 (J) |
| 1/9/2018  | <0.001    | <0.001     | <0.001 |             |             |
| 1/10/2018 |           |            |        | <0.001      | <0.001      |
| 3/28/2018 | <0.001    |            | <0.001 | <0.001      |             |
| 3/29/2018 |           | <0.001     |        |             | <0.001      |
| 7/10/2018 |           | <0.001     | <0.001 |             |             |
| 7/11/2018 | <0.001    |            |        | <0.001      | 0.00037 (J) |
| 10/9/2018 | <0.001    | <0.001     | <0.001 | <0.001      | <0.001      |
| 1/30/2019 | <0.001    |            | <0.001 |             |             |
| 1/31/2019 |           | <0.001     |        | <0.001      | <0.001      |
| 3/28/2019 | <0.001    | <0.001     | <0.001 | <0.001      | 0.00052 (J) |
| 9/12/2019 | <0.001    | <0.001     | <0.001 | 0.00024 (J) | 0.00065 (J) |
| 3/11/2020 | <0.001    |            |        |             | <0.001      |
| 3/31/2020 |           | <0.001     | <0.001 | <0.001      |             |
| 9/22/2020 | <0.001    | <0.001     | <0.001 | 0.00013 (J) | <0.001      |

# Time Series

Constituent: pH (S.U.) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|------------|-------------|-------------|-------------|------------|------------|-------------|
| 10/5/1999  | 6.63        |             | 6.42        | 6.51       | 6.3        |             |
| 11/12/1999 | 5.51        |             | 5.03        | 5.46       | 4.72       |             |
| 12/29/1999 | 5.23        |             | 4.92        | 5.13       | 4.8        |             |
| 2/17/2000  | 5.29        |             | 5.13        | 5.22       | 4.78       |             |
| 9/13/2000  | 5.41        |             | 4.85        | 4.86       | 4.58       |             |
| 11/10/2000 | 5.47        |             | 5.05        | 5.29       | 4.5        |             |
| 1/4/2001   | 5.44        |             | 5.08        | 5.53       | 4.61       |             |
| 12/11/2001 | 4.86        |             | 4.81        | 5.37       | 4.87       |             |
| 4/4/2002   | 5.1         |             | 4.92        | 5.32       | 4.96       |             |
| 12/6/2002  | 4.917 (D)   |             | 5.07 (D)    | 5.3 (D)    | 4.4 (D)    |             |
| 6/28/2003  | 4.91        |             | 4.69        | 4.73       | 3.77       |             |
| 12/13/2003 | 4.87        |             | 4.81        | 4.53       | 4.25       |             |
| 5/28/2004  | 4.98        |             | 3.93        | 4.22       | 3.9        |             |
| 12/10/2004 | 4.35        |             | 4.25        | 4.26       | 3.71       |             |
| 6/24/2005  | 4.82        |             | 4.5         | 4.47       | 3.94       |             |
| 12/13/2005 | 4.66        |             | 4.52        | 4.47       | 3.94       |             |
| 7/12/2006  | 5.49        |             | 3.59        | 3.68       | 5.56       |             |
| 7/11/2014  | 5.55        |             |             |            |            |             |
| 7/12/2014  |             |             | 5.44        | 5.33       | 3.88       |             |
| 7/15/2015  | 5.13        |             | 4.98        | 4.94       | 4.19       |             |
| 1/16/2016  | 5.06        |             | 4.87        | 4.85       | 4.35       |             |
| 8/31/2016  |             |             | 4.92        | 4.79       | 4.53       |             |
| 1/19/2017  |             |             | 4.86        | 4.72       | 4.79       |             |
| 2/28/2017  | 5.33        |             |             |            |            |             |
| 7/17/2017  | 5.09        |             |             |            |            |             |
| 7/18/2017  |             |             | 5.02        | 4.96       |            |             |
| 7/19/2017  |             |             |             |            | 4.83       |             |
| 9/20/2017  | 5.29        |             | 4.72        |            |            |             |
| 9/21/2017  |             |             |             | 4.7        | 4.57       |             |
| 1/8/2018   | 5.26        |             | 4.92        |            |            |             |
| 1/9/2018   |             |             | 4.83        | 4.91       | 4.4        |             |
| 3/27/2018  | 5.27        |             | 4.91        | 4.92       | 4.11       |             |
| 7/10/2018  | 5.17        |             | 4.87        | 4.94       | 4.62       |             |
| 10/8/2018  | 5.18        | 5.29        | 4.84        | 4.76       | 4.51       | 5.79        |
| 1/30/2019  | 5.17        | 5.08        | 4.88        | 4.94       | 4.72       | 5.15        |
| 3/27/2019  | 5.09        |             |             |            | 4.56       |             |
| 3/28/2019  |             | 4.93        | 4.8         | 4.99       |            | 5.62        |
| 9/11/2019  | 5.1         |             |             |            |            |             |
| 9/12/2019  |             | 5.57        | 4.99        | 4.92       | 4.54       | 5.1         |
| 3/10/2020  | 5.48        | 5.56        | 4.79        | 4.59       | 4.81       |             |
| 3/11/2020  |             |             |             |            |            | 5.05        |
| 4/2/2020   |             |             | 4.75        |            |            |             |
| 9/21/2020  | 4.95        |             | 4.69        | 4.6        |            | 5.35        |
| 9/22/2020  |             | 5.83        |             |            | 4.99       |             |

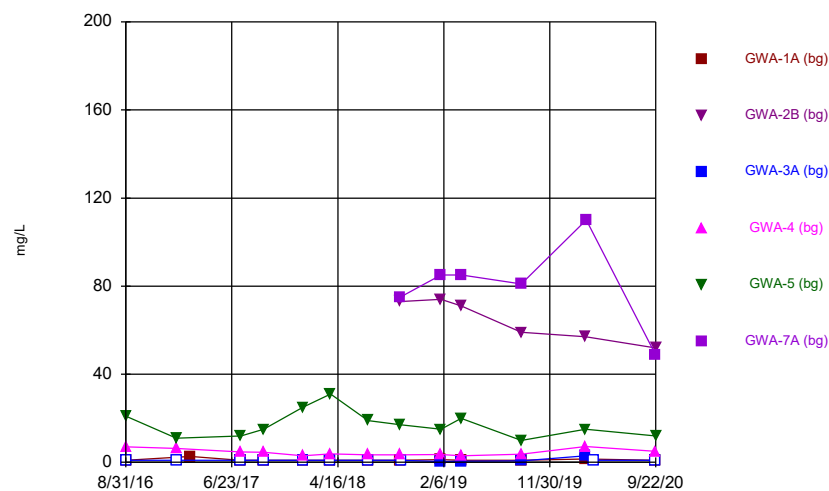
# Time Series

Constituent: pH (S.U.) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1 | GWC-2 | GWC-4A   | GWC-5    | GWC-6   |
|------------|-------|-------|----------|----------|---------|
| 10/5/1999  | 5.23  | 6.08  | 5.33     | 6.13     | 5.84    |
| 11/12/1999 | 5.02  | 5.35  | 4.6      | 5.81     | 5.34    |
| 12/29/1999 | 4.75  | 5.19  | 4.8      | 5.43     | 5.01    |
| 2/17/2000  | 4.99  | 5.18  | 4.98     | 5.49     | 5.04    |
| 9/13/2000  | 4.81  | 5.13  | 4.75     | 5.05     | 5.29    |
| 11/10/2000 | 4.79  | 5.2   | 4.65     | 5.48     | 5.99    |
| 1/4/2001   | 4.79  | 5.14  | 4.83     | 4.99     | 5.31    |
| 12/11/2001 | 4.86  | 4.93  | 4.73     | 5.52     | 5.18    |
| 4/4/2002   | 5.39  | 5     | 5.05     | 5.5      | 5.31    |
| 12/6/2002  | 4.63  | 5.02  | 4.65 (D) | 4.58 (D) | 4.9 (D) |
| 6/28/2003  | 4.19  | 4.92  | 4        | 4.32     | 4.82    |
| 12/13/2003 | 5.2   | 4.82  | 4.97     | 4.73     | 4.8     |
| 5/28/2004  | 4.57  | 4.6   | 4.51     | 4.5      | 5.18    |
| 12/10/2004 | 4.16  | 4.29  | 4.09     | 4.28     | 4.43    |
| 2/5/2005   |       | 4.43  |          |          | 4.6     |
| 6/24/2005  | 4.23  | 4.56  | 4.27     | 4.56     | 4.93    |
| 12/13/2005 | 4.24  | 4.34  | 4.54     | 4.49     | 4.36    |
| 7/12/2006  | 4.36  | 4.38  | 4.57     | 4.8      | 5.5     |
| 7/11/2014  |       |       | 4.64     | 4.83     | 5.54    |
| 7/12/2014  | 3.23  | 5.68  |          |          |         |
| 7/15/2015  | 4.85  | 5.22  | 4.67     | 4.66     | 5.22    |
| 1/16/2016  |       |       |          | 5.05     | 4.9     |
| 1/17/2016  |       | 6.07  |          |          |         |
| 8/31/2016  | 5.02  | 5.49  | 4.89     |          |         |
| 9/1/2016   |       |       |          | 7.21     | 5       |
| 1/23/2017  | 5.22  |       |          |          |         |
| 1/24/2017  |       | 5.25  |          | 8.32 (o) |         |
| 1/25/2017  |       |       | 4.73     |          |         |
| 7/19/2017  | 5.23  | 5.54  |          |          | 5.27    |
| 7/20/2017  |       |       | 4.96     | 7.41     |         |
| 9/21/2017  | 5.34  | 5.19  | 4.78     | 6.94     | 4.99    |
| 1/9/2018   | 5     | 4.97  | 4.79     | 7.39     | 5.25    |
| 3/28/2018  | 5.08  |       | 4.44     | 7.31     | 5.14    |
| 3/29/2018  |       | 5.15  |          |          |         |
| 7/10/2018  |       | 5.37  | 4.88     |          | 5.13    |
| 7/11/2018  | 5.07  |       |          | 7.09     |         |
| 10/9/2018  | 5.1   | 5.04  | 4.85     | 6.68     | 4.93    |
| 1/29/2019  |       |       | 4.7      |          |         |
| 1/30/2019  | 4.81  |       | 4.52     |          | 4.52    |
| 1/31/2019  |       | 5.38  |          | 5.69     | 4.52    |
| 3/28/2019  | 4.99  | 5.38  | 4.68     | 5.46     | 4.85    |
| 9/12/2019  | 4.95  | 5.14  | 4.89     | 5.96     | 4.96    |
| 3/11/2020  | 5.21  |       |          |          | 5.23    |
| 3/31/2020  |       | 5.64  | 4.66     | 6.17     |         |
| 9/22/2020  | 4.66  | 5.04  | 4.92     | 5.87     | 4.73    |

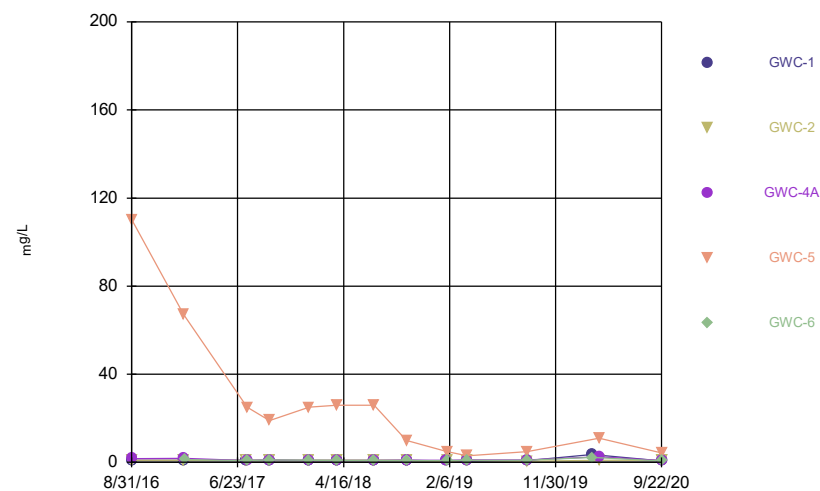


### Time Series



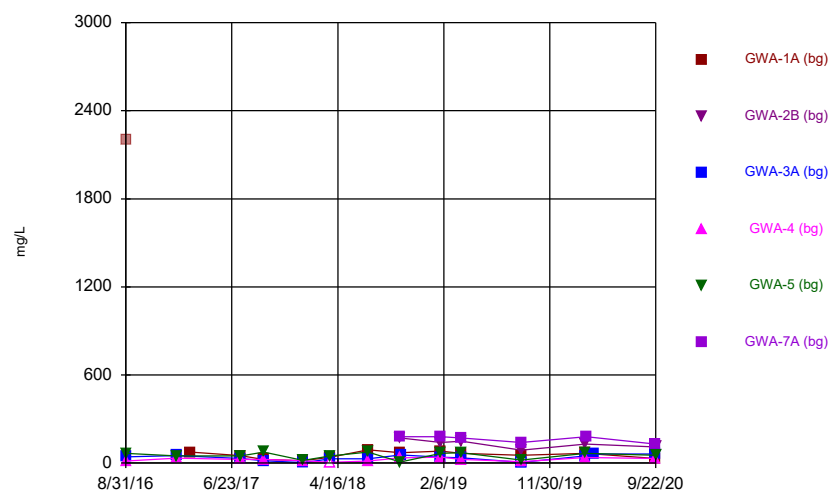
Constituent: Sulfate Analysis Run 12/2/2020 12:41 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

### Time Series



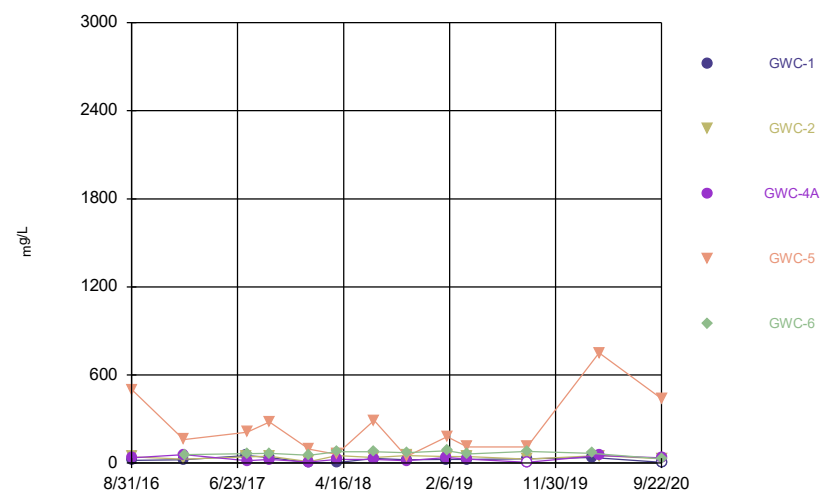
Constituent: Sulfate Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

### Time Series



Constituent: Total Dissolved Solids Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

### Time Series



Constituent: Total Dissolved Solids Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | <1          | 7          | 21         |             |
| 9/1/2016  | <1          |             |             |            |            |             |
| 1/19/2017 |             |             | <1          | 6.3        | 11         |             |
| 2/28/2017 | 2.7         |             |             |            |            |             |
| 7/17/2017 | <1          |             |             |            |            |             |
| 7/18/2017 |             |             | <1          | 4.7        |            |             |
| 7/19/2017 |             |             |             |            | 12         |             |
| 9/20/2017 | <1          |             | <1          |            |            |             |
| 9/21/2017 |             |             |             | 4.5        | 15         |             |
| 1/8/2018  | <1          |             |             |            |            |             |
| 1/9/2018  |             |             | <1          | 3          | 25         |             |
| 3/27/2018 | <1          |             | <1          | 3.8        | 31         |             |
| 7/10/2018 | <1          |             | <1          | 3.4        | 19         |             |
| 10/8/2018 | <1          | 73          |             | 3.4        | 17         | 75          |
| 10/9/2018 |             |             | <1          |            |            |             |
| 1/30/2019 | 1.2         | 74          | 0.41 (J)    | 3.5        | 15         | 85          |
| 3/27/2019 | <1          |             |             |            | 20         |             |
| 3/28/2019 |             | 71          | 0.44 (J)    | 3          |            | 85          |
| 9/11/2019 | <1          |             |             |            |            |             |
| 9/12/2019 |             | 59          | 0.69 (J)    | 3.7        | 10         | 81          |
| 3/10/2020 | 1.5         | 57          | 3           | 7.2        | 15         |             |
| 3/11/2020 |             |             |             |            |            | 110         |
| 4/2/2020  |             |             | <1          |            |            |             |
| 9/21/2020 | <1          |             | <1          | 5          |            | 49          |
| 9/22/2020 |             | 52          |             |            | 12         |             |

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1    | GWC-2    | GWC-4A   | GWC-5 | GWC-6    |
|-----------|----------|----------|----------|-------|----------|
| 8/31/2016 | <1       | <1       | 1.7      |       |          |
| 9/1/2016  |          |          |          | 110   |          |
| 1/23/2017 | <1       |          |          |       |          |
| 1/24/2017 |          | <1       |          | 67    |          |
| 1/25/2017 |          |          | 1.8      |       |          |
| 1/27/2017 |          |          |          |       | 1.2      |
| 7/19/2017 | <1       | <1       |          |       |          |
| 7/20/2017 |          |          | 0.83 (J) | 25    | 0.84 (J) |
| 9/21/2017 | <1       | <1       | 1.1      | 19    |          |
| 9/22/2017 |          |          |          |       | 1.1      |
| 1/9/2018  | <1       | <1       | 0.79 (J) |       |          |
| 1/10/2018 |          |          |          | 25    | 0.95 (J) |
| 3/28/2018 | <1       |          | 0.79 (J) | 26    |          |
| 3/29/2018 |          | <1       |          |       | 0.78 (J) |
| 7/10/2018 |          | <1       | 0.76 (J) |       |          |
| 7/11/2018 | <1       |          |          | 26    | 0.78 (J) |
| 10/9/2018 | <1       | <1       | <1       | 10    | 0.79 (J) |
| 1/30/2019 | 0.58 (J) |          | 0.9 (J)  |       |          |
| 1/31/2019 |          | 0.57 (J) |          | 4.8   | 0.86 (J) |
| 3/28/2019 | 0.67 (J) | <1       | 1.1      | 3     | 0.96 (J) |
| 9/12/2019 | 0.78 (J) | 0.43 (J) | 1.1      | 4.9   | 1        |
| 3/11/2020 | 3.5      |          |          |       | 2.2      |
| 3/31/2020 |          | 1        | 2.5      | 11    |          |
| 9/22/2020 | 0.63 (J) | <1       | 0.76 (J) | 4.3   | 0.59 (J) |

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/2/2020 12:43 PM

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 8/31/2016 |             |             | 42 (D)      | 14 (D)     | 66 (D)     |             |
| 9/1/2016  | 2200 (o)    |             |             |            |            |             |
| 1/19/2017 |             |             | 52 (D)      | 34 (D)     | 48 (D)     |             |
| 2/28/2017 | 74 (D)      |             |             |            |            |             |
| 7/17/2017 | 50          |             |             |            |            |             |
| 7/18/2017 |             |             | 32          | 26         |            |             |
| 7/19/2017 |             |             |             |            | 48         |             |
| 9/20/2017 | 26          |             | 16          |            |            |             |
| 9/21/2017 |             |             |             | 24         | 76         |             |
| 1/8/2018  | 16          |             |             |            |            |             |
| 1/9/2018  |             |             | 4 (J)       | 16         | 18         |             |
| 3/27/2018 | 40          |             | 30          | <10        | 48         |             |
| 7/10/2018 | 90          |             | 30          | 14         | 76         |             |
| 10/8/2018 | 70          | 170         |             | 36         | 8          | 180         |
| 10/9/2018 |             |             | 56          |            |            |             |
| 1/30/2019 | 82          | 140         | 41          | 40         | 67         | 180         |
| 3/27/2019 | 66          |             |             |            | 70         |             |
| 3/28/2019 |             | 150         | 36          | 24         |            | 170         |
| 9/11/2019 | 53          |             |             |            |            |             |
| 9/12/2019 |             | 89          | <10         | 10         | 20         | 140         |
| 3/10/2020 | 67          | 130         | 49          | 39         | 67         |             |
| 3/11/2020 |             |             |             |            |            | 180         |
| 4/2/2020  |             |             | 61          |            |            |             |
| 9/21/2020 | 31          |             | 61          | 31         |            | 130         |
| 9/22/2020 |             | 110         |             |            | 53         |             |

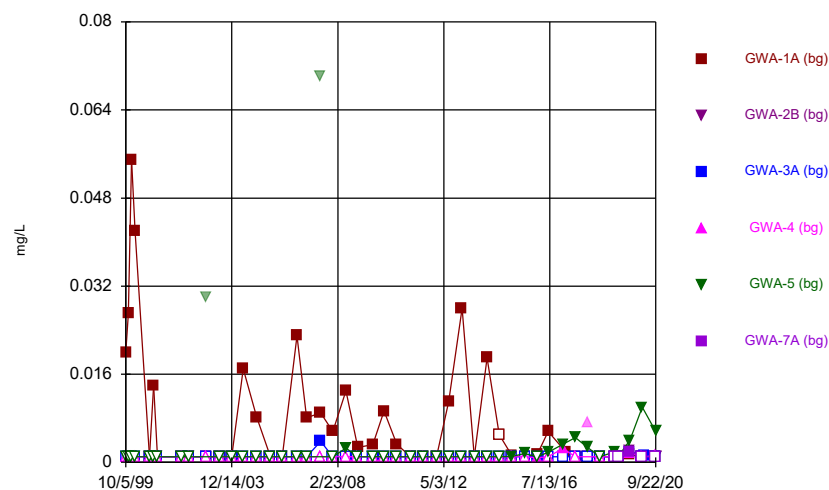
# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/2/2020 12:43 PM

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

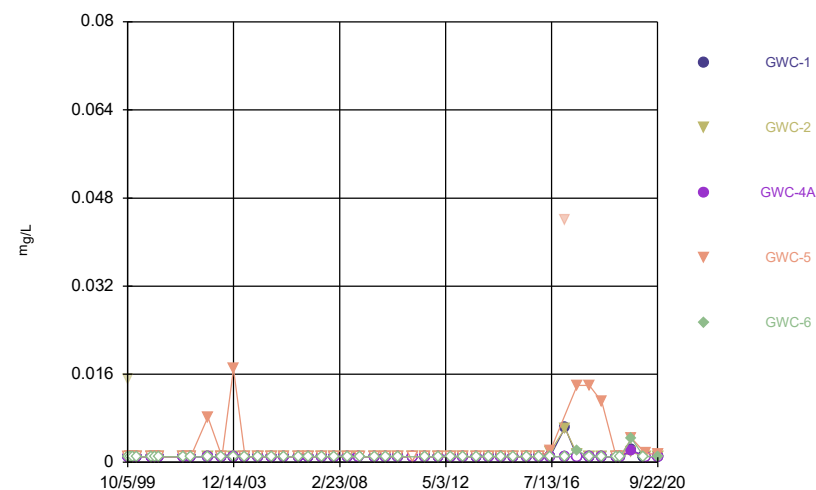
|           | GWC-1  | GWC-2  | GWC-4A | GWC-5   | GWC-6  |
|-----------|--------|--------|--------|---------|--------|
| 8/31/2016 | 18 (D) | 42 (D) | 36 (D) |         |        |
| 9/1/2016  |        |        |        | 500 (D) |        |
| 1/23/2017 | 22 (D) |        |        |         |        |
| 1/24/2017 |        | 28 (D) |        | 160 (D) |        |
| 1/25/2017 |        |        | 58 (D) |         |        |
| 1/27/2017 |        |        |        |         | 58 (D) |
| 7/19/2017 | 52     | 42     |        |         |        |
| 7/20/2017 |        |        | 16     | 210     | 64     |
| 9/21/2017 | 38     | 46     | 24     | 280     |        |
| 9/22/2017 |        |        |        |         | 66     |
| 1/9/2018  | 4 (J)  | 10     | 8      |         |        |
| 1/10/2018 |        |        |        | 94      | 54     |
| 3/28/2018 | 4 (J)  |        | 26     | 60      |        |
| 3/29/2018 |        | 52     |        |         | 78     |
| 7/10/2018 |        | 38     | 26     |         |        |
| 7/11/2018 | 32     |        |        | 290     | 78     |
| 10/9/2018 | 22     | 52     | 16     | 44      | 70     |
| 1/30/2019 | 24     |        | 37     |         |        |
| 1/31/2019 |        | 45     |        | 180     | 84     |
| 3/28/2019 | 25     | 45     | 28     | 110     | 62     |
| 9/12/2019 | 29     | 28     | <10    | 110     | 80     |
| 3/11/2020 | 37     |        |        |         | 67     |
| 3/31/2020 |        | 50     | 52     | 750     |        |
| 9/22/2020 | <10    | 30     | 36     | 440     | 30     |

Time Series



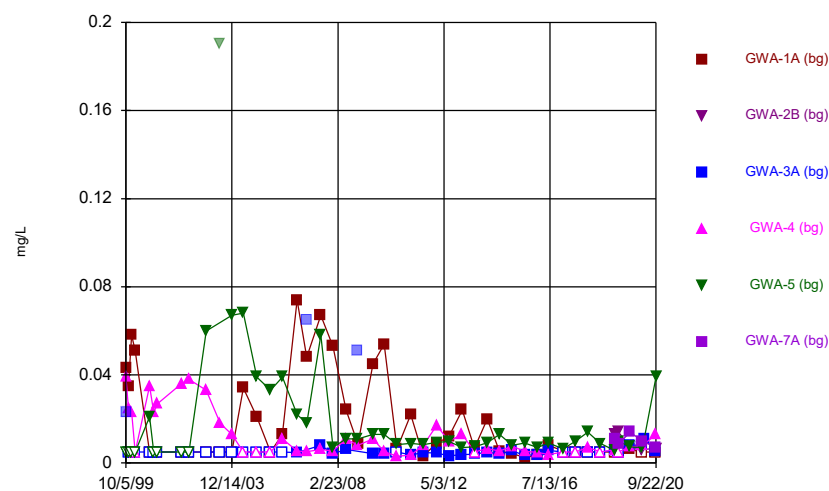
Constituent: Vanadium Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



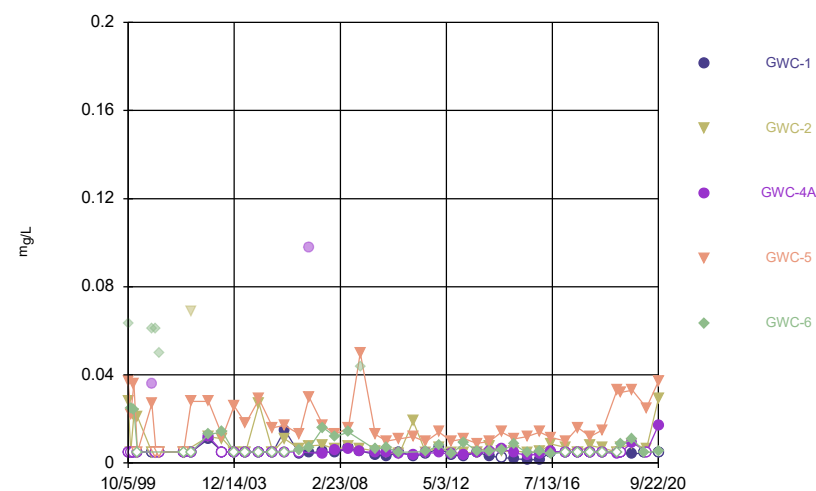
Constituent: Vanadium Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 12/2/2020 12:42 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg)  | GWA-5 (bg) | GWA-7A (bg) |
|------------|-------------|-------------|-------------|-------------|------------|-------------|
| 10/5/1999  | 0.02        |             | <0.001      | <0.001      | <0.001     |             |
| 11/12/1999 | 0.027       |             | <0.001      | <0.001      | <0.001     |             |
| 12/29/1999 | 0.055       |             | <0.001      | <0.001      | <0.001     |             |
| 2/17/2000  | 0.042       |             | <0.001      | <0.001      | <0.001     |             |
| 9/13/2000  | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 11/10/2000 | 0.014       |             | <0.001      | <0.001      | <0.001     |             |
| 1/4/2001   | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 12/11/2001 | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 4/4/2002   | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 12/6/2002  | <0.001      |             | <0.001      | <0.001      | 0.03 (o)   |             |
| 6/28/2003  | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 12/13/2003 | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 5/28/2004  | 0.017       |             | <0.001      | <0.001      | <0.001     |             |
| 12/10/2004 | 0.0082      |             | <0.001      | <0.001      | <0.001     |             |
| 6/24/2005  | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 12/13/2005 | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 7/12/2006  | 0.023       |             | <0.001      | <0.001      | <0.001     |             |
| 12/1/2006  | 0.0081      |             | <0.001      | <0.001      | <0.001     |             |
| 6/21/2007  | 0.009       |             | 0.0038      | <0.001      | 0.07 (o)   |             |
| 12/15/2007 | 0.0056      |             | <0.001      | <0.001      | <0.001     |             |
| 6/21/2008  |             |             |             | <0.001      |            |             |
| 6/22/2008  | 0.013       |             | <0.001      |             | 0.0026     |             |
| 12/6/2008  |             |             | <0.001      | <0.001      | <0.001     |             |
| 12/7/2008  | 0.0027      |             |             |             |            |             |
| 7/10/2009  |             |             | <0.001      |             |            |             |
| 7/11/2009  | 0.0032      |             |             | <0.001      | <0.001     |             |
| 12/22/2009 |             |             |             |             | <0.001     |             |
| 12/23/2009 | 0.0093      |             | <0.001      | <0.001      |            |             |
| 6/23/2010  |             |             | <0.001      | <0.001      | <0.001     |             |
| 6/24/2010  | 0.0033      |             |             |             |            |             |
| 1/8/2011   |             |             | <0.001      | <0.001      | <0.001     |             |
| 1/9/2011   | <0.001      |             |             |             |            |             |
| 7/10/2011  |             |             | <0.001      | <0.001      | <0.001     |             |
| 7/11/2011  | <0.001      |             |             |             |            |             |
| 1/19/2012  |             |             | <0.001      | <0.001      |            |             |
| 1/20/2012  | <0.001      |             |             |             | <0.001     |             |
| 7/12/2012  |             |             | <0.001      | <0.001      | <0.001     |             |
| 7/13/2012  | 0.011       |             |             |             |            |             |
| 1/21/2013  | 0.028       |             | <0.001      | <0.001      | <0.001     |             |
| 7/20/2013  | <0.001      |             | <0.001      | <0.001      | <0.001     |             |
| 1/17/2014  | 0.019       |             | <0.001      | <0.001      | <0.001     |             |
| 7/12/2014  | <0.005 (J)  |             | <0.001      | <0.001      | <0.001     |             |
| 1/15/2015  |             |             | <0.001      | <0.001      |            |             |
| 1/16/2015  | 0.0012 (J)  |             |             |             | 0.0011 (J) |             |
| 7/15/2015  | <0.001      |             | <0.001      | <0.001      | 0.0016 (J) |             |
| 1/16/2016  | 0.0015 (J)  |             | 0.0011 (J)  | 0.00082 (J) | <0.001     |             |
| 6/22/2016  | 0.0056 (D)  |             | <0.001      | <0.001      | 0.0018 (J) |             |
| 1/19/2017  |             |             | <0.001      | 0.0025      | 0.0033     |             |
| 2/28/2017  | 0.0019 (J)  |             |             |             |            |             |
| 7/17/2017  | <0.001      |             |             |             |            |             |
| 7/18/2017  |             |             | <0.001      | <0.001      |            |             |
| 7/19/2017  |             |             |             |             | 0.0045     |             |

# Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 1/8/2018  | <0.001      |             |             |            |            |             |
| 1/9/2018  |             |             | <0.001      | 0.0072 (o) | 0.0027     |             |
| 7/10/2018 | <0.001      |             | <0.001      | <0.001     | <0.001     |             |
| 1/30/2019 | <0.001      | <0.001      | <0.001      | <0.001     | 0.0019 (J) | <0.001      |
| 3/27/2019 | <0.001      |             |             |            | <0.001     |             |
| 3/28/2019 |             | <0.001      | <0.001      | <0.001     |            | <0.001      |
| 9/11/2019 | 0.0014      |             |             |            |            |             |
| 9/12/2019 |             | 0.0021      | 0.002       | 0.0017     | 0.004      | 0.002       |
| 3/10/2020 | <0.001      | <0.001      | <0.001      | <0.001     | 0.01       |             |
| 3/11/2020 |             |             |             |            |            | <0.001      |
| 4/2/2020  |             |             | 0.0013      |            |            |             |
| 9/21/2020 | <0.001      |             | <0.001      | 0.0012     |            | <0.001      |
| 9/22/2020 |             | <0.001      |             |            | 0.0056     |             |



# Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1  | GWC-2      | GWC-4A | GWC-5      | GWC-6      |
|------------|--------|------------|--------|------------|------------|
| 10/5/1999  | <0.001 | 0.015 (o)  | <0.001 | <0.001     | <0.001     |
| 11/12/1999 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/29/1999 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 2/17/2000  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 9/13/2000  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 11/10/2000 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 1/4/2001   | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/11/2001 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 4/4/2002   | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/6/2002  | <0.001 | <0.001     | <0.001 | 0.0082     | <0.001     |
| 6/28/2003  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/13/2003 | <0.001 | <0.001     | <0.001 | 0.017      | <0.001     |
| 5/28/2004  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/10/2004 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 6/24/2005  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/13/2005 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 7/12/2006  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/1/2006  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 6/21/2007  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/15/2007 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 6/21/2008  | <0.001 |            | <0.001 | <0.001     |            |
| 6/22/2008  |        | <0.001     |        |            | <0.001     |
| 12/6/2008  | <0.001 | <0.001     | <0.001 |            |            |
| 12/7/2008  |        |            |        | <0.001     | <0.001     |
| 7/11/2009  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 12/23/2009 | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 6/23/2010  | <0.001 | <0.001     | <0.001 | <0.001     |            |
| 6/24/2010  |        |            |        |            | <0.001     |
| 1/8/2011   | <0.001 | <0.001     | <0.001 | <0.001     |            |
| 7/10/2011  | <0.001 | <0.001     | <0.001 | <0.001     |            |
| 7/11/2011  |        |            |        |            | <0.001     |
| 1/20/2012  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 7/12/2012  | <0.001 | <0.001     | <0.001 | <0.001     |            |
| 7/13/2012  |        |            |        |            | <0.001     |
| 1/21/2013  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 7/20/2013  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 1/17/2014  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 7/11/2014  |        |            | <0.001 | <0.001     |            |
| 7/12/2014  | <0.001 | <0.001     |        |            | <0.001     |
| 1/15/2015  |        | <0.001     |        |            |            |
| 1/16/2015  | <0.001 |            | <0.001 | <0.001     | <0.001     |
| 7/15/2015  | <0.001 | <0.001     | <0.001 | <0.001     | <0.001     |
| 1/16/2016  | <0.001 |            |        | <0.001     | <0.001     |
| 1/17/2016  |        | <0.001     | <0.001 |            |            |
| 6/22/2016  | <0.001 | 0.0019 (J) | <0.001 |            |            |
| 6/23/2016  |        |            |        | 0.0021 (J) | <0.001     |
| 1/23/2017  | 0.0063 |            |        |            |            |
| 1/24/2017  |        | 0.0062     |        | 0.044 (o)  |            |
| 1/25/2017  |        |            | <0.001 |            |            |
| 1/27/2017  |        |            |        |            | <0.001     |
| 7/19/2017  | <0.001 | 0.0015 (J) |        |            |            |
| 7/20/2017  |        |            | <0.001 | 0.014      | 0.0021 (J) |

# Time Series

Page 2

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1  | GWC-2  | GWC-4A | GWC-5     | GWC-6  |
|-----------|--------|--------|--------|-----------|--------|
| 1/9/2018  | <0.001 | <0.001 | <0.001 |           |        |
| 1/10/2018 |        |        |        | 0.014     | <0.001 |
| 7/10/2018 |        | <0.001 | <0.001 |           |        |
| 7/11/2018 | <0.001 |        |        | 0.011 (J) | <0.001 |
| 1/30/2019 | <0.001 |        | <0.001 |           |        |
| 1/31/2019 |        | <0.001 |        | <0.001    | <0.001 |
| 3/28/2019 | <0.001 | <0.001 | <0.001 | <0.001    | <0.001 |
| 9/12/2019 | 0.0023 | 0.0018 | 0.0021 | 0.0044    | 0.0043 |
| 3/11/2020 | <0.001 |        |        |           | <0.001 |
| 3/31/2020 |        | <0.001 | <0.001 | 0.0016    |        |
| 9/22/2020 | <0.001 | <0.001 | <0.001 | 0.0015    | 0.0011 |

# Time Series

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:43 PM  
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg)  | GWA-2B (bg) | GWA-3A (bg)  | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|------------|--------------|-------------|--------------|------------|------------|-------------|
| 10/5/1999  | 0.043        |             | 0.023 (o)    | 0.039      | <0.005     |             |
| 11/12/1999 | 0.035        |             | <0.005       | 0.025      | <0.005     |             |
| 12/29/1999 | 0.058        |             | <0.005       | 0.023      | <0.005     |             |
| 2/17/2000  | 0.051        |             | <0.005       | <0.005     | <0.005     |             |
| 9/13/2000  | <0.005       |             | <0.005       | 0.035      | 0.021      |             |
| 11/10/2000 | <0.005       |             | <0.005       | 0.023      | <0.005     |             |
| 1/4/2001   | <0.005       |             | <0.005       | 0.027      | <0.005     |             |
| 12/11/2001 | <0.005       |             | <0.005       | 0.036      | <0.005     |             |
| 4/4/2002   | <0.005       |             | <0.005       | 0.038      | <0.005     |             |
| 12/6/2002  | <0.005       |             | <0.005       | 0.033      | 0.06       |             |
| 6/28/2003  | <0.005       |             | <0.005       | 0.018      | 0.19 (o)   |             |
| 12/13/2003 | <0.005       |             | <0.005       | 0.013      | 0.067      |             |
| 5/28/2004  | 0.034        |             | <0.005       | <0.005     | 0.068      |             |
| 12/10/2004 | 0.021        |             | <0.005       | <0.005     | 0.039      |             |
| 6/24/2005  | <0.005       |             | <0.005       | <0.005     | 0.033      |             |
| 12/13/2005 | 0.013        |             | <0.005       | 0.011      | 0.039      |             |
| 7/12/2006  | 0.074        |             | 0.0047       | 0.0055     | 0.022      |             |
| 12/1/2006  | 0.048        |             | 0.065 (o)    | 0.0052     | 0.018      |             |
| 6/21/2007  | 0.067        |             | 0.008        | 0.0062     | 0.058      |             |
| 12/15/2007 | 0.053        |             | 0.0043       | 0.0055     | 0.0072     |             |
| 6/21/2008  |              |             |              | 0.011      |            |             |
| 6/22/2008  | 0.024        |             | 0.0062       |            | 0.011      |             |
| 12/6/2008  |              |             | 0.051 (o)    | 0.008      | 0.011      |             |
| 12/7/2008  | 0.0087       |             |              |            |            |             |
| 7/10/2009  |              |             | 0.0043       |            |            |             |
| 7/11/2009  | 0.045        |             |              | 0.011      | 0.013      |             |
| 12/22/2009 |              |             |              |            | 0.013      |             |
| 12/23/2009 | 0.054        |             | 0.0039       | 0.0051     |            |             |
| 6/23/2010  |              |             | <0.005       | 0.0031     | 0.0084     |             |
| 6/24/2010  | 0.0065       |             |              |            |            |             |
| 1/8/2011   |              |             | 0.0037       | 0.0035     | 0.0089     |             |
| 1/9/2011   | 0.022        |             |              |            |            |             |
| 7/10/2011  |              |             | 0.0047       | 0.0081     | 0.0084     |             |
| 7/11/2011  | 0.0032       |             |              |            |            |             |
| 1/19/2012  |              |             | 0.0045       | 0.017      |            |             |
| 1/20/2012  | 0.0089       |             |              |            | 0.0094     |             |
| 7/12/2012  |              |             | 0.0033       | 0.01       | 0.0098     |             |
| 7/13/2012  | 0.012        |             |              |            |            |             |
| 1/21/2013  | 0.024        |             | 0.0038       | 0.013      | 0.007      |             |
| 7/20/2013  | 0.0068       |             | 0.004        | <0.005     | 0.0074     |             |
| 1/17/2014  | 0.02         |             | 0.005        | 0.0066     | 0.0092     |             |
| 7/12/2014  | 0.0055       |             | 0.004        | 0.0054     | 0.013      |             |
| 1/15/2015  |              |             | 0.0056       | 0.0076     |            |             |
| 1/16/2015  | 0.0043       |             |              |            | 0.0081     |             |
| 7/15/2015  | 0.0026       |             | 0.0034       | 0.0053     | 0.009      |             |
| 1/16/2016  | 0.0035       |             | 0.0038       | 0.0048     | 0.007      |             |
| 6/22/2016  | 0.00805 (JD) |             | 0.00575 (JD) | 0.0038 (J) | 0.0091 (J) |             |
| 1/19/2017  |              |             | <0.005       | <0.005     | 0.0065 (J) |             |
| 2/28/2017  | <0.005       |             |              |            |            |             |
| 7/17/2017  | <0.005       |             |              |            |            |             |
| 7/18/2017  |              |             | <0.005       | <0.005     |            |             |
| 7/19/2017  |              |             |              |            | 0.0099 (J) |             |

# Time Series

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-2B (bg) | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWA-7A (bg) |
|-----------|-------------|-------------|-------------|------------|------------|-------------|
| 1/8/2018  | <0.005      |             |             |            |            |             |
| 1/9/2018  |             |             | <0.005      | 0.0072 (J) | 0.014 (J)  |             |
| 7/10/2018 | <0.005      |             | <0.005      | <0.005     | 0.0089 (J) |             |
| 1/30/2019 | <0.005      | 0.013 (J)   | 0.0058 (J)  | 0.006 (J)  | 0.0057 (J) | 0.011 (J)   |
| 3/27/2019 | <0.005      |             |             |            | 0.01 (J)   |             |
| 3/28/2019 |             | 0.014 (J)   | <0.005      | <0.005     |            | 0.0086 (J)  |
| 9/11/2019 | 0.0062      |             |             |            |            |             |
| 9/12/2019 |             | 0.0075      | 0.0081      | 0.0073     | 0.0074     | 0.014       |
| 3/10/2020 | <0.005      | 0.0061      | 0.0079      | 0.0079     | 0.0071     |             |
| 3/11/2020 |             |             |             |            |            | 0.0099      |
| 4/2/2020  |             |             | 0.011       |            |            |             |
| 9/21/2020 | <0.005      |             | 0.0055      | 0.013      |            | 0.007       |
| 9/22/2020 |             | 0.0066      |             |            | 0.039      |             |

# Time Series

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1       | GWC-2      | GWC-4A     | GWC-5     | GWC-6      |
|------------|-------------|------------|------------|-----------|------------|
| 10/5/1999  | <0.005      | 0.028      | <0.005     | 0.037     | 0.063 (o)  |
| 11/12/1999 | <0.005      | <0.005     | <0.005     | 0.022     | 0.025      |
| 12/29/1999 | <0.005      | 0.022      | <0.005     | 0.036     | 0.024      |
| 2/17/2000  | <0.005      | 0.021      | <0.005     | <0.005    | <0.005     |
| 9/13/2000  | <0.005      | <0.005     | 0.036 (o)  | 0.027     | 0.061 (o)  |
| 11/10/2000 | <0.005      | <0.005     | <0.005     | <0.005    | 0.061 (o)  |
| 1/4/2001   | <0.005      | <0.005     | <0.005     | <0.005    | 0.05 (o)   |
| 12/11/2001 | <0.005      | <0.005     | <0.005     | <0.005    | <0.005     |
| 4/4/2002   | <0.005      | 0.069 (o)  | <0.005     | 0.028     | <0.005     |
| 12/6/2002  | 0.011       | 0.012      | 0.012      | 0.028     | 0.013      |
| 6/28/2003  | <0.005      | 0.011      | <0.005     | 0.012     | 0.014      |
| 12/13/2003 | <0.005      | <0.005     | <0.005     | 0.026     | <0.005     |
| 5/28/2004  | <0.005      | <0.005     | <0.005     | 0.018     | <0.005     |
| 12/10/2004 | <0.005      | 0.027      | <0.005     | 0.029     | <0.005     |
| 6/24/2005  | <0.005      | <0.005     | <0.005     | 0.016     | <0.005     |
| 12/13/2005 | 0.015       | 0.011      | <0.005     | 0.017     | <0.005     |
| 7/12/2006  | 0.0042      | 0.0064     | <0.005     | 0.013     | 0.0057     |
| 12/1/2006  | 0.0047      | 0.0077     | 0.098 (o)  | 0.03      | 0.0068     |
| 6/21/2007  | 0.0052      | 0.0082     | 0.0043     | 0.017     | 0.016      |
| 12/15/2007 | 0.0046      | 0.0063     | 0.0057     | 0.013     | 0.012      |
| 6/21/2008  | 0.0067      |            | 0.0064     | 0.016     |            |
| 6/22/2008  |             | 0.0074     |            |           | 0.014      |
| 12/6/2008  | 0.0054      | 0.0066     | 0.0052     |           |            |
| 12/7/2008  |             |            |            | 0.05      | 0.044 (o)  |
| 7/11/2009  | 0.0038      | 0.0054     | 0.0049     | 0.013     | 0.0062     |
| 12/23/2009 | 0.0029      | 0.0046     | 0.005      | 0.01      | 0.007      |
| 6/23/2010  | <0.005      | 0.0041     | 0.0044     | 0.011     |            |
| 6/24/2010  |             |            |            |           | 0.0049     |
| 1/8/2011   | 0.0032      | 0.019      | 0.0036     | 0.012     |            |
| 7/10/2011  | 0.004       | 0.005      | 0.0046     | 0.0096    |            |
| 7/11/2011  |             |            |            |           | 0.0052     |
| 1/20/2012  | 0.0067      | 0.007      | 0.0045     | 0.014     | 0.0081     |
| 7/12/2012  | 0.0036      | 0.0045     | 0.0041     | 0.01      |            |
| 7/13/2012  |             |            |            |           | 0.004      |
| 1/21/2013  | 0.0031      | 0.0045     | 0.0038     | 0.011     | 0.0093     |
| 7/20/2013  | <0.005      | <0.005     | 0.0047     | 0.0089    | 0.0054     |
| 1/17/2014  | 0.0031      | 0.0075     | 0.0051     | 0.0098    | 0.0054     |
| 7/11/2014  |             |            | 0.0066     | 0.014     |            |
| 7/12/2014  | <0.0025 (J) | 0.0051     |            |           | 0.0057     |
| 1/15/2015  |             | 0.0054     |            |           |            |
| 1/16/2015  | 0.002 (J)   |            | 0.0046     | 0.011     | 0.0084     |
| 7/15/2015  | 0.0015 (J)  | 0.0049     | 0.0036     | 0.012     | 0.0046     |
| 1/16/2016  | 0.0015 (J)  |            |            | 0.014     | 0.0051     |
| 1/17/2016  |             | 0.0051     | 0.004      |           |            |
| 6/22/2016  | <0.005      | 0.0087 (J) | 0.0053 (J) |           |            |
| 6/23/2016  |             |            |            | 0.0116    | 0.0041 (J) |
| 1/23/2017  | <0.005      |            |            |           |            |
| 1/24/2017  |             | 0.0071 (J) |            | 0.01 (J)  |            |
| 1/25/2017  |             |            | <0.005     |           |            |
| 1/27/2017  |             |            |            |           | <0.005     |
| 7/19/2017  | <0.005      | <0.005     |            |           |            |
| 7/20/2017  |             |            | <0.005     | 0.016 (J) | <0.005     |

# Time Series

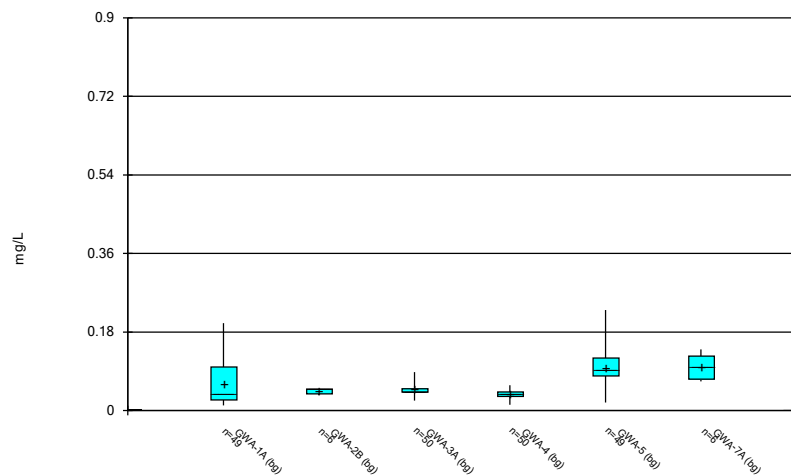
Page 2

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:43 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1      | GWC-2      | GWC-4A     | GWC-5     | GWC-6      |
|-----------|------------|------------|------------|-----------|------------|
| 1/9/2018  | <0.005     | 0.0079 (J) | <0.005     |           |            |
| 1/10/2018 |            |            |            | 0.012 (J) | <0.005     |
| 7/10/2018 |            | 0.0067 (J) | <0.005     |           |            |
| 7/11/2018 | <0.005     |            |            | 0.015 (J) | <0.005     |
| 1/30/2019 | <0.005     |            | 0.0042 (J) |           |            |
| 1/31/2019 |            | <0.005     |            | 0.033     | <0.005     |
| 3/28/2019 | <0.005     | 0.0069 (J) | <0.005     | 0.032     | 0.0084 (J) |
| 9/12/2019 | 0.0039 (J) | 0.0089     | 0.0093     | 0.033     | 0.011      |
| 3/11/2020 | <0.005     |            |            |           | 0.0047 (J) |
| 3/31/2020 |            | 0.0065     | <0.005     | 0.025     |            |
| 9/22/2020 | <0.005     | 0.029      | 0.017      | 0.037     | 0.0053     |

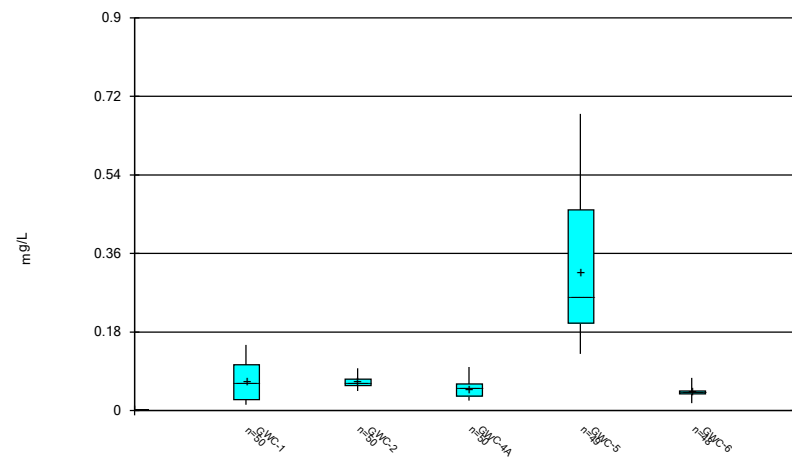
FIGURE B.

Box &amp; Whiskers Plot



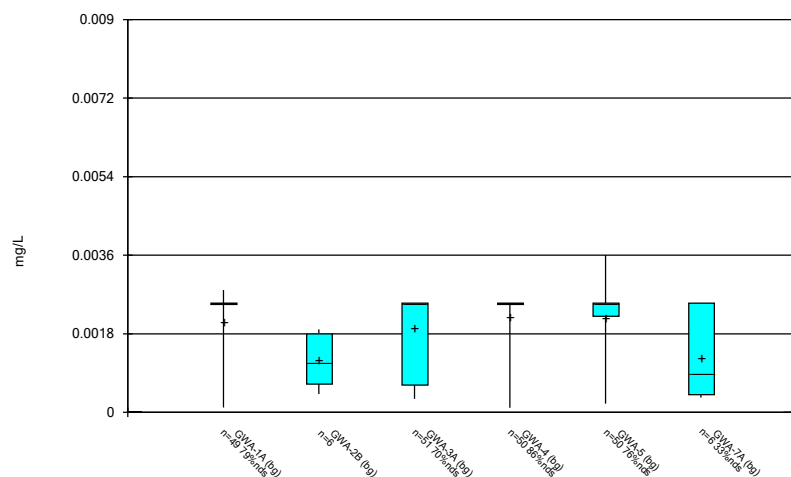
Constituent: Barium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



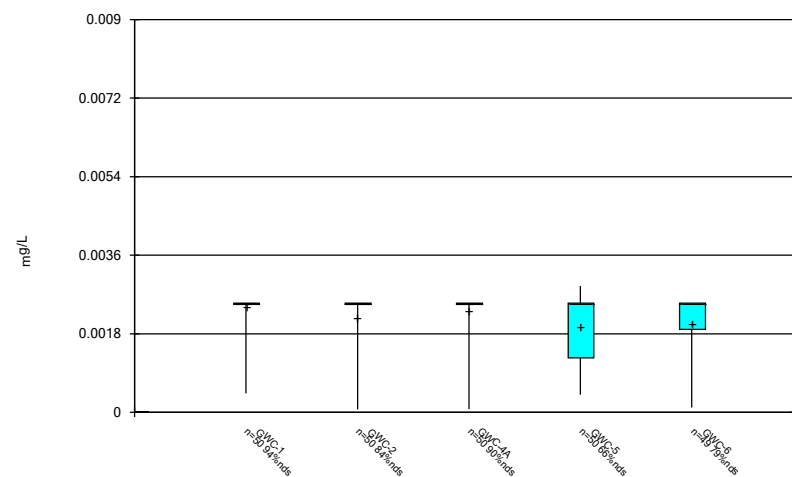
Constituent: Barium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



Constituent: Beryllium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

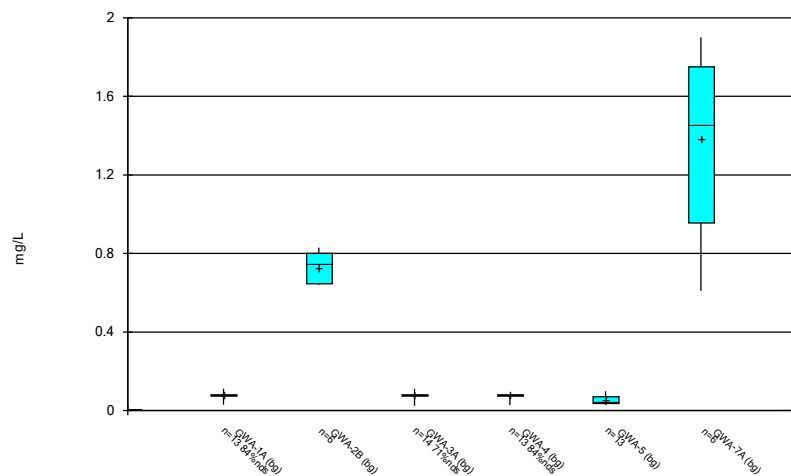
Box &amp; Whiskers Plot



Constituent: Beryllium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

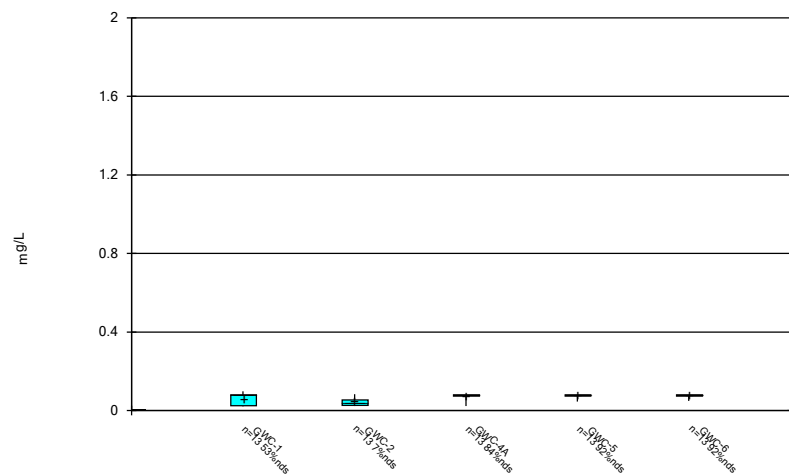


Box &amp; Whiskers Plot



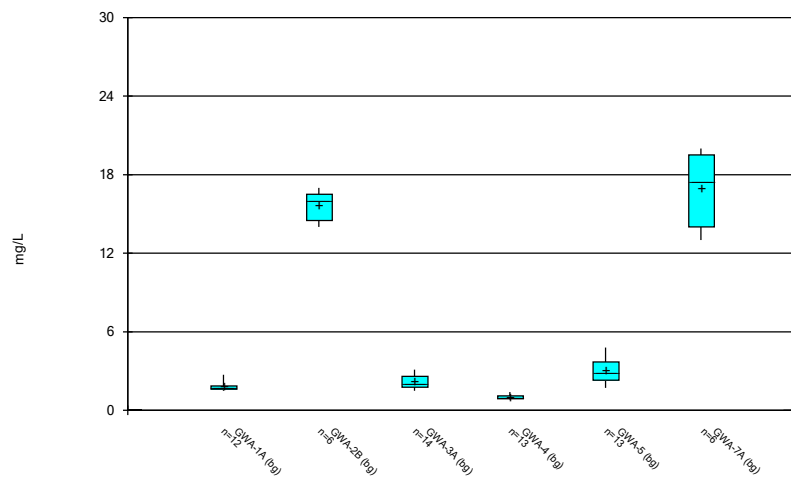
Constituent: Boron Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



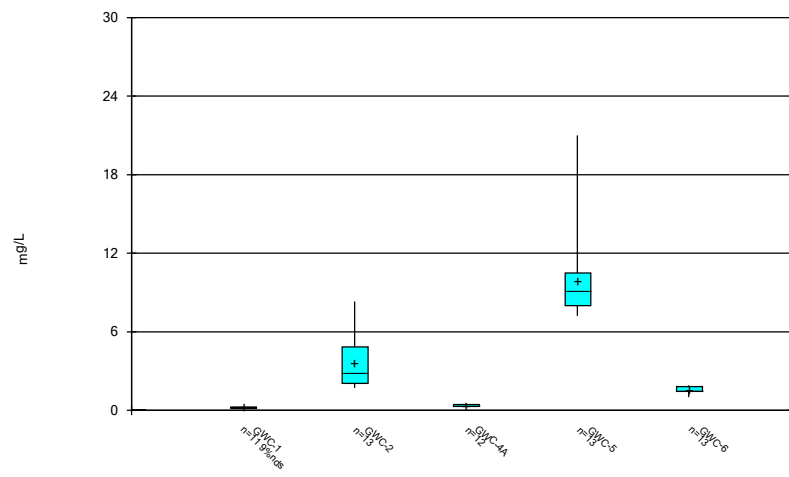
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



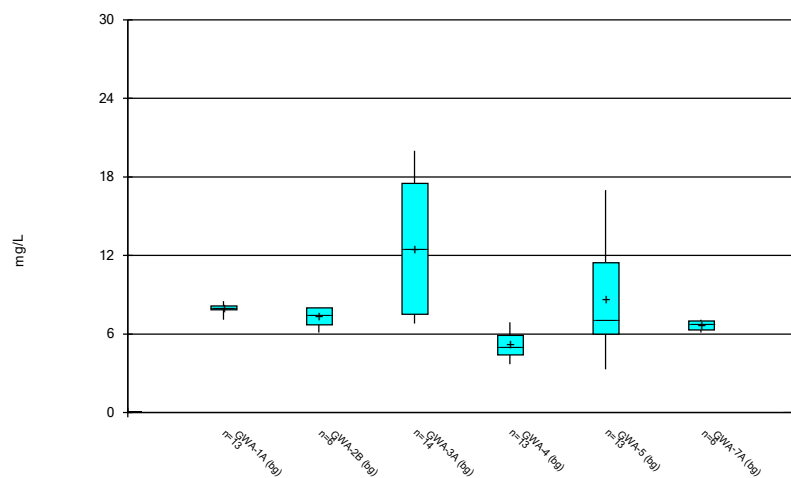
Constituent: Calcium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



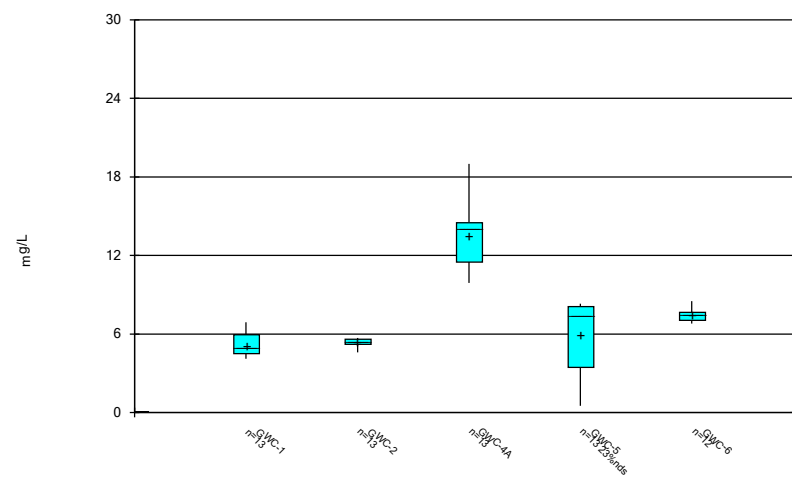
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



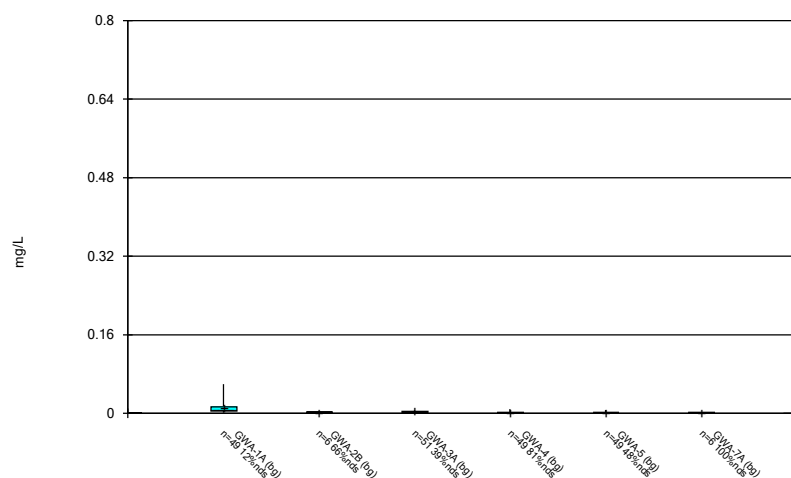
Constituent: Chloride Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



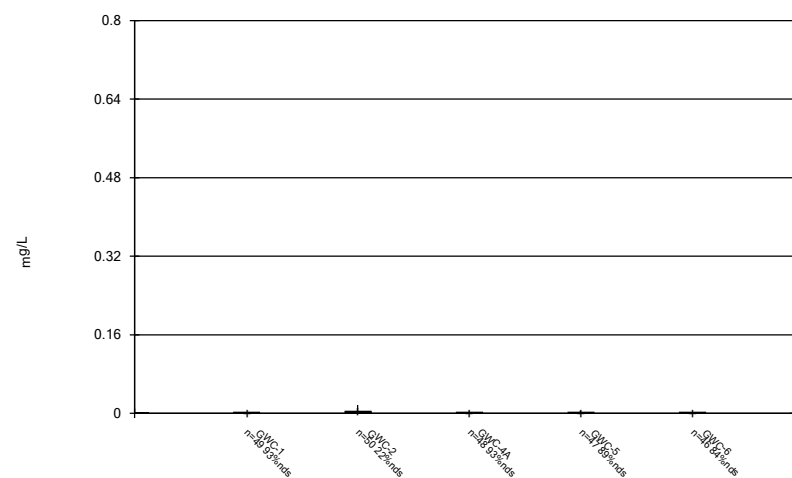
Constituent: Chloride Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



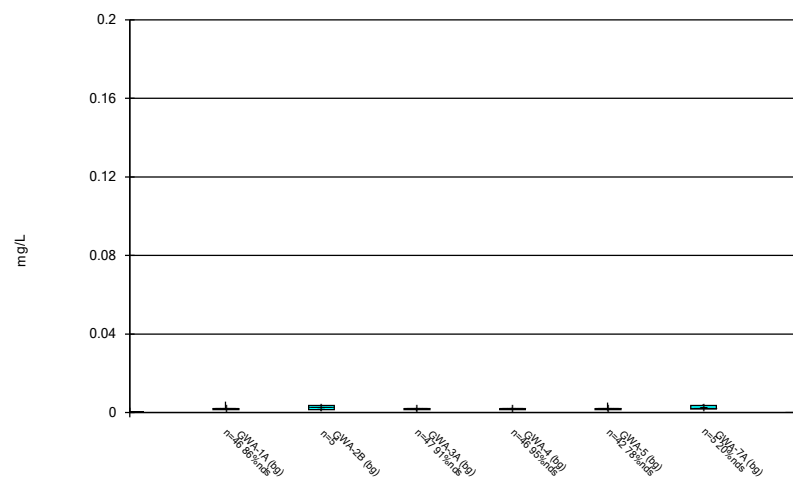
Constituent: Chromium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



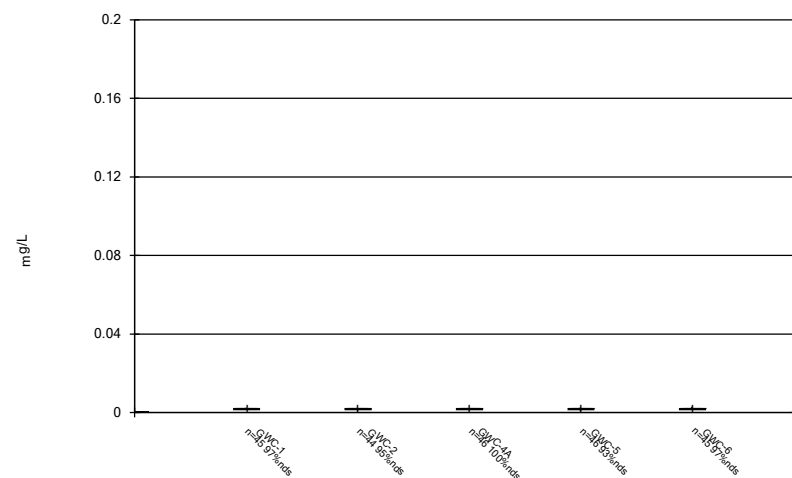
Constituent: Chromium Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



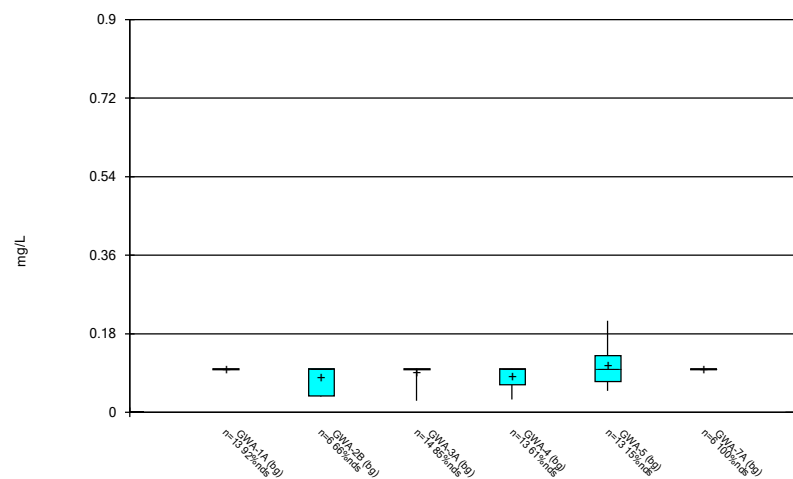
Constituent: Copper Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



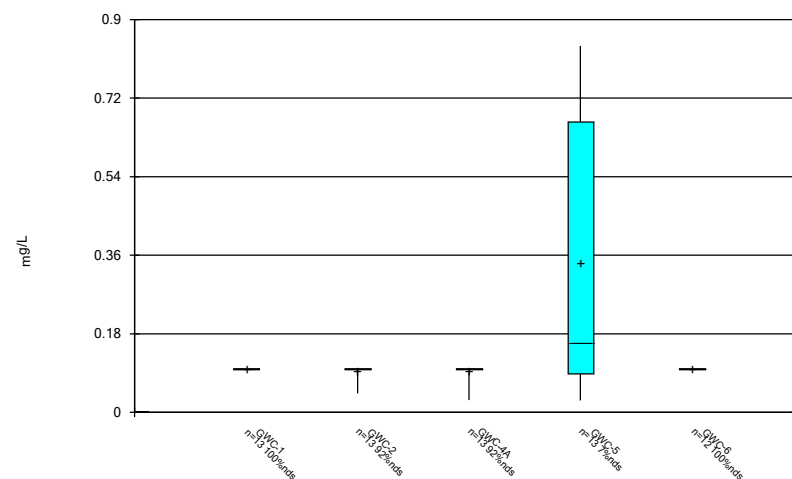
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



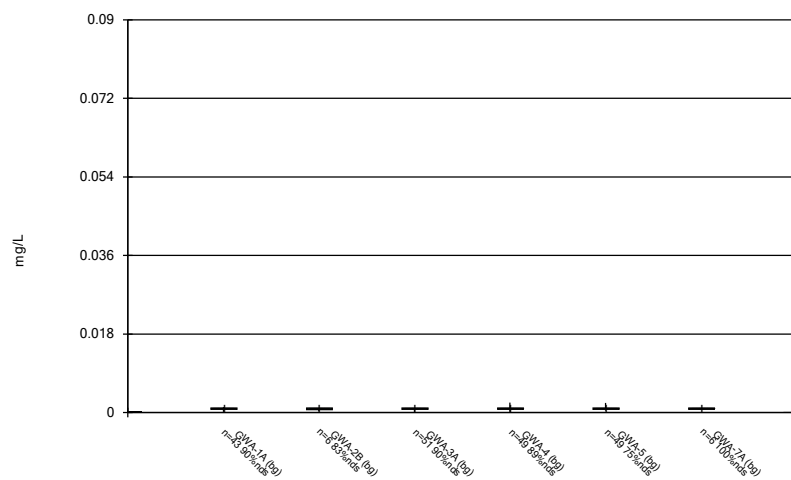
Constituent: Fluoride Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



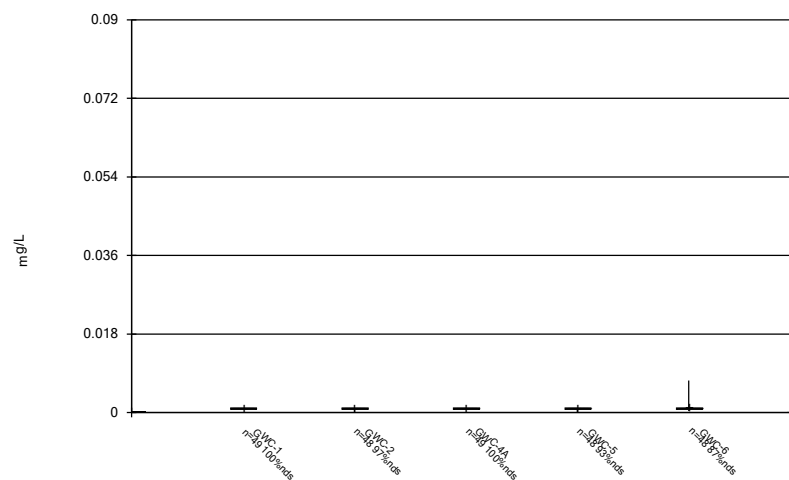
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



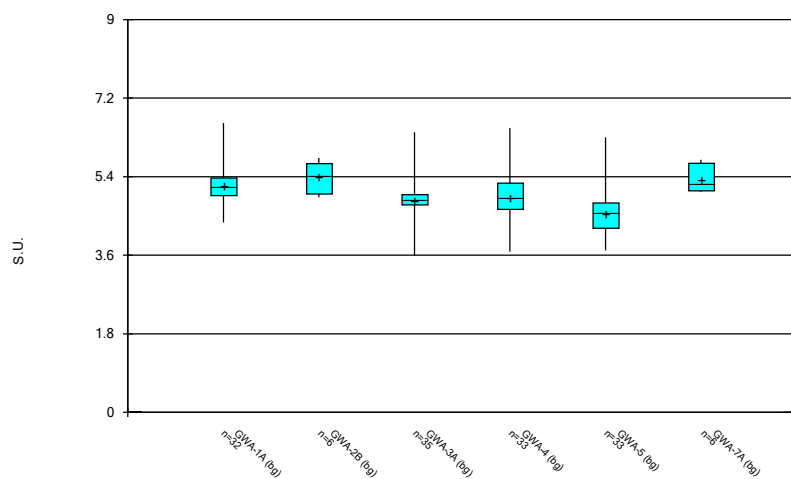
Constituent: Lead Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



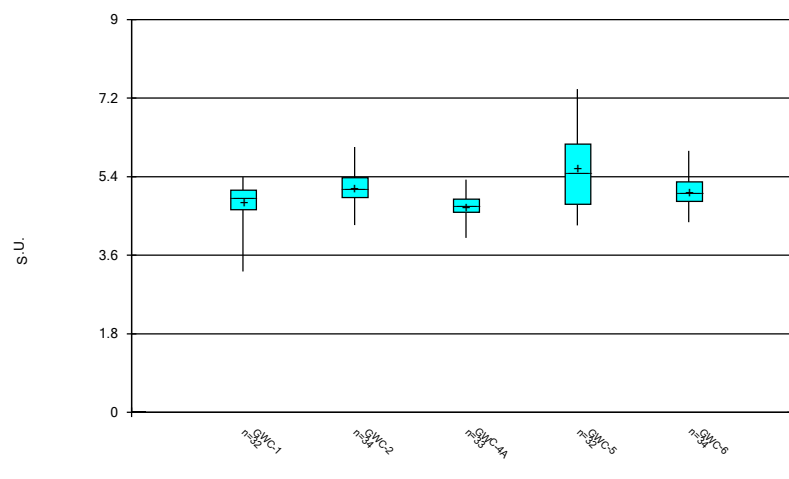
Constituent: Lead Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



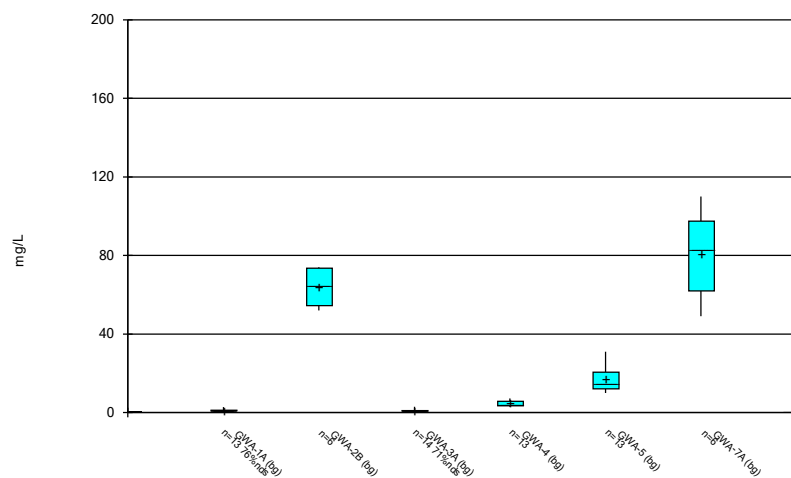
Constituent: pH Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



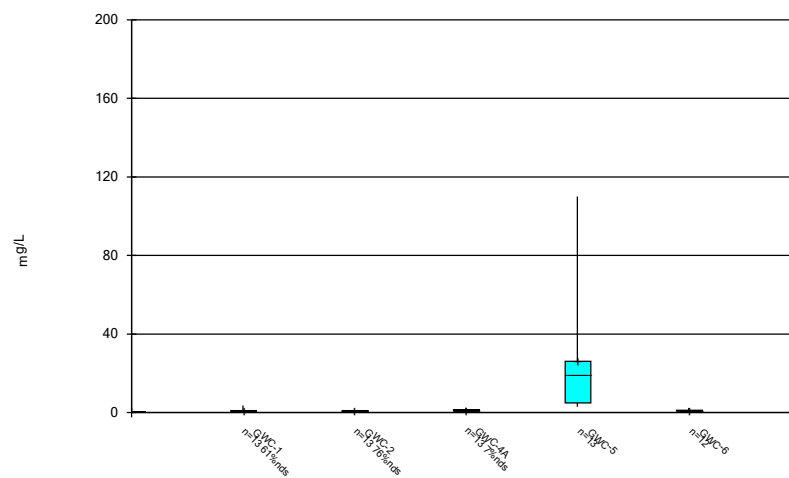
Constituent: pH Analysis Run 12/2/2020 12:46 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



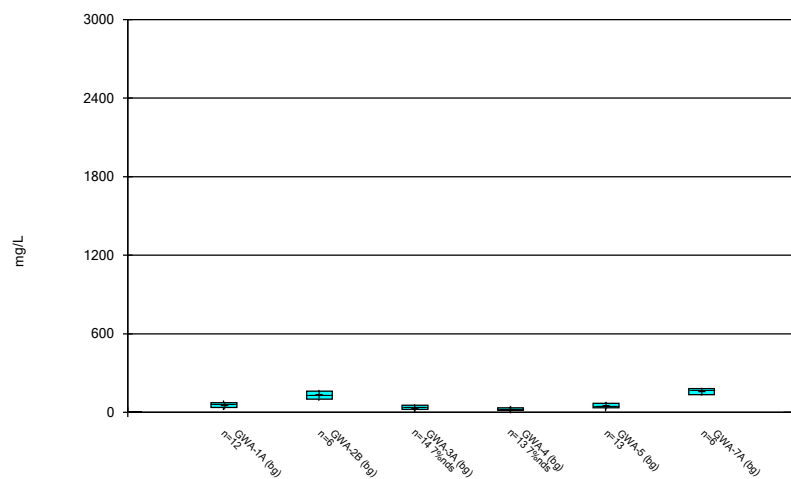
Constituent: Sulfate Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



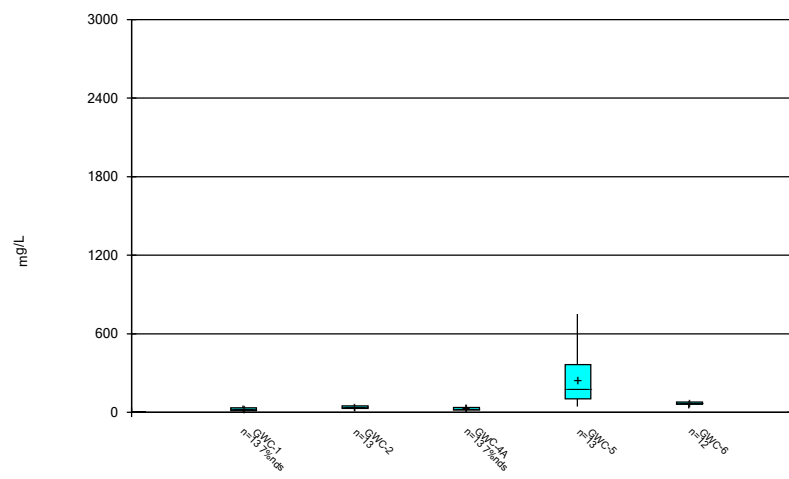
Constituent: Sulfate Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



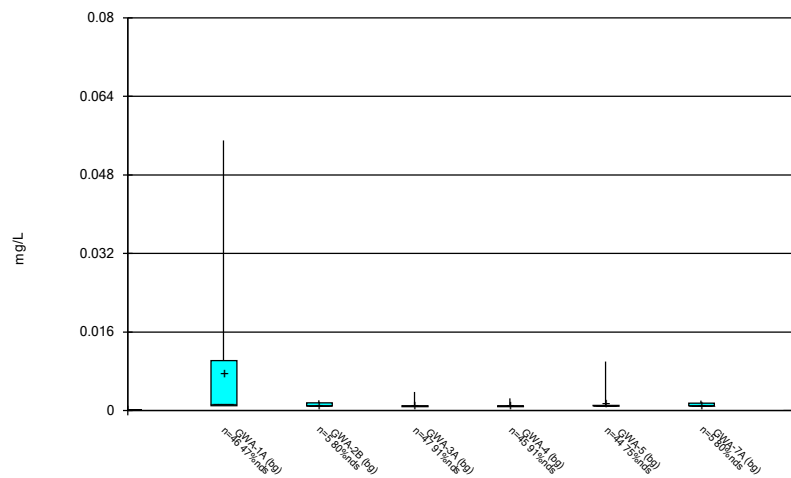
Constituent: Total Dissolved Solids Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



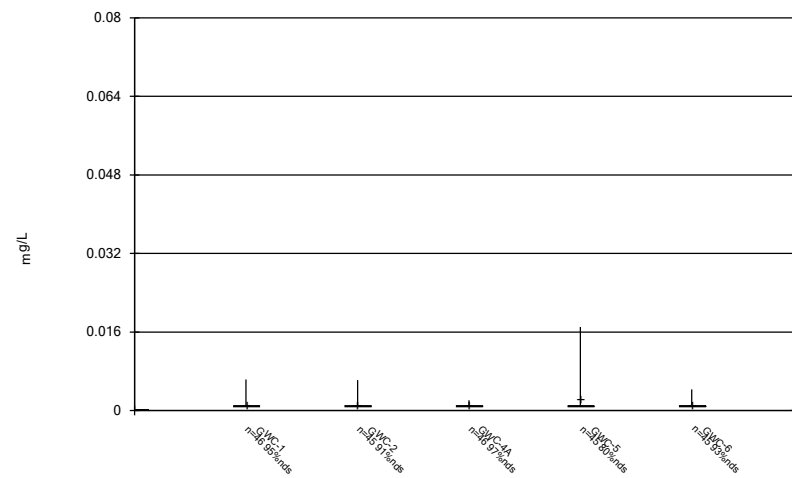
Constituent: Total Dissolved Solids Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



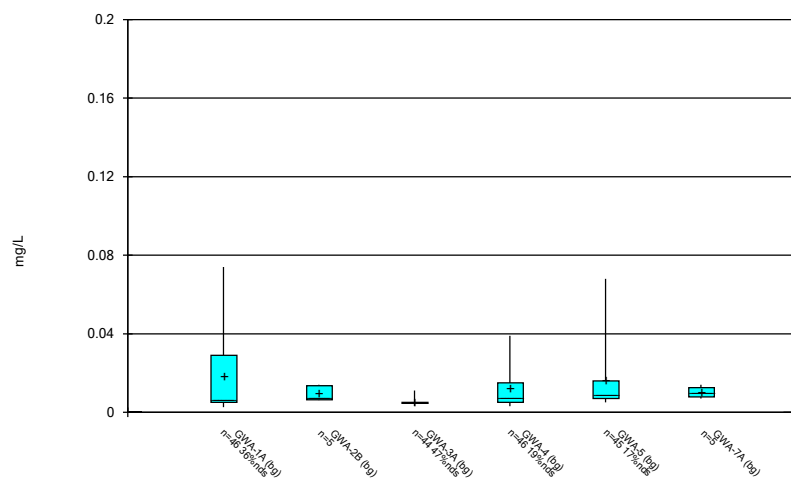
Constituent: Vanadium Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



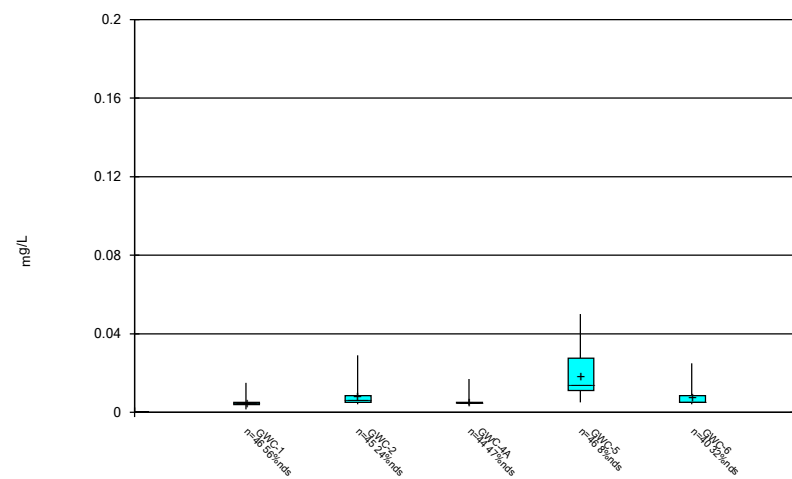
Constituent: Vanadium Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box &amp; Whiskers Plot



Constituent: Zinc Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

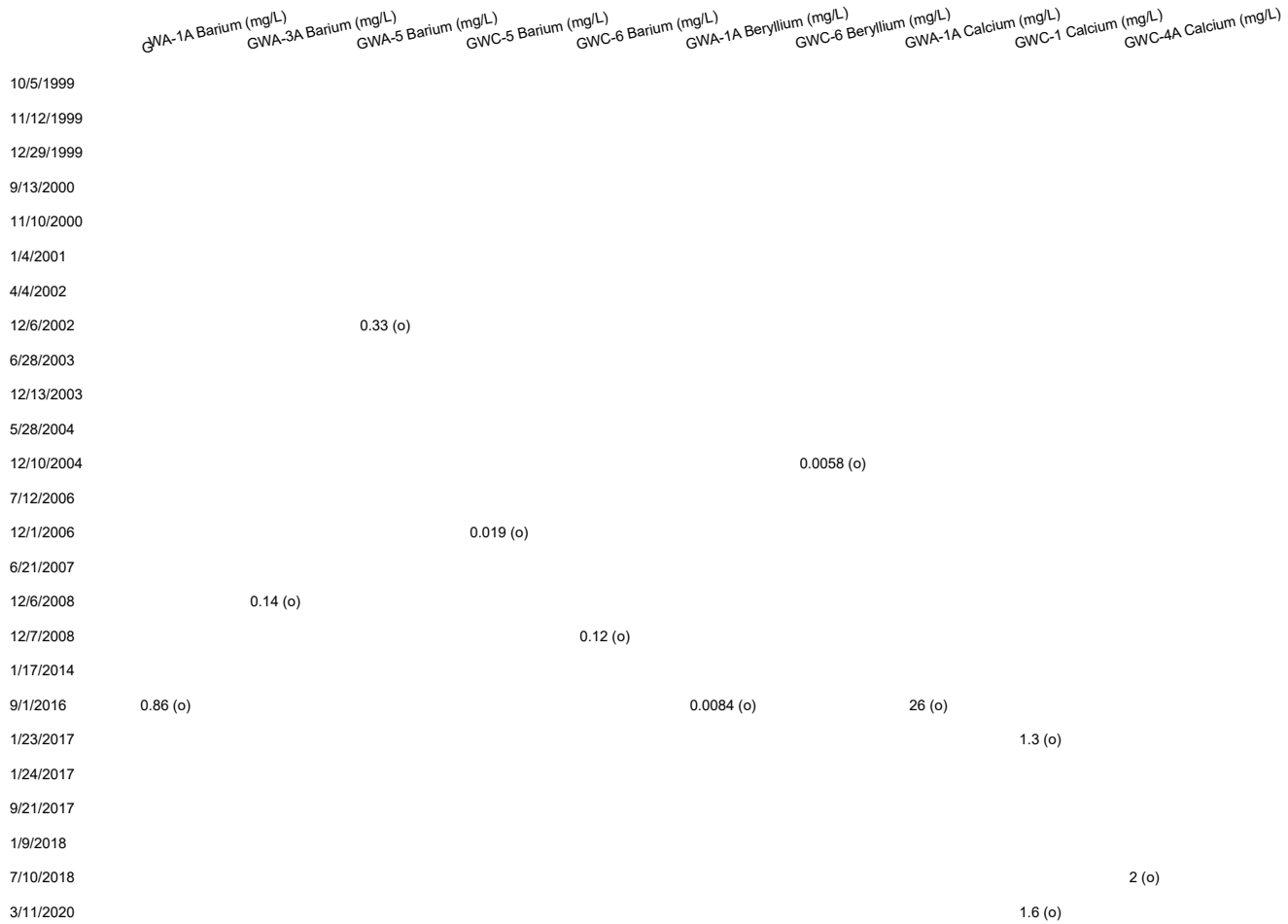
Box &amp; Whiskers Plot



Constituent: Zinc Analysis Run 12/2/2020 12:47 PM  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE C.

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 12/2/2020, 12:49 PM





| Date       | Value | Unit       |
|------------|-------|------------|
| 10/5/1999  |       |            |
| 11/12/1999 |       |            |
| 12/29/1999 |       |            |
| 9/13/2000  |       |            |
| 11/10/2000 |       |            |
| 1/4/2001   |       | 0.016 (o)  |
| 4/4/2002   |       |            |
| 12/6/2002  | 0.027 | (o)        |
| 6/28/2003  | 0.007 | (o)        |
| 12/13/2003 |       | 0.008 (o)  |
| 5/28/2004  |       | 0.0089 (o) |
| 12/10/2004 | 0.74  | (o)        |
| 7/12/2006  | 0.023 | (o)        |
| 12/1/2006  |       | 0.021 (o)  |
| 6/21/2007  |       | 0.011 (o)  |
| 12/6/2008  |       | 0.0067 (o) |
| 12/7/2008  |       | 0.0057 (o) |
| 1/17/2014  |       | 0.0046 (o) |
| 9/1/2016   | 0.12  | (o)        |
| 1/23/2017  |       | 0.0059 (o) |
| 1/24/2017  |       | 0.0069 (o) |
| 9/21/2017  |       |            |
| 1/9/2018   |       |            |
| 7/10/2018  |       |            |
| 3/11/2020  |       | 0.0047 (o) |

[illegible]

| Date       | Value  | Unit |
|------------|--------|------|
| 10/5/1999  | 0.015  | (o)  |
| 11/12/1999 | 0.023  | (o)  |
| 12/29/1999 |        |      |
| 9/13/2000  | 0.036  | (o)  |
| 11/10/2000 |        |      |
| 1/4/2001   |        |      |
| 4/4/2002   | 0.069  | (o)  |
| 12/6/2002  | 0.03   | (o)  |
| 6/28/2003  | 0.19   | (o)  |
| 12/13/2003 |        |      |
| 5/28/2004  |        |      |
| 12/10/2004 |        |      |
| 7/12/2006  |        |      |
| 12/1/2006  | 0.065  | (o)  |
| 6/21/2007  | 0.07   | (o)  |
| 12/6/2008  | 0.051  | (o)  |
| 12/7/2008  |        |      |
| 1/17/2014  |        |      |
| 9/1/2016   | 2200   | (o)  |
| 1/23/2017  |        |      |
| 1/24/2017  | 8.32   | (o)  |
| 9/21/2017  | 0.044  | (o)  |
| 1/9/2018   | 0.0072 | (o)  |
| 7/10/2018  |        |      |
| 3/11/2020  |        |      |

# Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:49 PM

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GWC-6 Zinc (mg/L)

|            |           |
|------------|-----------|
| 10/5/1999  | 0.063 (o) |
| 11/12/1999 |           |
| 12/29/1999 |           |
| 9/13/2000  | 0.061 (o) |
| 11/10/2000 | 0.061 (o) |
| 1/4/2001   | 0.05 (o)  |
| 4/4/2002   |           |
| 12/6/2002  |           |
| 6/28/2003  |           |
| 12/13/2003 |           |
| 5/28/2004  |           |
| 12/10/2004 |           |
| 7/12/2006  |           |
| 12/1/2006  |           |
| 6/21/2007  |           |
| 12/6/2008  |           |
| 12/7/2008  | 0.044 (o) |
| 1/17/2014  |           |
| 9/1/2016   |           |
| 1/23/2017  |           |
| 1/24/2017  |           |
| 9/21/2017  |           |
| 1/9/2018   |           |
| 7/10/2018  |           |
| 3/11/2020  |           |

FIGURE D.

# Intrawell Prediction Limit Summary - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg.N</u> | <u>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-3A      | 15.76             | n/a               | 9/21/2020   | 19             | Yes         | 8           | 8.963          | 2.481           | 0           | None           | No               | 0.001504     | Param Intra 1 of 2 |
| Chloride (mg/L)    | GWC-1       | 6.841             | n/a               | 9/22/2020   | 6.9            | Yes         | 8           | 4.938          | 0.6948          | 0           | None           | No               | 0.001504     | Param Intra 1 of 2 |

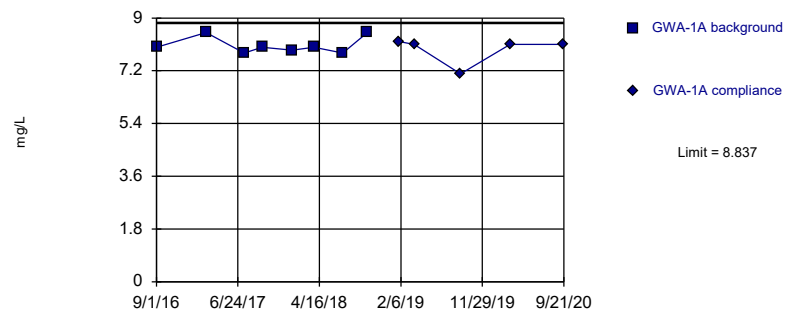
# Intrawell Prediction Limit Summary - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:06 PM

| Constituent                   | Well          | Upper Lim.   | Lower Lim. | Date             | Observ.    | Sig.       | Bg       | NBg          | Mean          | Std. Dev. | %NDs        | ND Adj.   | Transform | Alpha           | Method                    |
|-------------------------------|---------------|--------------|------------|------------------|------------|------------|----------|--------------|---------------|-----------|-------------|-----------|-----------|-----------------|---------------------------|
| Chloride (mg/L)               | GWA-1A        | 8.837        | n/a        | 9/21/2020        | 8.1        | No         | 8        | 8.063        | 0.2825        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| <b>Chloride (mg/L)</b>        | <b>GWA-3A</b> | <b>15.76</b> | <b>n/a</b> | <b>9/21/2020</b> | <b>19</b>  | <b>Yes</b> | <b>8</b> | <b>8.963</b> | <b>2.481</b>  | <b>0</b>  | <b>None</b> | <b>No</b> |           | <b>0.001504</b> | <b>Param Intra 1 of 2</b> |
| Chloride (mg/L)               | GWA-4         | 7.253        | n/a        | 9/21/2020        | 5.4        | No         | 8        | 4.788        | 0.8999        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWA-5         | 23.64        | n/a        | 9/22/2020        | 6.3        | No         | 8        | 9.788        | 5.057         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| <b>Chloride (mg/L)</b>        | <b>GWC-1</b>  | <b>6.841</b> | <b>n/a</b> | <b>9/22/2020</b> | <b>6.9</b> | <b>Yes</b> | <b>8</b> | <b>4.938</b> | <b>0.6948</b> | <b>0</b>  | <b>None</b> | <b>No</b> |           | <b>0.001504</b> | <b>Param Intra 1 of 2</b> |
| Chloride (mg/L)               | GWC-2         | 5.864        | n/a        | 9/22/2020        | 5.4        | No         | 8        | 5.45         | 0.1512        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-4A        | 19.89        | n/a        | 9/22/2020        | 11         | No         | 8        | 14.63        | 1.923         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-5         | 13.14        | n/a        | 9/22/2020        | 8.3        | No         | 8        | 4.85         | 3.027         | 37.5      | Kapla...    | No        |           | 0.001504        | Param Intra 1 of 2        |
| Chloride (mg/L)               | GWC-6         | 8.863        | n/a        | 9/22/2020        | 7.6        | No         | 7        | 7.343        | 0.5028        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-1A        | 5.995        | 4.439      | 9/21/2020        | 4.95       | No         | 27       | 2.278        | 0.08656       | 0         | None        | sqrt(x)   |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-3A        | 6.42         | 3.59       | 9/21/2020        | 4.69       | No         | 29       | n/a          | n/a           | 0         | n/a         | n/a       |           | 0.004345        | NP Intra (normality) ...  |
| pH (S.U.)                     | GWA-4         | 5.958        | 3.912      | 9/21/2020        | 4.6        | No         | 28       | 4.935        | 0.521         | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWA-5         | 5.585        | 3.442      | 9/22/2020        | 4.99       | No         | 28       | 4.513        | 0.5456        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-1         | 5.622        | 3.839      | 9/22/2020        | 4.66       | No         | 27       | 23.17        | 4.275         | 0         | None        | x^2       |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-2         | 5.97         | 4.205      | 9/22/2020        | 5.04       | No         | 29       | 5.087        | 0.4515        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-4A        | 5.261        | 4.143      | 9/22/2020        | 4.92       | No         | 27       | 4.702        | 0.2834        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-5         | 8.049        | 3.606      | 9/22/2020        | 5.87       | No         | 28       | 2.368        | 0.2389        | 0         | None        | sqrt(x)   |           | 0.000752        | Param Intra 1 of 2        |
| pH (S.U.)                     | GWC-6         | 5.825        | 4.404      | 9/22/2020        | 4.73       | No         | 28       | 5.114        | 0.3619        | 0         | None        | No        |           | 0.000752        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWA-1A        | 2.7          | n/a        | 9/21/2020        | 1ND        | No         | 8        | n/a          | n/a           | 87.5      | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWA-3A        | 1            | n/a        | 9/21/2020        | 1ND        | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWA-4         | 8.482        | n/a        | 9/21/2020        | 5          | No         | 8        | 4.513        | 1.449         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWA-5         | 37.31        | n/a        | 9/22/2020        | 12         | No         | 8        | 18.88        | 6.728         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-1         | 1            | n/a        | 9/22/2020        | 0.63J      | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWC-2         | 1            | n/a        | 9/22/2020        | 1ND        | No         | 8        | n/a          | n/a           | 100       | n/a         | n/a       |           | 0.02144         | NP Intra (NDs) 1 of 2     |
| Sulfate (mg/L)                | GWC-4A        | 2.25         | n/a        | 9/22/2020        | 0.76J      | No         | 8        | 1.096        | 0.421         | 12.5      | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-5         | 150.4        | n/a        | 9/22/2020        | 4.3        | No         | 8        | 5.799        | 2.359         | 0         | None        | sqrt(x)   |           | 0.001504        | Param Intra 1 of 2        |
| Sulfate (mg/L)                | GWC-6         | 1.435        | n/a        | 9/22/2020        | 0.59J      | No         | 7        | 0.92         | 0.1704        | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-1A        | 133.9        | n/a        | 9/21/2020        | 31         | No         | 7        | 52.29        | 26.99         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-3A        | 80.43        | n/a        | 9/21/2020        | 61         | No         | 8        | 32.75        | 17.4          | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-4         | 51.76        | n/a        | 9/21/2020        | 31         | No         | 8        | 20.81        | 11.29         | 12.5      | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWA-5         | 117.1        | n/a        | 9/22/2020        | 53         | No         | 8        | 48.5         | 25.04         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-1         | 69           | n/a        | 9/22/2020        | 5ND        | No         | 8        | 24           | 16.42         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-2         | 77.05        | n/a        | 9/22/2020        | 30         | No         | 8        | 38.75        | 13.98         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-4A        | 68.34        | n/a        | 9/22/2020        | 36         | No         | 8        | 26.25        | 15.36         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-5         | 620.5        | n/a        | 9/22/2020        | 440        | No         | 8        | 204.8        | 151.7         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |
| Total Dissolved Solids (mg/L) | GWC-6         | 94.76        | n/a        | 9/22/2020        | 30         | No         | 7        | 66.86        | 9.227         | 0         | None        | No        |           | 0.001504        | Param Intra 1 of 2        |

Within Limit

### Prediction Limit Intrawell Parametric

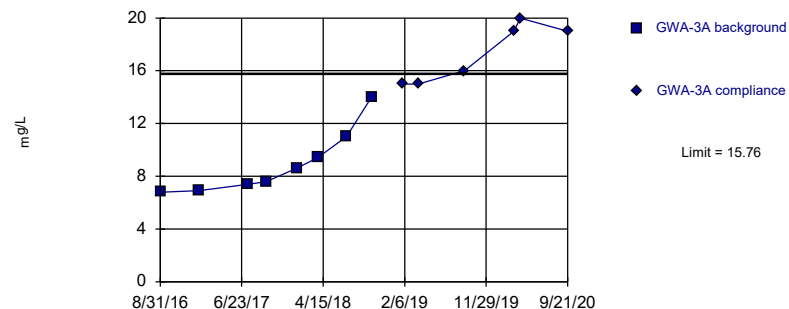


Background Data Summary: Mean=8.063, Std. Dev.=0.2825, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7856, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Exceeds Limit

### Prediction Limit Intrawell Parametric

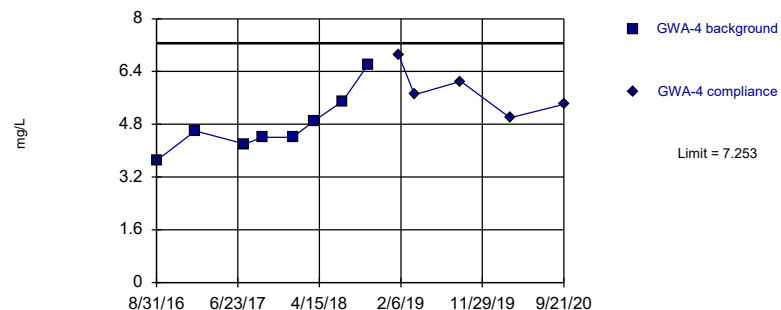


Background Data Summary: Mean=8.963, Std. Dev.=2.481, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8523, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

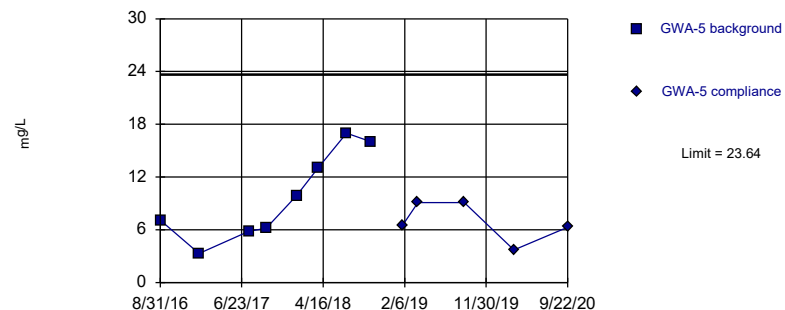


Background Data Summary: Mean=4.788, Std. Dev.=0.8999, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9048, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary: Mean=9.788, Std. Dev.=5.057, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9239, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-1A | GWA-1A |
|-----------|--------|--------|
| 9/1/2016  | 8      |        |
| 2/28/2017 | 8.5    |        |
| 7/17/2017 | 7.8    |        |
| 9/20/2017 | 8      |        |
| 1/8/2018  | 7.9    |        |
| 3/27/2018 | 8      |        |
| 7/10/2018 | 7.8    |        |
| 10/8/2018 | 8.5    |        |
| 1/30/2019 |        | 8.2    |
| 3/27/2019 |        | 8.1    |
| 9/11/2019 |        | 7.1    |
| 3/10/2020 |        | 8.1    |
| 9/21/2020 |        | 8.1    |

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-3A | GWA-3A |
|-----------|--------|--------|
| 8/31/2016 | 6.8    |        |
| 1/19/2017 | 6.9    |        |
| 7/18/2017 | 7.4    |        |
| 9/20/2017 | 7.6    |        |
| 1/9/2018  | 8.6    |        |
| 3/27/2018 | 9.4    |        |
| 7/10/2018 | 11     |        |
| 10/9/2018 | 14     |        |
| 1/30/2019 |        | 15     |
| 3/28/2019 |        | 15     |
| 9/12/2019 |        | 16     |
| 3/10/2020 |        | 19     |
| 4/2/2020  |        | 20     |
| 9/21/2020 |        | 19     |

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-4 | GWA-4 |
|-----------|-------|-------|
| 8/31/2016 | 3.7   |       |
| 1/19/2017 | 4.6   |       |
| 7/18/2017 | 4.2   |       |
| 9/21/2017 | 4.4   |       |
| 1/9/2018  | 4.4   |       |
| 3/27/2018 | 4.9   |       |
| 7/10/2018 | 5.5   |       |
| 10/8/2018 | 6.6   |       |
| 1/30/2019 |       | 6.9   |
| 3/28/2019 |       | 5.7   |
| 9/12/2019 |       | 6.1   |
| 3/10/2020 |       | 5     |
| 9/21/2020 |       | 5.4   |

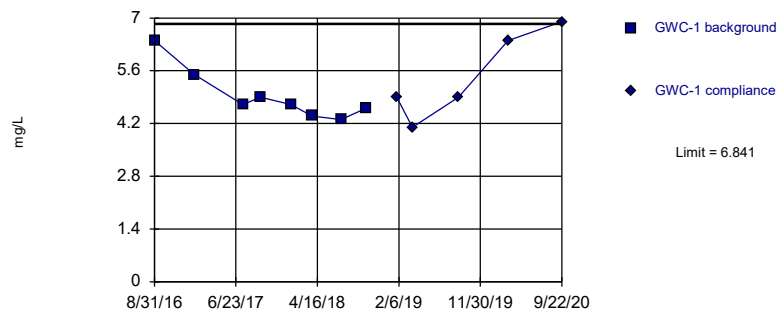
# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-5 | GWA-5 |
|-----------|-------|-------|
| 8/31/2016 | 7.1   |       |
| 1/19/2017 | 3.3   |       |
| 7/19/2017 | 5.8   |       |
| 9/21/2017 | 6.2   |       |
| 1/9/2018  | 9.9   |       |
| 3/27/2018 | 13    |       |
| 7/10/2018 | 17    |       |
| 10/8/2018 | 16    |       |
| 1/30/2019 |       | 6.5   |
| 3/27/2019 |       | 9.1   |
| 9/12/2019 |       | 9.1   |
| 3/10/2020 |       | 3.7   |
| 9/22/2020 |       | 6.3   |

Exceeds Limit

### Prediction Limit Intrawell Parametric

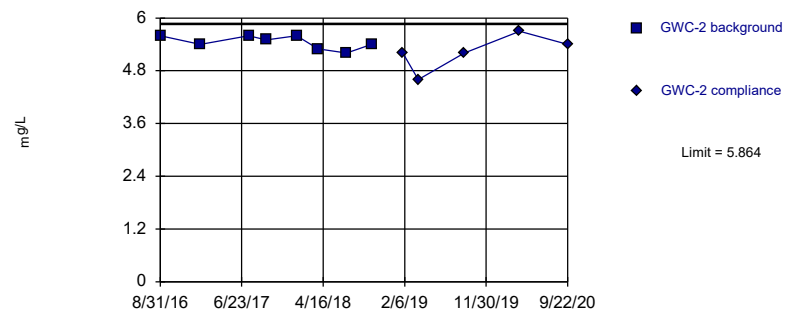


Background Data Summary: Mean=4.938, Std. Dev.=0.6948, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8267, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

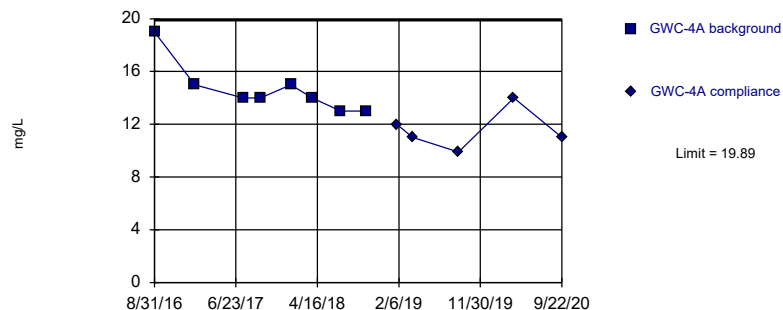


Background Data Summary: Mean=5.45, Std. Dev.=0.1512, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8905, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

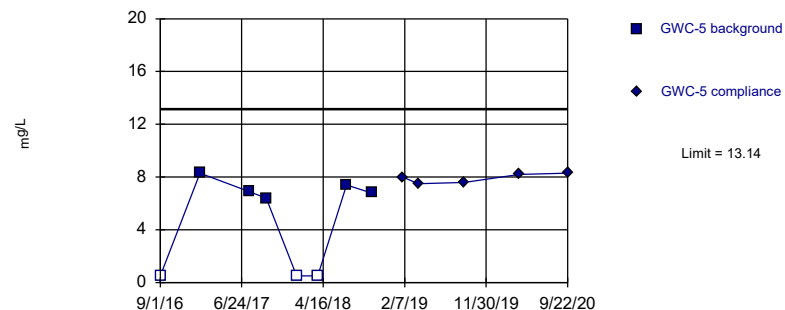


Background Data Summary: Mean=14.63, Std. Dev.=1.923, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7613, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=4.85, Std. Dev.=3.027, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7581, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-1 | GWC-1 |
|-----------|-------|-------|
| 8/31/2016 | 6.4   |       |
| 1/23/2017 | 5.5   |       |
| 7/19/2017 | 4.7   |       |
| 9/21/2017 | 4.9   |       |
| 1/9/2018  | 4.7   |       |
| 3/28/2018 | 4.4   |       |
| 7/11/2018 | 4.3   |       |
| 10/9/2018 | 4.6   |       |
| 1/30/2019 |       | 4.9   |
| 3/28/2019 |       | 4.1   |
| 9/12/2019 |       | 4.9   |
| 3/11/2020 |       | 6.4   |
| 9/22/2020 |       | 6.9   |

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-2 | GWC-2 |
|-----------|-------|-------|
| 8/31/2016 | 5.6   |       |
| 1/24/2017 | 5.4   |       |
| 7/19/2017 | 5.6   |       |
| 9/21/2017 | 5.5   |       |
| 1/9/2018  | 5.6   |       |
| 3/29/2018 | 5.3   |       |
| 7/10/2018 | 5.2   |       |
| 10/9/2018 | 5.4   |       |
| 1/31/2019 |       | 5.2   |
| 3/28/2019 |       | 4.6   |
| 9/12/2019 |       | 5.2   |
| 3/31/2020 |       | 5.7   |
| 9/22/2020 |       | 5.4   |

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

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|           | GWC-4A | GWC-4A |
|-----------|--------|--------|
| 8/31/2016 | 19     |        |
| 1/25/2017 | 15     |        |
| 7/20/2017 | 14     |        |
| 9/21/2017 | 14     |        |
| 1/9/2018  | 15     |        |
| 3/28/2018 | 14     |        |
| 7/10/2018 | 13     |        |
| 10/9/2018 | 13     |        |
| 1/30/2019 |        | 12     |
| 3/28/2019 |        | 11     |
| 9/12/2019 |        | 9.9    |
| 3/31/2020 |        | 14     |
| 9/22/2020 |        | 11     |



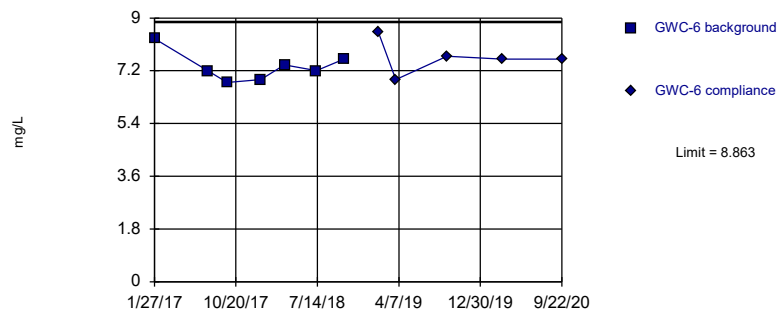
# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-5 | GWC-5 |
|-----------|-------|-------|
| 9/1/2016  | <1    |       |
| 1/24/2017 | 8.3   |       |
| 7/20/2017 | 6.9   |       |
| 9/21/2017 | 6.4   |       |
| 1/10/2018 | <1    |       |
| 3/28/2018 | <1    |       |
| 7/11/2018 | 7.4   |       |
| 10/9/2018 | 6.8   |       |
| 1/31/2019 |       | 8     |
| 3/28/2019 |       | 7.5   |
| 9/12/2019 |       | 7.6   |
| 3/31/2020 |       | 8.2   |
| 9/22/2020 |       | 8.3   |

Within Limit

### Prediction Limit Intrawell Parametric

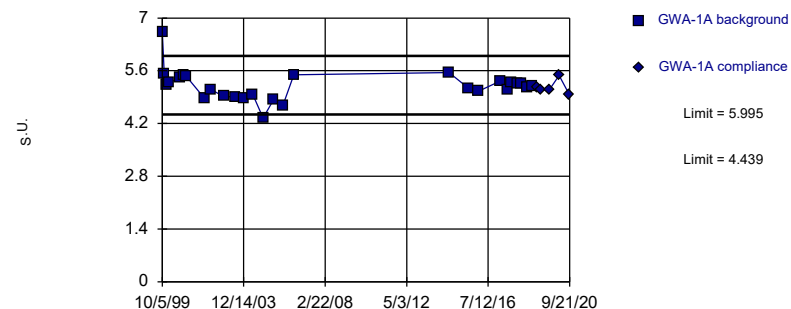


Background Data Summary: Mean=7.343, Std. Dev.=0.5028, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9102, critical = 0.73. Kappa = 3.024 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric

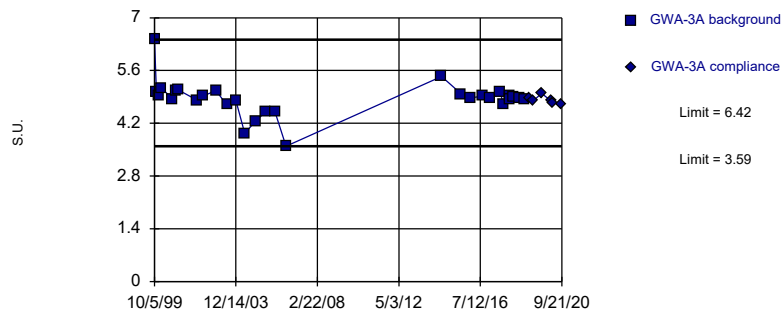


Background Data Summary (based on square root transformation): Mean=2.278, Std. Dev.=0.08656, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8991, critical = 0.894. Kappa = 1.972 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Non-parametric

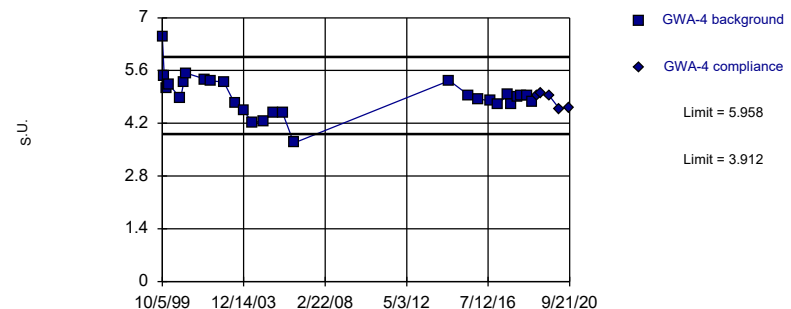


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 29 background values. Well-constituent pair annual alpha = 0.00868. Individual comparison alpha = 0.004345 (1 of 2).

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric



Background Data Summary: Mean=4.935, Std. Dev.=0.521, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.896. Kappa = 1.964 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Chloride (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-6 | GWC-6 |
|-----------|-------|-------|
| 1/27/2017 | 8.3   |       |
| 7/20/2017 | 7.2   |       |
| 9/22/2017 | 6.8   |       |
| 1/10/2018 | 6.9   |       |
| 3/29/2018 | 7.4   |       |
| 7/11/2018 | 7.2   |       |
| 10/9/2018 | 7.6   |       |
| 1/31/2019 |       | 8.5   |
| 3/28/2019 |       | 6.9   |
| 9/12/2019 |       | 7.7   |
| 3/11/2020 |       | 7.6   |
| 9/22/2020 |       | 7.6   |

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/17/2020 2:06 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A    | GWA-1A |
|------------|-----------|--------|
| 10/5/1999  | 6.63      |        |
| 11/12/1999 | 5.51      |        |
| 12/29/1999 | 5.23      |        |
| 2/17/2000  | 5.29      |        |
| 9/13/2000  | 5.41      |        |
| 11/10/2000 | 5.47      |        |
| 1/4/2001   | 5.44      |        |
| 12/11/2001 | 4.86      |        |
| 4/4/2002   | 5.1       |        |
| 12/6/2002  | 4.917 (D) |        |
| 6/28/2003  | 4.91      |        |
| 12/13/2003 | 4.87      |        |
| 5/28/2004  | 4.98      |        |
| 12/10/2004 | 4.35      |        |
| 6/24/2005  | 4.82      |        |
| 12/13/2005 | 4.66      |        |
| 7/12/2006  | 5.49      |        |
| 7/11/2014  | 5.55      |        |
| 7/15/2015  | 5.13      |        |
| 1/16/2016  | 5.06      |        |
| 2/28/2017  | 5.33      |        |
| 7/17/2017  | 5.09      |        |
| 9/20/2017  | 5.29      |        |
| 1/8/2018   | 5.26      |        |
| 3/27/2018  | 5.27      |        |
| 7/10/2018  | 5.17      |        |
| 10/8/2018  | 5.18      |        |
| 1/30/2019  |           | 5.17   |
| 3/27/2019  |           | 5.09   |
| 9/11/2019  |           | 5.1    |
| 3/10/2020  |           | 5.48   |
| 9/21/2020  |           | 4.95   |

# Prediction Limit

Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWA-3A   | GWA-3A |
|------------|----------|--------|
| 10/5/1999  | 6.42     |        |
| 11/12/1999 | 5.03     |        |
| 12/29/1999 | 4.92     |        |
| 2/17/2000  | 5.13     |        |
| 9/13/2000  | 4.85     |        |
| 11/10/2000 | 5.05     |        |
| 1/4/2001   | 5.08     |        |
| 12/11/2001 | 4.81     |        |
| 4/4/2002   | 4.92     |        |
| 12/6/2002  | 5.07 (D) |        |
| 6/28/2003  | 4.69     |        |
| 12/13/2003 | 4.81     |        |
| 5/28/2004  | 3.93     |        |
| 12/10/2004 | 4.25     |        |
| 6/24/2005  | 4.5      |        |
| 12/13/2005 | 4.52     |        |
| 7/12/2006  | 3.59     |        |
| 7/12/2014  | 5.44     |        |
| 7/15/2015  | 4.98     |        |
| 1/16/2016  | 4.87     |        |
| 8/31/2016  | 4.92     |        |
| 1/19/2017  | 4.86     |        |
| 7/18/2017  | 5.02     |        |
| 9/20/2017  | 4.72     |        |
| 1/8/2018   | 4.92     |        |
| 1/9/2018   | 4.83     |        |
| 3/27/2018  | 4.91     |        |
| 7/10/2018  | 4.87     |        |
| 10/8/2018  | 4.84     |        |
| 1/30/2019  |          | 4.88   |
| 3/28/2019  |          | 4.8    |
| 9/12/2019  |          | 4.99   |
| 3/10/2020  |          | 4.79   |
| 4/2/2020   |          | 4.75   |
| 9/21/2020  |          | 4.69   |

# Prediction Limit

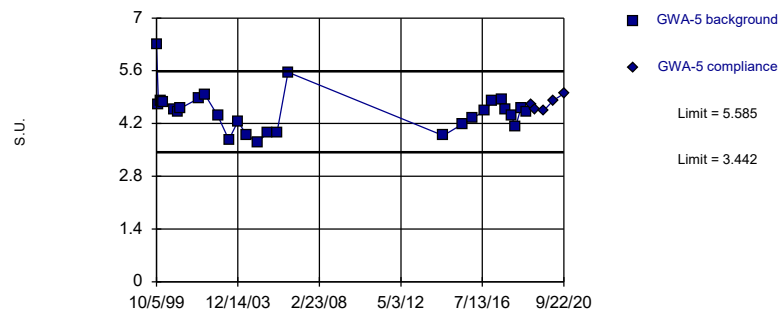
Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWA-4   | GWA-4 |
|------------|---------|-------|
| 10/5/1999  | 6.51    |       |
| 11/12/1999 | 5.46    |       |
| 12/29/1999 | 5.13    |       |
| 2/17/2000  | 5.22    |       |
| 9/13/2000  | 4.86    |       |
| 11/10/2000 | 5.29    |       |
| 1/4/2001   | 5.53    |       |
| 12/11/2001 | 5.37    |       |
| 4/4/2002   | 5.32    |       |
| 12/6/2002  | 5.3 (D) |       |
| 6/28/2003  | 4.73    |       |
| 12/13/2003 | 4.53    |       |
| 5/28/2004  | 4.22    |       |
| 12/10/2004 | 4.26    |       |
| 6/24/2005  | 4.47    |       |
| 12/13/2005 | 4.47    |       |
| 7/12/2006  | 3.68    |       |
| 7/12/2014  | 5.33    |       |
| 7/15/2015  | 4.94    |       |
| 1/16/2016  | 4.85    |       |
| 8/31/2016  | 4.79    |       |
| 1/19/2017  | 4.72    |       |
| 7/18/2017  | 4.96    |       |
| 9/21/2017  | 4.7     |       |
| 1/9/2018   | 4.91    |       |
| 3/27/2018  | 4.92    |       |
| 7/10/2018  | 4.94    |       |
| 10/8/2018  | 4.76    |       |
| 1/30/2019  |         | 4.94  |
| 3/28/2019  |         | 4.99  |
| 9/12/2019  |         | 4.92  |
| 3/10/2020  |         | 4.59  |
| 9/21/2020  |         | 4.6   |

Within Limits

### Prediction Limit Intrawell Parametric

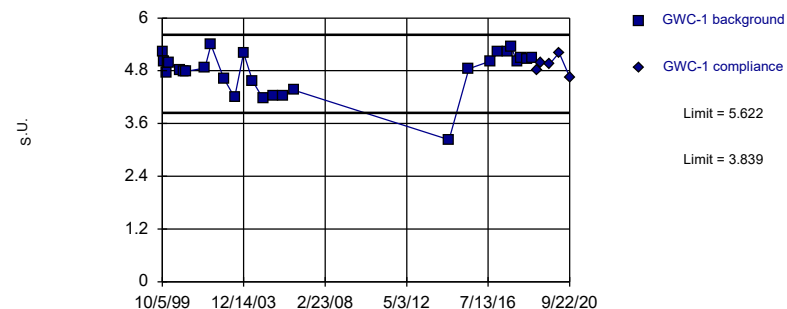


Background Data Summary: Mean=4.513, Std. Dev.=0.5456, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9, critical = 0.896. Kappa = 1.964 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric

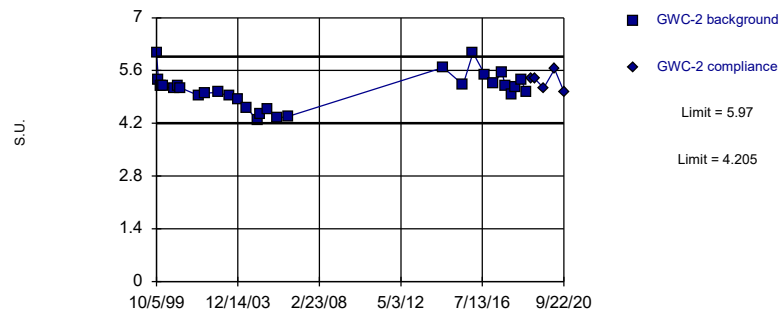


Background Data Summary (based on square transformation): Mean=23.17, Std. Dev.=4.275, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9154, critical = 0.894. Kappa = 1.972 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric

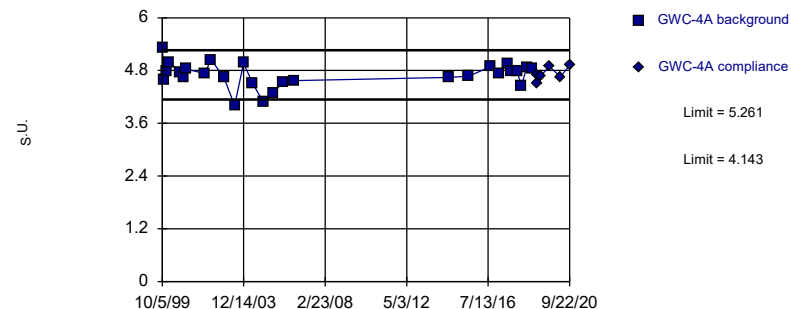


Background Data Summary: Mean=5.087, Std. Dev.=0.4515, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9507, critical = 0.898. Kappa = 1.955 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric



Background Data Summary: Mean=4.702, Std. Dev.=0.2834, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.894. Kappa = 1.972 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal All

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWA-5   | GWA-5 |
|------------|---------|-------|
| 10/5/1999  | 6.3     |       |
| 11/12/1999 | 4.72    |       |
| 12/29/1999 | 4.8     |       |
| 2/17/2000  | 4.78    |       |
| 9/13/2000  | 4.58    |       |
| 11/10/2000 | 4.5     |       |
| 1/4/2001   | 4.61    |       |
| 12/11/2001 | 4.87    |       |
| 4/4/2002   | 4.96    |       |
| 12/6/2002  | 4.4 (D) |       |
| 6/28/2003  | 3.77    |       |
| 12/13/2003 | 4.25    |       |
| 5/28/2004  | 3.9     |       |
| 12/10/2004 | 3.71    |       |
| 6/24/2005  | 3.94    |       |
| 12/13/2005 | 3.94    |       |
| 7/12/2006  | 5.56    |       |
| 7/12/2014  | 3.88    |       |
| 7/15/2015  | 4.19    |       |
| 1/16/2016  | 4.35    |       |
| 8/31/2016  | 4.53    |       |
| 1/19/2017  | 4.79    |       |
| 7/19/2017  | 4.83    |       |
| 9/21/2017  | 4.57    |       |
| 1/9/2018   | 4.4     |       |
| 3/27/2018  | 4.11    |       |
| 7/10/2018  | 4.62    |       |
| 10/8/2018  | 4.51    |       |
| 1/30/2019  |         | 4.72  |
| 3/27/2019  |         | 4.56  |
| 9/12/2019  |         | 4.54  |
| 3/10/2020  |         | 4.81  |
| 9/22/2020  |         | 4.99  |



# Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/17/2020 2:06 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1 | GWC-1 |
|------------|-------|-------|
| 10/5/1999  | 5.23  |       |
| 11/12/1999 | 5.02  |       |
| 12/29/1999 | 4.75  |       |
| 2/17/2000  | 4.99  |       |
| 9/13/2000  | 4.81  |       |
| 11/10/2000 | 4.79  |       |
| 1/4/2001   | 4.79  |       |
| 12/11/2001 | 4.86  |       |
| 4/4/2002   | 5.39  |       |
| 12/6/2002  | 4.63  |       |
| 6/28/2003  | 4.19  |       |
| 12/13/2003 | 5.2   |       |
| 5/28/2004  | 4.57  |       |
| 12/10/2004 | 4.16  |       |
| 6/24/2005  | 4.23  |       |
| 12/13/2005 | 4.24  |       |
| 7/12/2006  | 4.36  |       |
| 7/12/2014  | 3.23  |       |
| 7/15/2015  | 4.85  |       |
| 8/31/2016  | 5.02  |       |
| 1/23/2017  | 5.22  |       |
| 7/19/2017  | 5.23  |       |
| 9/21/2017  | 5.34  |       |
| 1/9/2018   | 5     |       |
| 3/28/2018  | 5.08  |       |
| 7/11/2018  | 5.07  |       |
| 10/9/2018  | 5.1   |       |
| 1/30/2019  |       | 4.81  |
| 3/28/2019  |       | 4.99  |
| 9/12/2019  |       | 4.95  |
| 3/11/2020  |       | 5.21  |
| 9/22/2020  |       | 4.66  |

# Prediction Limit

Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal All

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWC-2 | GWC-2 |
|------------|-------|-------|
| 10/5/1999  | 6.08  |       |
| 11/12/1999 | 5.35  |       |
| 12/29/1999 | 5.19  |       |
| 2/17/2000  | 5.18  |       |
| 9/13/2000  | 5.13  |       |
| 11/10/2000 | 5.2   |       |
| 1/4/2001   | 5.14  |       |
| 12/11/2001 | 4.93  |       |
| 4/4/2002   | 5     |       |
| 12/6/2002  | 5.02  |       |
| 6/28/2003  | 4.92  |       |
| 12/13/2003 | 4.82  |       |
| 5/28/2004  | 4.6   |       |
| 12/10/2004 | 4.29  |       |
| 2/5/2005   | 4.43  |       |
| 6/24/2005  | 4.56  |       |
| 12/13/2005 | 4.34  |       |
| 7/12/2006  | 4.38  |       |
| 7/12/2014  | 5.68  |       |
| 7/15/2015  | 5.22  |       |
| 1/17/2016  | 6.07  |       |
| 8/31/2016  | 5.49  |       |
| 1/24/2017  | 5.25  |       |
| 7/19/2017  | 5.54  |       |
| 9/21/2017  | 5.19  |       |
| 1/9/2018   | 4.97  |       |
| 3/29/2018  | 5.15  |       |
| 7/10/2018  | 5.37  |       |
| 10/9/2018  | 5.04  |       |
| 1/31/2019  |       | 5.38  |
| 3/28/2019  |       | 5.38  |
| 9/12/2019  |       | 5.14  |
| 3/31/2020  |       | 5.64  |
| 9/22/2020  |       | 5.04  |

# Prediction Limit

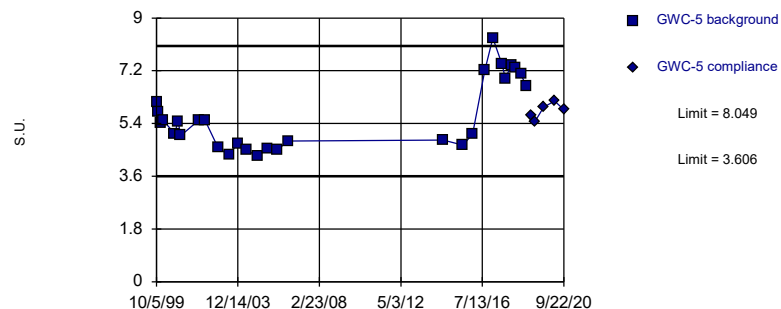
Constituent: pH (S.U.) Analysis Run 11/17/2020 2:06 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A   | GWC-4A |
|------------|----------|--------|
| 10/5/1999  | 5.33     |        |
| 11/12/1999 | 4.6      |        |
| 12/29/1999 | 4.8      |        |
| 2/17/2000  | 4.98     |        |
| 9/13/2000  | 4.75     |        |
| 11/10/2000 | 4.65     |        |
| 1/4/2001   | 4.83     |        |
| 12/11/2001 | 4.73     |        |
| 4/4/2002   | 5.05     |        |
| 12/6/2002  | 4.65 (D) |        |
| 6/28/2003  | 4        |        |
| 12/13/2003 | 4.97     |        |
| 5/28/2004  | 4.51     |        |
| 12/10/2004 | 4.09     |        |
| 6/24/2005  | 4.27     |        |
| 12/13/2005 | 4.54     |        |
| 7/12/2006  | 4.57     |        |
| 7/11/2014  | 4.64     |        |
| 7/15/2015  | 4.67     |        |
| 8/31/2016  | 4.89     |        |
| 1/25/2017  | 4.73     |        |
| 7/20/2017  | 4.96     |        |
| 9/21/2017  | 4.78     |        |
| 1/9/2018   | 4.79     |        |
| 3/28/2018  | 4.44     |        |
| 7/10/2018  | 4.88     |        |
| 10/9/2018  | 4.85     |        |
| 1/29/2019  |          | 4.7    |
| 1/30/2019  |          | 4.52   |
| 3/28/2019  |          | 4.68   |
| 9/12/2019  |          | 4.89   |
| 3/31/2020  |          | 4.66   |
| 9/22/2020  |          | 4.92   |

Within Limits

### Prediction Limit Intrawell Parametric

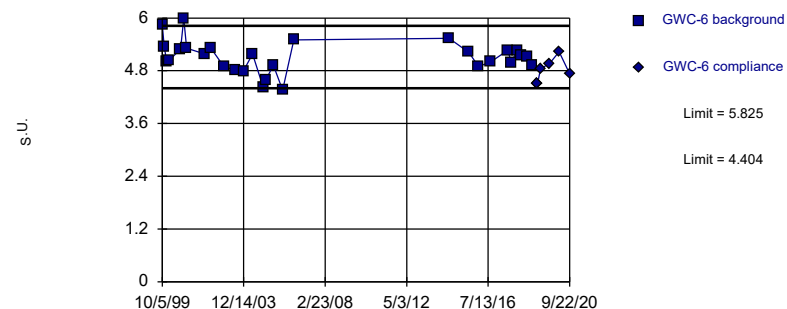


Background Data Summary (based on square root transformation): Mean=2.368, Std. Dev.=0.2389, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8999, critical = 0.896. Kappa = 1.964 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

### Prediction Limit Intrawell Parametric



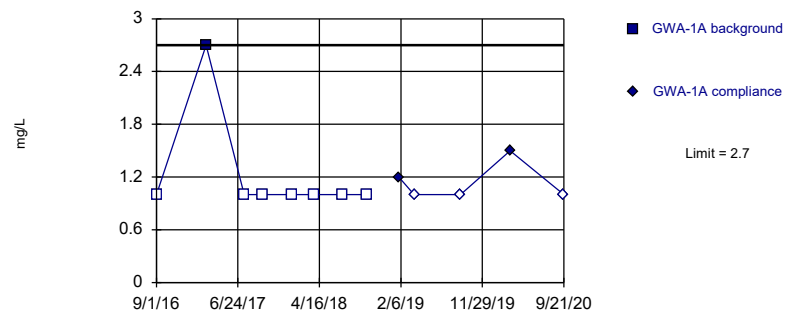
Background Data Summary: Mean=5.114, Std. Dev.=0.3619, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9688, critical = 0.896. Kappa = 1.964 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



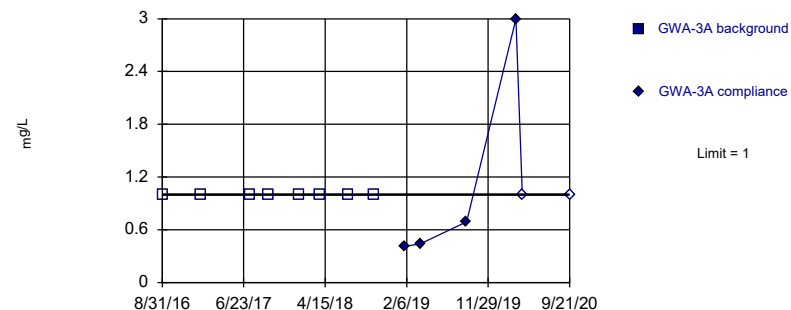
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Sulfate Analysis Run 11/17/2020 1:59 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 8) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Sulfate Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWC-5    | GWC-5 |
|------------|----------|-------|
| 10/5/1999  | 6.13     |       |
| 11/12/1999 | 5.81     |       |
| 12/29/1999 | 5.43     |       |
| 2/17/2000  | 5.49     |       |
| 9/13/2000  | 5.05     |       |
| 11/10/2000 | 5.48     |       |
| 1/4/2001   | 4.99     |       |
| 12/11/2001 | 5.52     |       |
| 4/4/2002   | 5.5      |       |
| 12/6/2002  | 4.58 (D) |       |
| 6/28/2003  | 4.32     |       |
| 12/13/2003 | 4.73     |       |
| 5/28/2004  | 4.5      |       |
| 12/10/2004 | 4.28     |       |
| 6/24/2005  | 4.56     |       |
| 12/13/2005 | 4.49     |       |
| 7/12/2006  | 4.8      |       |
| 7/11/2014  | 4.83     |       |
| 7/15/2015  | 4.66     |       |
| 1/16/2016  | 5.05     |       |
| 9/1/2016   | 7.21     |       |
| 1/24/2017  | 8.32     |       |
| 7/20/2017  | 7.41     |       |
| 9/21/2017  | 6.94     |       |
| 1/9/2018   | 7.39     |       |
| 3/28/2018  | 7.31     |       |
| 7/11/2018  | 7.09     |       |
| 10/9/2018  | 6.68     |       |
| 1/31/2019  |          | 5.69  |
| 3/28/2019  |          | 5.46  |
| 9/12/2019  |          | 5.96  |
| 3/31/2020  |          | 6.17  |
| 9/22/2020  |          | 5.87  |

# Prediction Limit

Constituent: pH (S.U.)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|            | GWC-6   | GWC-6 |
|------------|---------|-------|
| 10/5/1999  | 5.84    |       |
| 11/12/1999 | 5.34    |       |
| 12/29/1999 | 5.01    |       |
| 2/17/2000  | 5.04    |       |
| 9/13/2000  | 5.29    |       |
| 11/10/2000 | 5.99    |       |
| 1/4/2001   | 5.31    |       |
| 12/11/2001 | 5.18    |       |
| 4/4/2002   | 5.31    |       |
| 12/6/2002  | 4.9 (D) |       |
| 6/28/2003  | 4.82    |       |
| 12/13/2003 | 4.8     |       |
| 5/28/2004  | 5.18    |       |
| 12/10/2004 | 4.43    |       |
| 2/5/2005   | 4.6     |       |
| 6/24/2005  | 4.93    |       |
| 12/13/2005 | 4.36    |       |
| 7/12/2006  | 5.5     |       |
| 7/11/2014  | 5.54    |       |
| 7/15/2015  | 5.22    |       |
| 1/16/2016  | 4.9     |       |
| 9/1/2016   | 5       |       |
| 7/19/2017  | 5.27    |       |
| 9/21/2017  | 4.99    |       |
| 1/9/2018   | 5.25    |       |
| 3/28/2018  | 5.14    |       |
| 7/10/2018  | 5.13    |       |
| 10/9/2018  | 4.93    |       |
| 1/30/2019  |         | 4.52  |
| 1/31/2019  |         | 4.52  |
| 3/28/2019  |         | 4.85  |
| 9/12/2019  |         | 4.96  |
| 3/11/2020  |         | 5.23  |
| 9/22/2020  |         | 4.73  |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

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|           | GWA-1A | GWA-1A |
|-----------|--------|--------|
| 9/1/2016  | <1     |        |
| 2/28/2017 | 2.7    |        |
| 7/17/2017 | <1     |        |
| 9/20/2017 | <1     |        |
| 1/8/2018  | <1     |        |
| 3/27/2018 | <1     |        |
| 7/10/2018 | <1     |        |
| 10/8/2018 | <1     |        |
| 1/30/2019 |        | 1.2    |
| 3/27/2019 |        | <1     |
| 9/11/2019 |        | <1     |
| 3/10/2020 |        | 1.5    |
| 9/21/2020 |        | <1     |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

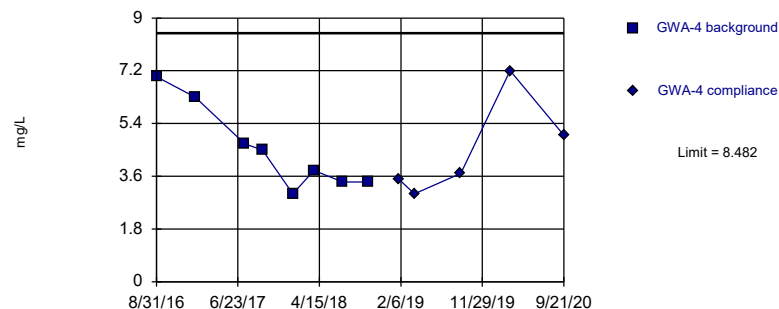
|           | GWA-3A | GWA-3A   |
|-----------|--------|----------|
| 8/31/2016 | <1     |          |
| 1/19/2017 | <1     |          |
| 7/18/2017 | <1     |          |
| 9/20/2017 | <1     |          |
| 1/9/2018  | <1     |          |
| 3/27/2018 | <1     |          |
| 7/10/2018 | <1     |          |
| 10/9/2018 | <1     |          |
| 1/30/2019 |        | 0.41 (J) |
| 3/28/2019 |        | 0.44 (J) |
| 9/12/2019 |        | 0.69 (J) |
| 3/10/2020 |        | 3        |
| 4/2/2020  |        | <1       |
| 9/21/2020 |        | <1       |



Within Limit

## Prediction Limit

Intrawell Parametric



# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-4 | GWA-4 |
|-----------|-------|-------|
| 8/31/2016 | 7     |       |
| 1/19/2017 | 6.3   |       |
| 7/18/2017 | 4.7   |       |
| 9/21/2017 | 4.5   |       |
| 1/9/2018  | 3     |       |
| 3/27/2018 | 3.8   |       |
| 7/10/2018 | 3.4   |       |
| 10/8/2018 | 3.4   |       |
| 1/30/2019 |       | 3.5   |
| 3/28/2019 |       | 3     |
| 9/12/2019 |       | 3.7   |
| 3/10/2020 |       | 7.2   |
| 9/21/2020 |       | 5     |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-5 | GWA-5 |
|-----------|-------|-------|
| 8/31/2016 | 21    |       |
| 1/19/2017 | 11    |       |
| 7/19/2017 | 12    |       |
| 9/21/2017 | 15    |       |
| 1/9/2018  | 25    |       |
| 3/27/2018 | 31    |       |
| 7/10/2018 | 19    |       |
| 10/8/2018 | 17    |       |
| 1/30/2019 |       | 15    |
| 3/27/2019 |       | 20    |
| 9/12/2019 |       | 10    |
| 3/10/2020 |       | 15    |
| 9/22/2020 |       | 12    |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-1 | GWC-1    |
|-----------|-------|----------|
| 8/31/2016 | <1    |          |
| 1/23/2017 | <1    |          |
| 7/19/2017 | <1    |          |
| 9/21/2017 | <1    |          |
| 1/9/2018  | <1    |          |
| 3/28/2018 | <1    |          |
| 7/11/2018 | <1    |          |
| 10/9/2018 | <1    |          |
| 1/30/2019 |       | 0.58 (J) |
| 3/28/2019 |       | 0.67 (J) |
| 9/12/2019 |       | 0.78 (J) |
| 3/11/2020 |       | 3.5      |
| 9/22/2020 |       | 0.63 (J) |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI

Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

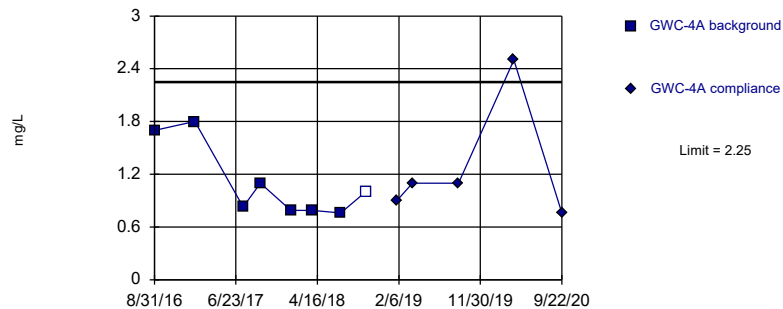
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|           | GWC-2 | GWC-2    |
|-----------|-------|----------|
| 8/31/2016 | <1    |          |
| 1/24/2017 | <1    |          |
| 7/19/2017 | <1    |          |
| 9/21/2017 | <1    |          |
| 1/9/2018  | <1    |          |
| 3/29/2018 | <1    |          |
| 7/10/2018 | <1    |          |
| 10/9/2018 | <1    |          |
| 1/31/2019 |       | 0.57 (J) |
| 3/28/2019 |       | <1       |
| 9/12/2019 |       | 0.43 (J) |
| 3/31/2020 |       | 1        |
| 9/22/2020 |       | <1       |

Within Limit

### Prediction Limit

Intrawell Parametric



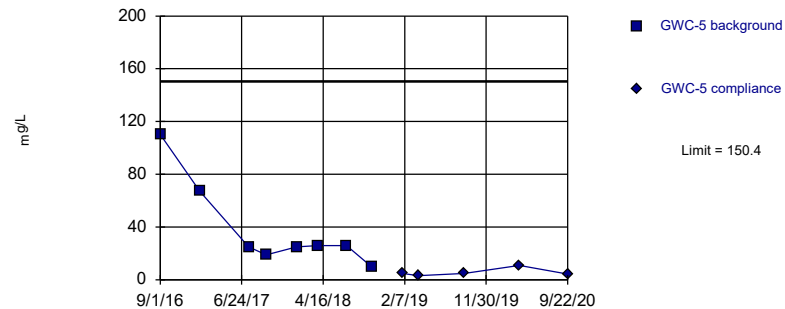
Background Data Summary: Mean=1.096, Std. Dev.=0.421, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7756, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



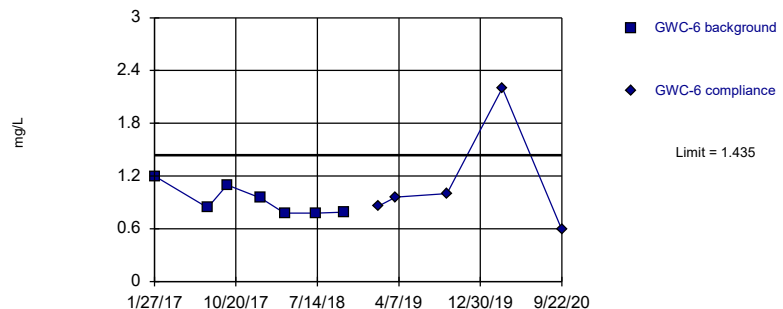
Background Data Summary (based on square root transformation): Mean=5.799, Std. Dev.=2.359, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8242, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



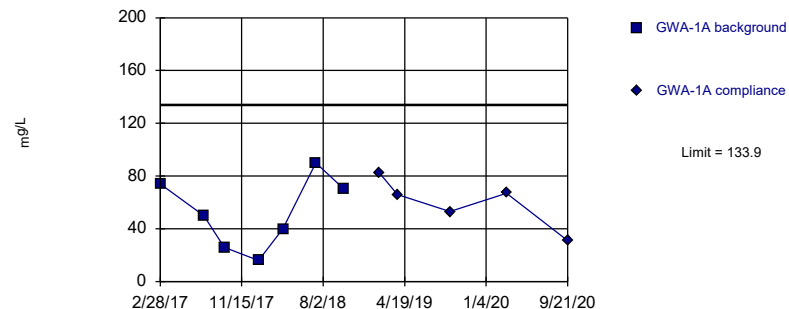
Background Data Summary: Mean=0.92, Std. Dev.=0.1704, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8341, critical = 0.73. Kappa = 3.024 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=52.29, Std. Dev.=26.99, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.73. Kappa = 3.024 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-4A   | GWC-4A   |
|-----------|----------|----------|
| 8/31/2016 | 1.7      |          |
| 1/25/2017 | 1.8      |          |
| 7/20/2017 | 0.83 (J) |          |
| 9/21/2017 | 1.1      |          |
| 1/9/2018  | 0.79 (J) |          |
| 3/28/2018 | 0.79 (J) |          |
| 7/10/2018 | 0.76 (J) |          |
| 10/9/2018 | <1       |          |
| 1/30/2019 |          | 0.9 (J)  |
| 3/28/2019 |          | 1.1      |
| 9/12/2019 |          | 1.1      |
| 3/31/2020 |          | 2.5      |
| 9/22/2020 |          | 0.76 (J) |

# Prediction Limit

Constituent: Sulfate (mg/L)   Analysis Run 11/17/2020 2:06 PM   View: Federal AllI  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWC-5 | GWC-5 |
|-----------|-------|-------|
| 9/1/2016  | 110   |       |
| 1/24/2017 | 67    |       |
| 7/20/2017 | 25    |       |
| 9/21/2017 | 19    |       |
| 1/10/2018 | 25    |       |
| 3/28/2018 | 26    |       |
| 7/11/2018 | 26    |       |
| 10/9/2018 | 10    |       |
| 1/31/2019 |       | 4.8   |
| 3/28/2019 |       | 3     |
| 9/12/2019 |       | 4.9   |
| 3/31/2020 |       | 11    |
| 9/22/2020 |       | 4.3   |



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AllI

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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|           | GWC-6    | GWC-6    |
|-----------|----------|----------|
| 1/27/2017 | 1.2      |          |
| 7/20/2017 | 0.84 (J) |          |
| 9/22/2017 | 1.1      |          |
| 1/10/2018 | 0.95 (J) |          |
| 3/29/2018 | 0.78 (J) |          |
| 7/11/2018 | 0.78 (J) |          |
| 10/9/2018 | 0.79 (J) |          |
| 1/31/2019 |          | 0.86 (J) |
| 3/28/2019 |          | 0.96 (J) |
| 9/12/2019 |          | 1        |
| 3/11/2020 |          | 2.2      |
| 9/22/2020 |          | 0.59 (J) |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

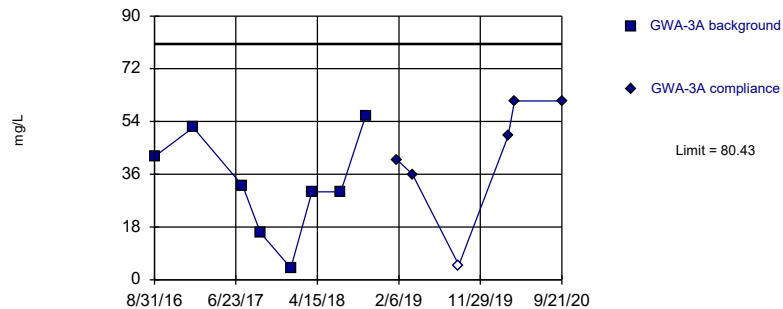
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A   | GWA-1A |
|-----------|----------|--------|
| 9/1/2016  | 2200 (o) |        |
| 2/28/2017 | 74 (D)   |        |
| 7/17/2017 | 50       |        |
| 9/20/2017 | 26       |        |
| 1/8/2018  | 16       |        |
| 3/27/2018 | 40       |        |
| 7/10/2018 | 90       |        |
| 10/8/2018 | 70       |        |
| 1/30/2019 |          | 82     |
| 3/27/2019 |          | 66     |
| 9/11/2019 |          | 53     |
| 3/10/2020 |          | 67     |
| 9/21/2020 |          | 31     |

Within Limit

### Prediction Limit

Intrawell Parametric



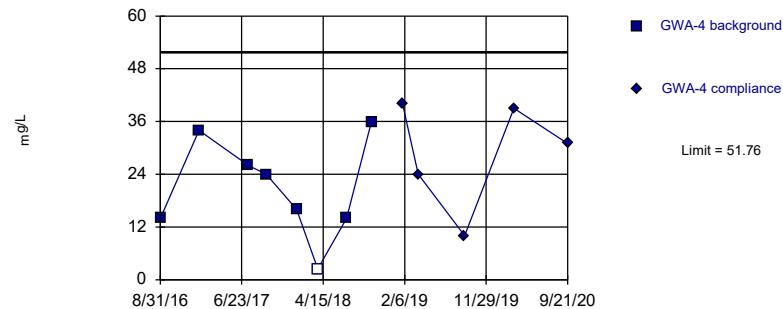
Background Data Summary: Mean=32.75, Std. Dev.=17.4, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



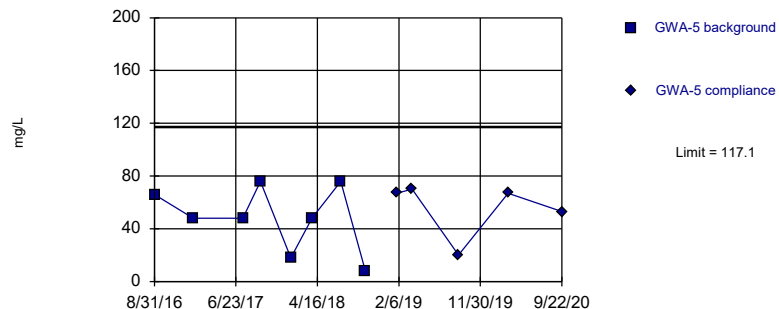
Background Data Summary: Mean=20.81, Std. Dev.=11.29, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



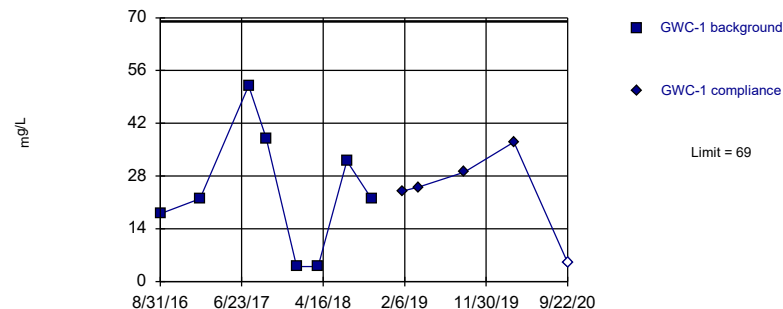
Background Data Summary: Mean=48.5, Std. Dev.=25.04, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8939, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=24, Std. Dev.=16.42, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9454, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-3A | GWA-3A |
|-----------|--------|--------|
| 8/31/2016 | 42 (D) |        |
| 1/19/2017 | 52 (D) |        |
| 7/18/2017 | 32     |        |
| 9/20/2017 | 16     |        |
| 1/9/2018  | 4 (J)  |        |
| 3/27/2018 | 30     |        |
| 7/10/2018 | 30     |        |
| 10/9/2018 | 56     |        |
| 1/30/2019 |        | 41     |
| 3/28/2019 |        | 36     |
| 9/12/2019 |        | <10    |
| 3/10/2020 |        | 49     |
| 4/2/2020  |        | 61     |
| 9/21/2020 |        | 61     |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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|           | GWA-4  | GWA-4 |
|-----------|--------|-------|
| 8/31/2016 | 14 (D) |       |
| 1/19/2017 | 34 (D) |       |
| 7/18/2017 | 26     |       |
| 9/21/2017 | 24     |       |
| 1/9/2018  | 16     |       |
| 3/27/2018 | <5     |       |
| 7/10/2018 | 14     |       |
| 10/8/2018 | 36     |       |
| 1/30/2019 |        | 40    |
| 3/28/2019 |        | 24    |
| 9/12/2019 |        | 10    |
| 3/10/2020 |        | 39    |
| 9/21/2020 |        | 31    |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-5  | GWA-5 |
|-----------|--------|-------|
| 8/31/2016 | 66 (D) |       |
| 1/19/2017 | 48 (D) |       |
| 7/19/2017 | 48     |       |
| 9/21/2017 | 76     |       |
| 1/9/2018  | 18     |       |
| 3/27/2018 | 48     |       |
| 7/10/2018 | 76     |       |
| 10/8/2018 | 8      |       |
| 1/30/2019 |        | 67    |
| 3/27/2019 |        | 70    |
| 9/12/2019 |        | 20    |
| 3/10/2020 |        | 67    |
| 9/22/2020 |        | 53    |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

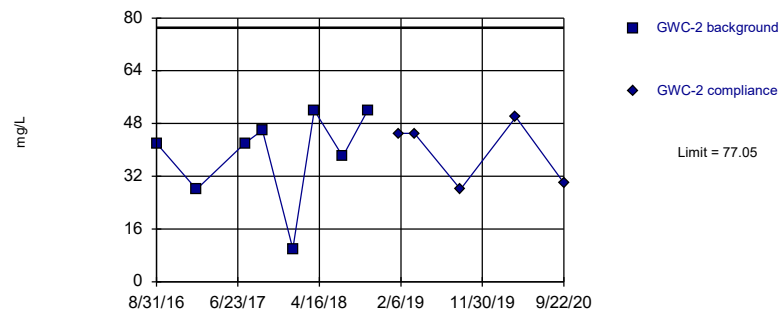
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-1  | GWC-1 |
|-----------|--------|-------|
| 8/31/2016 | 18 (D) |       |
| 1/23/2017 | 22 (D) |       |
| 7/19/2017 | 52     |       |
| 9/21/2017 | 38     |       |
| 1/9/2018  | 4 (J)  |       |
| 3/28/2018 | 4 (J)  |       |
| 7/11/2018 | 32     |       |
| 10/9/2018 | 22     |       |
| 1/30/2019 |        | 24    |
| 3/28/2019 |        | 25    |
| 9/12/2019 |        | 29    |
| 3/11/2020 |        | 37    |
| 9/22/2020 |        | <10   |

Within Limit

## Prediction Limit

Intrawell Parametric



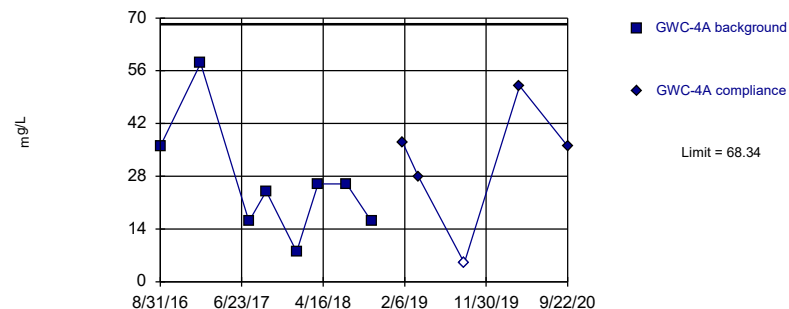
Background Data Summary: Mean=38.75, Std. Dev.=13.98, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8657, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

## Prediction Limit

Intrawell Parametric



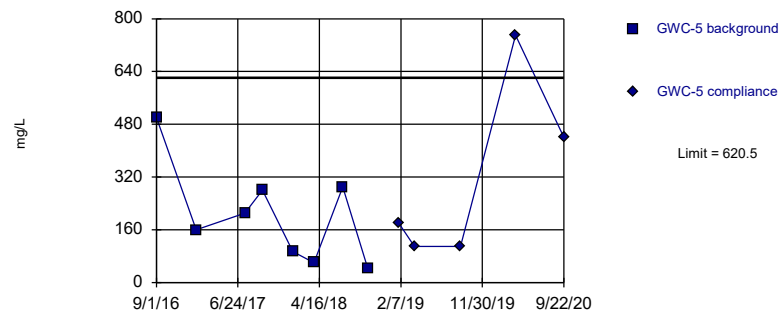
Background Data Summary: Mean=26.25, Std. Dev.=15.36, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8949, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

## Prediction Limit

Intrawell Parametric



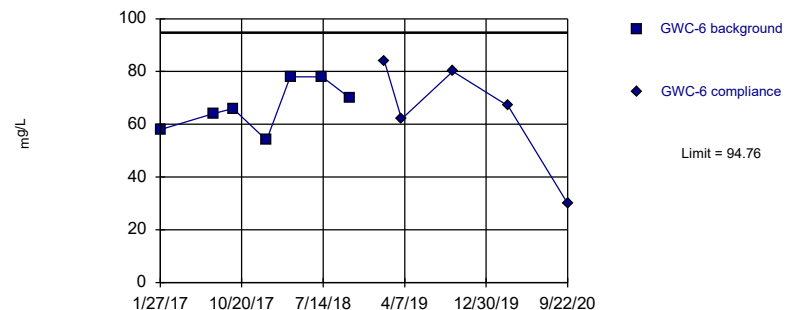
Background Data Summary: Mean=204.8, Std. Dev.=151.7, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9146, critical = 0.749. Kappa = 2.74 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

## Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=66.86, Std. Dev.=9.227, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.73. Kappa = 3.024 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 11/17/2020 2:00 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-2  | GWC-2 |
|-----------|--------|-------|
| 8/31/2016 | 42 (D) |       |
| 1/24/2017 | 28 (D) |       |
| 7/19/2017 | 42     |       |
| 9/21/2017 | 46     |       |
| 1/9/2018  | 10     |       |
| 3/29/2018 | 52     |       |
| 7/10/2018 | 38     |       |
| 10/9/2018 | 52     |       |
| 1/31/2019 |        | 45    |
| 3/28/2019 |        | 45    |
| 9/12/2019 |        | 28    |
| 3/31/2020 |        | 50    |
| 9/22/2020 |        | 30    |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-4A | GWC-4A |
|-----------|--------|--------|
| 8/31/2016 | 36 (D) |        |
| 1/25/2017 | 58 (D) |        |
| 7/20/2017 | 16     |        |
| 9/21/2017 | 24     |        |
| 1/9/2018  | 8      |        |
| 3/28/2018 | 26     |        |
| 7/10/2018 | 26     |        |
| 10/9/2018 | 16     |        |
| 1/30/2019 |        | 37     |
| 3/28/2019 |        | 28     |
| 9/12/2019 |        | <10    |
| 3/31/2020 |        | 52     |
| 9/22/2020 |        | 36     |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-5   | GWC-5 |
|-----------|---------|-------|
| 9/1/2016  | 500 (D) |       |
| 1/24/2017 | 160 (D) |       |
| 7/20/2017 | 210     |       |
| 9/21/2017 | 280     |       |
| 1/10/2018 | 94      |       |
| 3/28/2018 | 60      |       |
| 7/11/2018 | 290     |       |
| 10/9/2018 | 44      |       |
| 1/31/2019 |         | 180   |
| 3/28/2019 |         | 110   |
| 9/12/2019 |         | 110   |
| 3/31/2020 |         | 750   |
| 9/22/2020 |         | 440   |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2020 2:06 PM View: Federal AIII

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-6  | GWC-6 |
|-----------|--------|-------|
| 1/27/2017 | 58 (D) |       |
| 7/20/2017 | 64     |       |
| 9/22/2017 | 66     |       |
| 1/10/2018 | 54     |       |
| 3/29/2018 | 78     |       |
| 7/11/2018 | 78     |       |
| 10/9/2018 | 70     |       |
| 1/31/2019 |        | 84    |
| 3/28/2019 |        | 62    |
| 9/12/2019 |        | 80    |
| 3/11/2020 |        | 67    |
| 9/22/2020 |        | 30    |

FIGURE E.

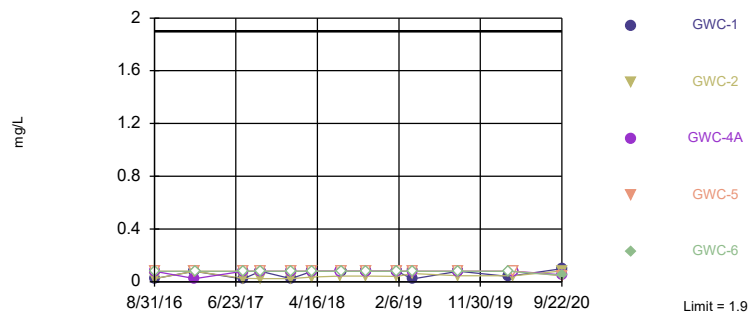
# Interwell Prediction Limit Summary - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 1:58 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-1  | 1.9        | n/a        | 9/22/2020 | 0.098   | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-2  | 1.9        | n/a        | 9/22/2020 | 0.083   | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-4A | 1.9        | n/a        | 9/22/2020 | 0.053J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-5  | 1.9        | n/a        | 9/22/2020 | 0.045J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Boron (mg/L)    | GWC-6  | 1.9        | n/a        | 9/22/2020 | 0.048J  | No   | 65 | n/a  | n/a  | 49.23     | n/a  | n/a     | 0.0004556 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-1  | 20         | n/a        | 9/22/2020 | 0.21J   | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-2  | 20         | n/a        | 9/22/2020 | 2.1     | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-4A | 20         | n/a        | 9/22/2020 | 0.51    | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-5  | 20         | n/a        | 9/22/2020 | 8       | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Calcium (mg/L)  | GWC-6  | 20         | n/a        | 9/22/2020 | 1.9     | No   | 64 | n/a  | n/a  | 0         | n/a  | n/a     | 0.0004691 | NP Inter (normality) ... |        |
| Fluoride (mg/L) | GWC-2  | 0.21       | n/a        | 9/22/2020 | 0.1ND   | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |
| Fluoride (mg/L) | GWC-4A | 0.21       | n/a        | 9/22/2020 | 0.1ND   | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |
| Fluoride (mg/L) | GWC-5  | 0.21       | n/a        | 9/22/2020 | 0.1     | No   | 59 | n/a  | n/a  | 64.41     | n/a  | n/a     | 0.0005451 | NP Inter (NDs) 1 of 2    |        |

Within Limit

### Prediction Limit Interwell Non-parametric

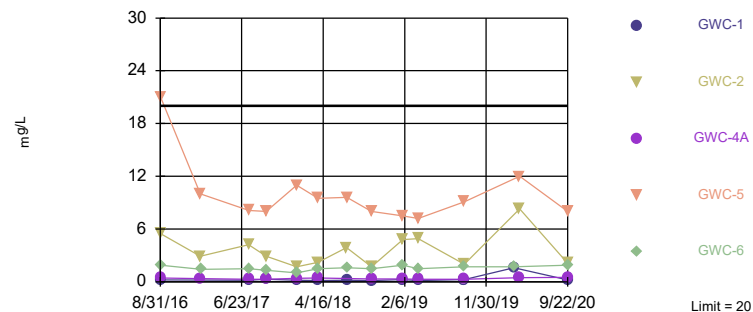


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 49.23% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 11/17/2020 1:58 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Interwell Non-parametric

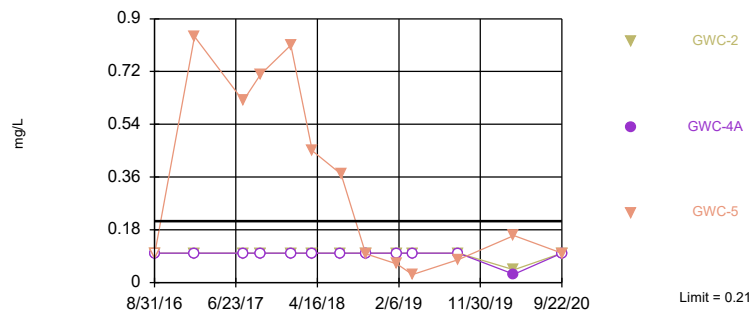


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. Annual per-constituent alpha = 0.004681. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 11/17/2020 1:58 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 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 59 background values. 64.41% NDs. Annual per-constituent alpha = 0.005437. Individual comparison alpha = 0.0005451 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Fluoride Analysis Run 11/17/2020 1:58 PM View: Federal AIII  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/17/2020 1:58 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-4A    | GWC-2     | GWC-1     | GWA-5 (bg) | GWA-4 (bg) | GWA-3A (bg) | GWA-1A (bg) | GWC-5     | GWC-6     |
|-----------|-----------|-----------|-----------|------------|------------|-------------|-------------|-----------|-----------|
| 8/31/2016 | <0.08     | 0.023 (J) | 0.023 (J) | 0.073      | <0.08      | <0.08       |             |           |           |
| 9/1/2016  |           |           |           |            |            |             | 0.029 (J)   | <0.08     | <0.08     |
| 1/19/2017 |           |           |           | 0.036 (J)  | 0.027 (J)  | <0.08       |             |           |           |
| 1/23/2017 |           |           | <0.08     |            |            |             |             |           |           |
| 1/24/2017 |           | <0.08     |           |            |            |             |             | <0.08     |           |
| 1/25/2017 | 0.023 (J) |           |           |            |            |             |             |           |           |
| 1/27/2017 |           |           |           |            |            |             |             |           | <0.08     |
| 2/28/2017 |           |           |           |            |            |             | <0.08       |           |           |
| 7/17/2017 |           |           |           |            |            |             | <0.08       |           |           |
| 7/18/2017 |           |           |           |            | <0.08      | <0.08       |             |           |           |
| 7/19/2017 |           | 0.026 (J) | 0.021 (J) | 0.07       |            |             |             |           |           |
| 7/20/2017 | <0.08     |           |           |            |            |             |             | <0.08     | <0.08     |
| 9/20/2017 |           |           |           |            |            | <0.08       | <0.08       |           |           |
| 9/21/2017 | <0.08     | 0.025 (J) | <0.08     | 0.07       | <0.08      |             |             | <0.08     |           |
| 9/22/2017 |           |           |           |            |            |             |             |           | <0.08     |
| 1/8/2018  |           |           |           |            |            |             | <0.08       |           |           |
| 1/9/2018  | <0.08     | 0.023 (J) | 0.025 (J) | 0.042 (J)  | <0.08      | <0.08       |             |           |           |
| 1/10/2018 |           |           |           |            |            |             |             | <0.08     | <0.08     |
| 3/27/2018 |           |           |           | 0.037 (J)  | <0.08      | <0.08       | <0.08       |           |           |
| 3/28/2018 | <0.08     |           | <0.08     |            |            |             |             | <0.08     |           |
| 3/29/2018 |           | 0.035 (J) |           |            |            |             |             |           | <0.08     |
| 7/10/2018 | <0.08     | 0.044 (J) |           | 0.042 (J)  | <0.08      | <0.08       | <0.08       |           |           |
| 7/11/2018 |           |           | <0.08     |            |            |             |             | <0.08     | <0.08     |
| 10/8/2018 |           |           |           | 0.044 (J)  | <0.08      |             | <0.08       |           |           |
| 10/9/2018 | <0.08     | 0.043 (J) | <0.08     |            |            | <0.08       |             | <0.08     | <0.08     |
| 1/30/2019 | <0.08     |           | <0.08     | 0.03 (J)   | <0.08      | <0.08       | <0.08       |           |           |
| 1/31/2019 |           | 0.04 (J)  |           |            |            |             |             | <0.08     | <0.08     |
| 3/27/2019 |           |           |           | 0.036 (J)  |            |             | <0.08       |           |           |
| 3/28/2019 | <0.08     | 0.062     | 0.021 (J) |            | <0.08      | 0.024 (J)   |             | <0.08     | <0.08     |
| 9/11/2019 |           |           |           |            |            |             | <0.08       |           |           |
| 9/12/2019 | <0.08     | 0.045 (J) | <0.08     | 0.048 (J)  | <0.08      | <0.08       |             | <0.08     | <0.08     |
| 3/10/2020 |           |           |           | 0.066 (J)  | <0.08      | 0.059 (J)   | <0.08       |           |           |
| 3/11/2020 |           |           | 0.04 (J)  |            |            |             |             |           | <0.08     |
| 3/31/2020 | <0.08     | 0.046 (J) |           |            |            |             |             | <0.08     |           |
| 4/2/2020  |           |           |           |            |            | 0.084       |             |           |           |
| 9/21/2020 |           |           |           |            | 0.073 (J)  | 0.11        | 0.11        |           |           |
| 9/22/2020 | 0.053 (J) | 0.083     | 0.098     | 0.097      |            |             |             | 0.045 (J) | 0.048 (J) |



# Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 11/17/2020 1:58 PM View: Federal All  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-7A (bg) | GWA-2B (bg) |
|-----------|-------------|-------------|
| 8/31/2016 |             |             |
| 9/1/2016  |             |             |
| 1/19/2017 |             |             |
| 1/23/2017 |             |             |
| 1/24/2017 |             |             |
| 1/25/2017 |             |             |
| 1/27/2017 |             |             |
| 2/28/2017 |             |             |
| 7/17/2017 |             |             |
| 7/18/2017 |             |             |
| 7/19/2017 |             |             |
| 7/20/2017 |             |             |
| 9/20/2017 |             |             |
| 9/21/2017 |             |             |
| 9/22/2017 |             |             |
| 1/8/2018  |             |             |
| 1/9/2018  |             |             |
| 1/10/2018 |             |             |
| 3/27/2018 |             |             |
| 3/28/2018 |             |             |
| 3/29/2018 |             |             |
| 7/10/2018 |             |             |
| 7/11/2018 |             |             |
| 10/8/2018 | 1.3         | 0.76        |
| 10/9/2018 |             |             |
| 1/30/2019 | 1.5         | 0.77        |
| 1/31/2019 |             |             |
| 3/27/2019 |             |             |
| 3/28/2019 | 1.4         | 0.83        |
| 9/11/2019 |             |             |
| 9/12/2019 | 1.6         | 0.65        |
| 3/10/2020 |             | 0.64        |
| 3/11/2020 | 1.9         |             |
| 3/31/2020 |             |             |
| 4/2/2020  |             |             |
| 9/21/2020 | 0.61        |             |
| 9/22/2020 |             | 0.73        |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/17/2020 1:58 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWC-4A   | GWC-2 | GWC-1    | GWA-5 (bg) | GWA-4 (bg) | GWA-3A (bg) | GWC-5 | GWC-6 | GWA-1A (bg) |
|-----------|----------|-------|----------|------------|------------|-------------|-------|-------|-------------|
| 8/31/2016 | 0.42     | 5.5   | 0.22 (J) | 3.7        | 0.88       | 1.5         |       |       |             |
| 9/1/2016  |          |       |          |            |            |             | 21    | 1.9   | 26 (o)      |
| 1/19/2017 |          |       |          | 2          | 1.1        | 1.8         |       |       |             |
| 1/23/2017 |          |       | 1.3 (o)  |            |            |             |       |       |             |
| 1/24/2017 |          | 2.9   |          |            |            |             | 10    |       |             |
| 1/25/2017 | 0.37     |       |          |            |            |             |       |       |             |
| 1/27/2017 |          |       |          |            |            |             |       | 1.4   |             |
| 2/28/2017 |          |       |          |            |            |             |       |       | 2.7         |
| 7/17/2017 |          |       |          |            |            |             |       |       | 1.7         |
| 7/18/2017 |          |       |          |            | 0.86       | 1.7         |       |       |             |
| 7/19/2017 |          | 4.2   | 0.19 (J) | 2.6        |            |             |       |       |             |
| 7/20/2017 | 0.29     |       |          |            |            |             | 8.1   | 1.5   |             |
| 9/20/2017 |          |       |          |            |            | 1.7         |       |       | 1.5         |
| 9/21/2017 | 0.3      | 2.9   | 0.3      | 2.7        | 0.9        |             | 8     |       |             |
| 9/22/2017 |          |       |          |            |            |             |       | 1.3   |             |
| 1/8/2018  |          |       |          |            |            |             |       |       | 1.7         |
| 1/9/2018  | 0.38     | 1.7   | 0.16 (J) | 4.1        | 1          | 1.9         |       |       |             |
| 1/10/2018 |          |       |          |            |            |             | 11    | 1     |             |
| 3/27/2018 |          |       |          | 4.8        | 0.89       | 1.9         |       |       | 1.7         |
| 3/28/2018 | 0.44     |       | 0.14 (J) |            |            |             | 9.5   |       |             |
| 3/29/2018 |          | 2.2   |          |            |            |             |       | 1.5   |             |
| 7/10/2018 | 2 (o)    | 3.9   |          | 3.7        | 0.99       | 1.9         |       |       | 1.7         |
| 7/11/2018 |          |       | 0.18 (J) |            |            |             | 9.6   | 1.6   |             |
| 10/8/2018 |          |       |          | 3.2        | 1.1        |             |       |       | 1.6         |
| 10/9/2018 | 0.34     | 1.7   | 0.13 (J) |            |            | 2.2         | 8     | 1.5   |             |
| 1/30/2019 | 0.34     |       | 0.24 (J) | 1.7        | 1          | 2.4         |       |       | 1.9         |
| 1/31/2019 |          | 4.8   |          |            |            |             | 7.5   | 1.9   |             |
| 3/27/2019 |          |       |          | 3.1        |            |             |       |       | 1.6         |
| 3/28/2019 | 0.3      | 4.9   | 0.15 (J) |            | 0.98       | 2.4         | 7.2   | 1.5   |             |
| 9/11/2019 |          |       |          |            |            |             |       |       | 1.6         |
| 9/12/2019 | 0.3 (J)  | 2     | <0.5 (D) | 1.9        | 0.84       | 2.3         | 9.1   | 1.7   |             |
| 3/10/2020 |          |       |          | 2.9        | 1.1        | 2.8         |       |       | 2           |
| 3/11/2020 |          |       | 1.6      |            |            |             |       | 1.7   |             |
| 3/31/2020 | 0.48 (J) | 8.3   |          |            |            |             | 12    |       |             |
| 4/2/2020  |          |       |          |            |            | 3           |       |       |             |
| 9/21/2020 |          |       |          |            | 1.4        | 3.1         |       |       | 1.8         |
| 9/22/2020 | 0.51     | 2.1   | 0.21 (J) | 2.9        |            |             | 8     | 1.9   |             |

# Prediction Limit

Page 2

Constituent: Calcium (mg/L)   Analysis Run 11/17/2020 1:58 PM   View: Federal AIII  
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR

|           | GWA-7A (bg) | GWA-2B (bg) |
|-----------|-------------|-------------|
| 8/31/2016 |             |             |
| 9/1/2016  |             |             |
| 1/19/2017 |             |             |
| 1/23/2017 |             |             |
| 1/24/2017 |             |             |
| 1/25/2017 |             |             |
| 1/27/2017 |             |             |
| 2/28/2017 |             |             |
| 7/17/2017 |             |             |
| 7/18/2017 |             |             |
| 7/19/2017 |             |             |
| 7/20/2017 |             |             |
| 9/20/2017 |             |             |
| 9/21/2017 |             |             |
| 9/22/2017 |             |             |
| 1/8/2018  |             |             |
| 1/9/2018  |             |             |
| 1/10/2018 |             |             |
| 3/27/2018 |             |             |
| 3/28/2018 |             |             |
| 3/29/2018 |             |             |
| 7/10/2018 |             |             |
| 7/11/2018 |             |             |
| 10/8/2018 | 17          | 17          |
| 10/9/2018 |             |             |
| 1/30/2019 | 15          | 16          |
| 1/31/2019 |             |             |
| 3/27/2019 |             |             |
| 3/28/2019 | 18          | 16          |
| 9/11/2019 |             |             |
| 9/12/2019 | 19          | 15          |
| 3/10/2020 |             | 14          |
| 3/11/2020 | 20          |             |
| 3/31/2020 |             |             |
| 4/2/2020  |             |             |
| 9/21/2020 | 13          |             |
| 9/22/2020 |             | 16          |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/17/2020 1:58 PM View: Federal All

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-3A (bg) | GWA-4 (bg) | GWA-5 (bg) | GWC-2     | GWC-4A    | GWA-1A (bg) | GWC-5     | GWA-2B (bg) |
|-----------|-------------|------------|------------|-----------|-----------|-------------|-----------|-------------|
| 8/31/2016 | <0.1        | <0.1       | 0.13 (J)   | <0.1      | <0.1      |             |           |             |
| 9/1/2016  |             |            |            |           |           | <0.1        | <0.1      |             |
| 1/19/2017 | <0.1        | 0.089 (J)  | <0.1       |           |           |             |           |             |
| 1/24/2017 |             |            |            | <0.1      |           |             | 0.84      |             |
| 1/25/2017 |             |            |            |           | <0.1      |             |           |             |
| 2/28/2017 |             |            |            |           |           | 0.098 (J)   |           |             |
| 7/17/2017 |             |            |            |           |           | <0.1        |           |             |
| 7/18/2017 | <0.1        | <0.1       |            |           |           |             |           |             |
| 7/19/2017 |             |            | <0.1       | <0.1      |           |             |           |             |
| 7/20/2017 |             |            |            |           | <0.1      |             | 0.62      |             |
| 9/20/2017 | <0.1        |            |            |           |           | <0.1        |           |             |
| 9/21/2017 |             | <0.1       | 0.13 (J)   | <0.1      | <0.1      |             | 0.71      |             |
| 1/8/2018  |             |            |            |           |           | <0.1        |           |             |
| 1/9/2018  | <0.1        | <0.1       | 0.13 (J)   | <0.1      | <0.1      |             |           |             |
| 1/10/2018 |             |            |            |           |           |             | 0.81      |             |
| 3/27/2018 | <0.1        | <0.1       | 0.21       |           |           | <0.1        |           |             |
| 3/28/2018 |             |            |            |           | <0.1      |             | 0.45      |             |
| 3/29/2018 |             |            |            | <0.1      |           |             |           |             |
| 7/10/2018 | <0.1        | <0.1       | 0.17 (J)   | <0.1      | <0.1      | <0.1        |           |             |
| 7/11/2018 |             |            |            |           |           |             | 0.37      |             |
| 10/8/2018 |             | <0.1       | 0.11 (J)   |           |           | <0.1        |           | <0.1        |
| 10/9/2018 | <0.1        |            |            | <0.1      | <0.1      |             | 0.098 (J) |             |
| 1/30/2019 | <0.1        | 0.029 (J)  | 0.089 (J)  |           | <0.1      | <0.1        |           | <0.1        |
| 1/31/2019 |             |            |            | <0.1      |           |             | 0.063 (J) |             |
| 3/27/2019 |             |            | 0.1 (J)    |           |           | <0.1        |           |             |
| 3/28/2019 | <0.1        | <0.1       |            | <0.1      | <0.1      |             | 0.027 (J) | <0.1        |
| 9/11/2019 |             |            |            |           |           | <0.1        |           |             |
| 9/12/2019 | <0.1        | 0.035 (J)  | 0.052 (J)  | <0.1      | <0.1      |             | 0.078 (J) | 0.036 (J)   |
| 3/10/2020 | 0.026 (J)   | 0.066 (J)  | 0.051 (J)  |           |           | <0.1        |           | <0.1        |
| 3/31/2020 |             |            |            | 0.043 (J) | 0.028 (J) |             | 0.16      |             |
| 4/2/2020  | 0.051 (J)   |            |            |           |           |             |           |             |
| 9/21/2020 | <0.1        | 0.06 (J)   |            |           |           | <0.1        |           |             |
| 9/22/2020 |             |            | 0.049 (J)  | <0.1      | <0.1      |             | 0.1       | 0.039 (J)   |

FIGURE F.

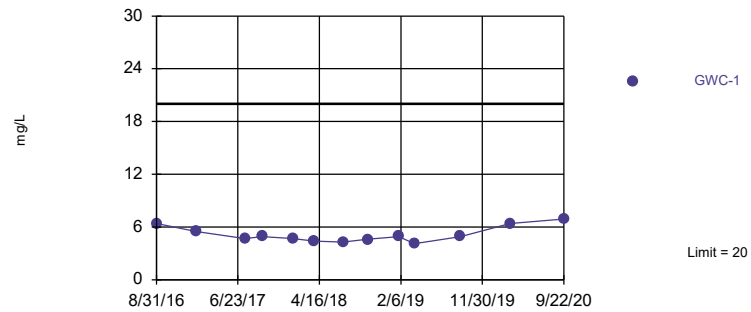
# Interwell Prediction Limit Summary (Intrawell Exceedances)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:44 PM

| 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-1 | 20         | n/a        | 9/22/2020 | 6.9     | No   | 65   | n/a     | n/a      | 0    | n/a     | n/a       | 0.0004556 | NP Inter (normality) ... |

Within Limit

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Assumes 4 future values.

Constituent: Chloride    Analysis Run 11/17/2020 2:44 PM    View: All Exceedances  
Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/17/2020 2:44 PM View: All Exceedances

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-4 (bg) | GWA-3A (bg) | GWA-5 (bg) | GWC-1 | GWA-1A (bg) | GWA-7A (bg) | GWA-2B (bg) |
|-----------|------------|-------------|------------|-------|-------------|-------------|-------------|
| 8/31/2016 | 3.7        | 6.8         | 7.1        | 6.4   |             |             |             |
| 9/1/2016  |            |             |            |       | 8           |             |             |
| 1/19/2017 | 4.6        | 6.9         | 3.3        |       |             |             |             |
| 1/23/2017 |            |             |            | 5.5   |             |             |             |
| 2/28/2017 |            |             |            |       | 8.5         |             |             |
| 7/17/2017 |            |             |            |       | 7.8         |             |             |
| 7/18/2017 | 4.2        | 7.4         |            |       |             |             |             |
| 7/19/2017 |            |             | 5.8        | 4.7   |             |             |             |
| 9/20/2017 |            | 7.6         |            |       | 8           |             |             |
| 9/21/2017 | 4.4        |             | 6.2        | 4.9   |             |             |             |
| 1/8/2018  |            |             |            |       | 7.9         |             |             |
| 1/9/2018  | 4.4        | 8.6         | 9.9        | 4.7   |             |             |             |
| 3/27/2018 | 4.9        | 9.4         | 13         |       | 8           |             |             |
| 3/28/2018 |            |             |            | 4.4   |             |             |             |
| 7/10/2018 | 5.5        | 11          | 17         |       | 7.8         |             |             |
| 7/11/2018 |            |             |            | 4.3   |             |             |             |
| 10/8/2018 | 6.6        |             | 16         |       | 8.5         | 6.8         | 7.3         |
| 10/9/2018 |            | 14          |            | 4.6   |             |             |             |
| 1/30/2019 | 6.9        | 15          | 6.5        | 4.9   | 8.2         | 7.1         | 7.3         |
| 3/27/2019 |            |             | 9.1        |       | 8.1         |             |             |
| 3/28/2019 | 5.7        | 15          |            | 4.1   |             | 6.1         | 6.1         |
| 9/11/2019 |            |             |            |       | 7.1         |             |             |
| 9/12/2019 | 6.1        | 16          | 9.1        | 4.9   |             | 6.8         | 7.6         |
| 3/10/2020 | 5          | 19          | 3.7        |       | 8.1         |             | 8           |
| 3/11/2020 |            |             |            | 6.4   |             | 6.9         |             |
| 4/2/2020  |            | 20          |            |       |             |             |             |
| 9/21/2020 | 5.4        | 19          |            |       | 8.1         | 6.5         |             |
| 9/22/2020 |            |             | 6.3        | 6.9   |             |             | 8           |



FIGURE G.

# Trend Test - Significant Results

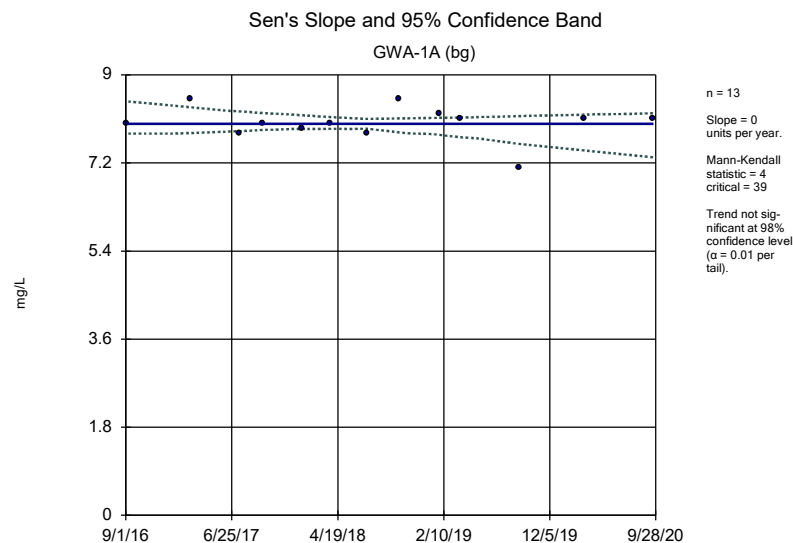
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 11/17/2020, 2:13 PM

| <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> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride (mg/L)    | GWA-3A (bg) | 3.85         | 87           | 44              | Yes         | 14       | 0           | n/a              | n/a          | 0.02         | NP            |
| Chloride (mg/L)    | GWA-4 (bg)  | 0.6368       | 43           | 39              | Yes         | 13       | 0           | n/a              | n/a          | 0.02         | NP            |

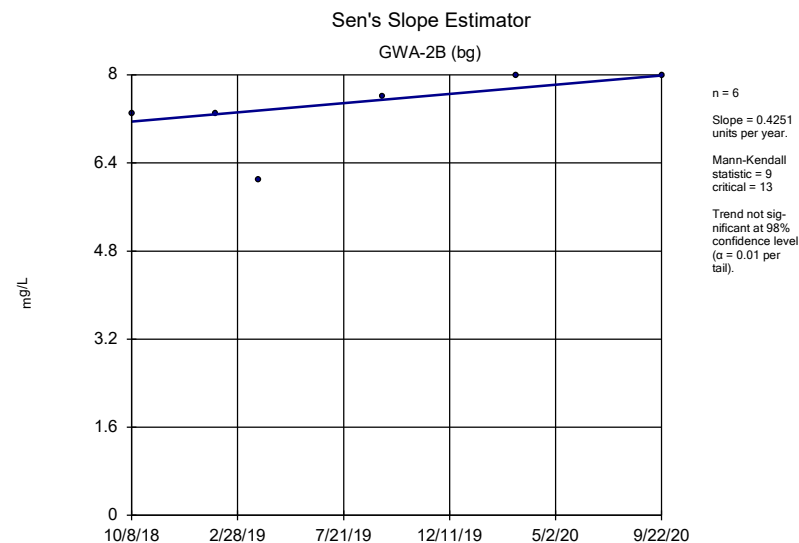
# Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/17/2020, 2:13 PM

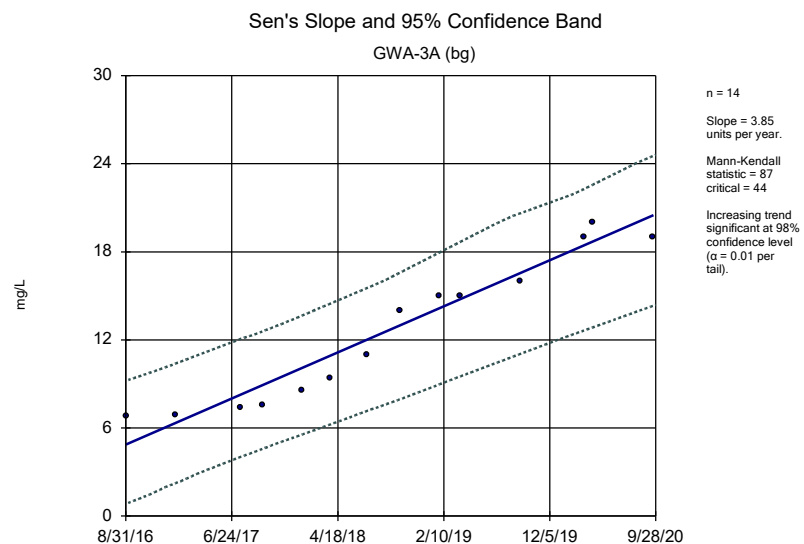
| Constituent            | Well               | Slope         | Calc.     | Critical  | Sig.       | N         | %NDs     | Normality  | Xform      | Alpha       | Method    |
|------------------------|--------------------|---------------|-----------|-----------|------------|-----------|----------|------------|------------|-------------|-----------|
| Chloride (mg/L)        | GWA-1A (bg)        | 0             | 4         | 39        | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWA-2B (bg)        | 0.4251        | 9         | 13        | No         | 6         | 0        | n/a        | n/a        | 0.02        | NP        |
| <b>Chloride (mg/L)</b> | <b>GWA-3A (bg)</b> | <b>3.85</b>   | <b>87</b> | <b>44</b> | <b>Yes</b> | <b>14</b> | <b>0</b> | <b>n/a</b> | <b>n/a</b> | <b>0.02</b> | <b>NP</b> |
| <b>Chloride (mg/L)</b> | <b>GWA-4 (bg)</b>  | <b>0.6368</b> | <b>43</b> | <b>39</b> | <b>Yes</b> | <b>13</b> | <b>0</b> | <b>n/a</b> | <b>n/a</b> | <b>0.02</b> | <b>NP</b> |
| Chloride (mg/L)        | GWA-5 (bg)         | 0.189         | 7         | 39        | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWA-7A (bg)        | -0.1534       | -2        | -13       | No         | 6         | 0        | n/a        | n/a        | 0.02        | NP        |
| Chloride (mg/L)        | GWC-1              | 0             | -1        | -39       | No         | 13        | 0        | n/a        | n/a        | 0.02        | NP        |



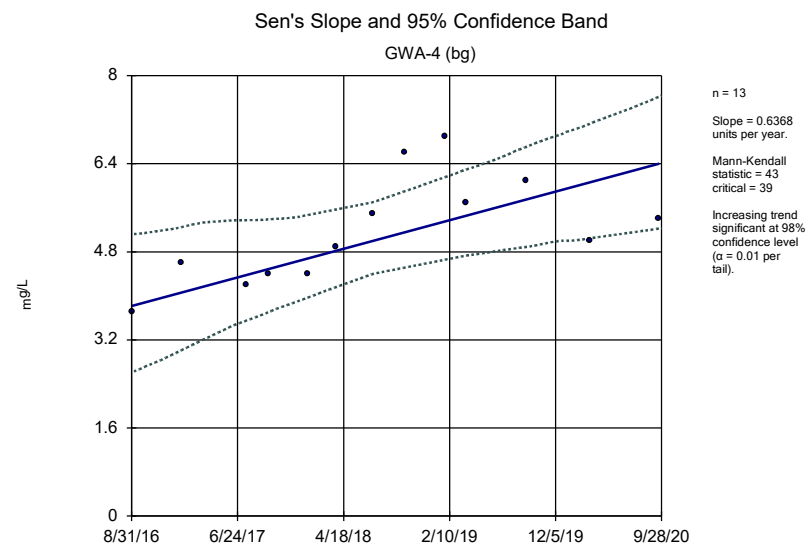
Constituent: Chloride Analysis Run 11/17/2020 2:12 PM View: All Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Chloride Analysis Run 11/17/2020 2:12 PM View: All Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Chloride Analysis Run 11/17/2020 2:12 PM View: All Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Chloride Analysis Run 11/17/2020 2:12 PM View: All Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

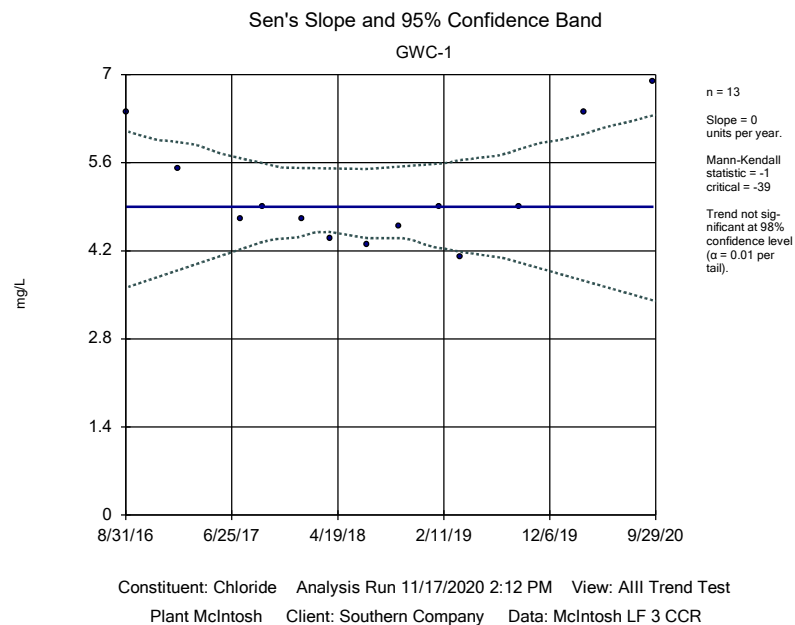
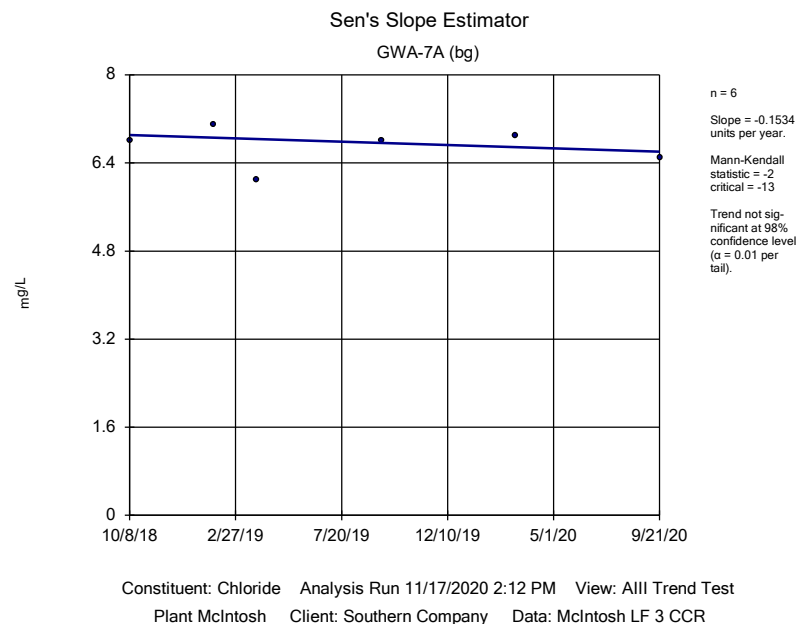
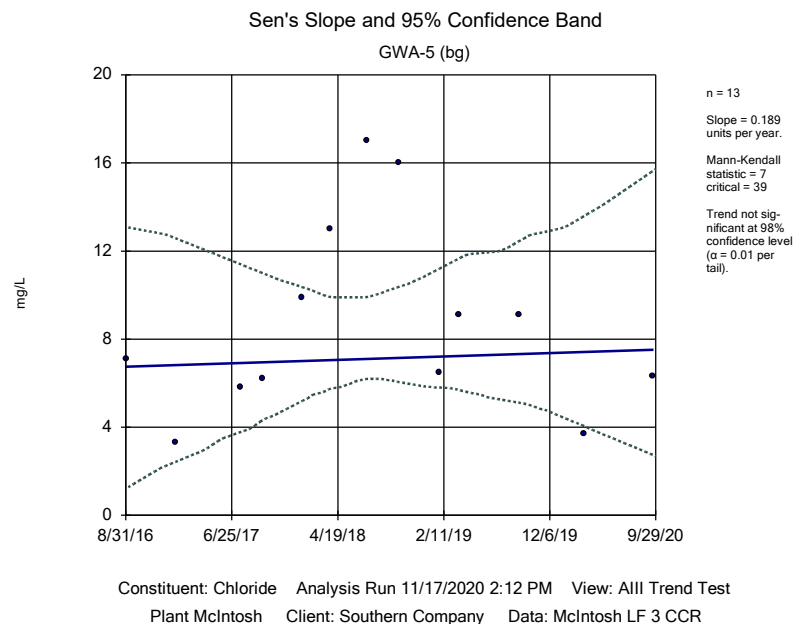


FIGURE H.

# Intrawell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:31 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) | GWA-3A | 0.05764    | n/a        | 9/21/2020 | 0.083   | Yes  | 44   | 0.04428 | 0.007109  | 0     | None    | No        | 0.001504 | Param Intra 1 of 2          |
| Zinc (mg/L)   | GWC-2  | 0.028      | n/a        | 9/22/2020 | 0.029   | Yes  | 40   | n/a     | n/a       | 25    | n/a     | n/a       | 0.001159 | NP Intra (normality) 1 of 2 |
| Zinc (mg/L)   | GWC-4A | 0.012      | n/a        | 9/22/2020 | 0.017   | Yes  | 39   | n/a     | n/a       | 48.72 | n/a     | n/a       | 0.001226 | NP Intra (normality) 1 of 2 |
| Zinc (mg/L)   | GWC-5  | 0.0369     | n/a        | 9/22/2020 | 0.037   | Yes  | 41   | -4.113  | 0.43      | 9.756 | None    | ln(x)     | 0.001504 | Param Intra 1 of 2          |

# Intrawell Prediction Limits - All Results

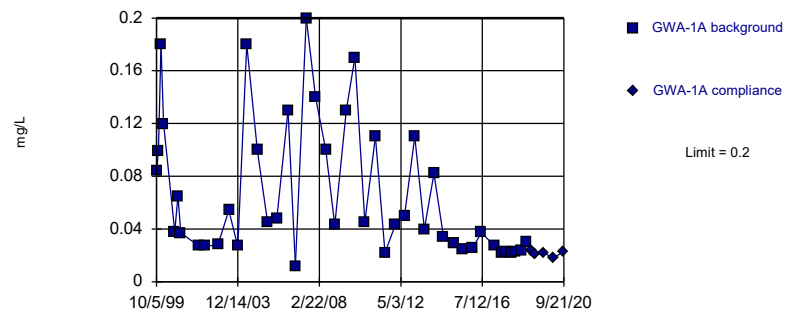
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:31 PM

| Constituent          | Well          | Upper Lim.     | Lower Lim. | Date             | Observ.      | Sig.       | Bg N      | Bg Mean        | Std. Dev.       | %NDs         | ND Adj.     | Transform    | Alpha           | Method                             |
|----------------------|---------------|----------------|------------|------------------|--------------|------------|-----------|----------------|-----------------|--------------|-------------|--------------|-----------------|------------------------------------|
| Barium (mg/L)        | GWA-1A        | 0.2            | n/a        | 9/21/2020        | 0.023        | No         | 44        | n/a            | n/a             | 0            | n/a         | n/a          | 0.0009963       | NP Intra (normality) 1 of 2        |
| <b>Barium (mg/L)</b> | <b>GWA-3A</b> | <b>0.05764</b> | <b>n/a</b> | <b>9/21/2020</b> | <b>0.083</b> | <b>Yes</b> | <b>44</b> | <b>0.04428</b> | <b>0.007109</b> | <b>0</b>     | <b>None</b> | <b>No</b>    | <b>0.001504</b> | <b>Param Intra 1 of 2</b>          |
| Barium (mg/L)        | GWA-4         | 0.05416        | n/a        | 9/21/2020        | 0.052        | No         | 45        | 0.03687        | 0.009212        | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWA-5         | 0.1787         | n/a        | 9/22/2020        | 0.078        | No         | 44        | 0.09875        | 0.04255         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-1         | 0.05862        | n/a        | 9/22/2020        | 0.022        | No         | 16        | 0.1593         | 0.03852         | 0            | None        | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-2         | 0.0871         | n/a        | 9/22/2020        | 0.061        | No         | 45        | 0.0647         | 0.01194         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-4A        | 0.08446        | n/a        | 9/22/2020        | 0.031        | No         | 45        | 0.05131        | 0.01767         | 0            | None        | No           | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-5         | 0.6045         | n/a        | 9/22/2020        | 0.51         | No         | 44        | -1.326         | 0.4377          | 0            | None        | ln(x)        | 0.001504        | Param Intra 1 of 2                 |
| Barium (mg/L)        | GWC-6         | 0.075          | n/a        | 9/22/2020        | 0.051        | No         | 43        | n/a            | n/a             | 0            | n/a         | n/a          | 0.001037        | NP Intra (normality) 1 of 2        |
| Beryllium (mg/L)     | GWA-1A        | 0.0028         | n/a        | 9/21/2020        | 0.0002J      | No         | 44        | n/a            | n/a             | 86.36        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-3A        | 0.0025         | n/a        | 9/21/2020        | 0.00054J     | No         | 45        | n/a            | n/a             | 80           | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 88.89        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWA-5         | 0.0036         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 80           | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-1         | 0.0025         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 95.56        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-2         | 0.0025         | n/a        | 9/22/2020        | 0.00025J     | No         | 45        | n/a            | n/a             | 86.67        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-4A        | 0.0025         | n/a        | 9/22/2020        | 0.0025ND     | No         | 45        | n/a            | n/a             | 93.33        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-5         | 0.0029         | n/a        | 9/22/2020        | 0.0011J      | No         | 45        | n/a            | n/a             | 73.33        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Beryllium (mg/L)     | GWC-6         | 0.0025         | n/a        | 9/22/2020        | 0.00021J     | No         | 44        | n/a            | n/a             | 86.36        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWA-1A        | 0.02461        | n/a        | 9/21/2020        | 0.0049       | No         | 39        | 0.08981        | 0.0353          | 12.82        | None        | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Chromium (mg/L)      | GWA-3A        | 0.0059         | n/a        | 9/21/2020        | 0.002ND      | No         | 45        | n/a            | n/a             | 37.78        | n/a         | n/a          | 0.0009557       | NP Intra (normality) 1 of 2        |
| Chromium (mg/L)      | GWA-4         | 0.0087         | n/a        | 9/21/2020        | 0.002ND      | No         | 44        | n/a            | n/a             | 81.82        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWA-5         | 0.0067         | n/a        | 9/22/2020        | 0.0017J      | No         | 44        | n/a            | n/a             | 52.27        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-1         | 0.002          | n/a        | 9/22/2020        | 0.0017J      | No         | 44        | n/a            | n/a             | 97.73        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-2         | 0.004562       | n/a        | 9/22/2020        | 0.0036       | No         | 41        | 0.04977        | 0.009395        | 24.39        | Kapla...    | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Chromium (mg/L)      | GWC-4A        | 0.0029         | n/a        | 9/22/2020        | 0.002ND      | No         | 43        | n/a            | n/a             | 95.35        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-5         | 0.0025         | n/a        | 9/22/2020        | 0.002ND      | No         | 42        | n/a            | n/a             | 90.48        | n/a         | n/a          | 0.001077        | NP Intra (NDs) 1 of 2              |
| Chromium (mg/L)      | GWC-6         | 0.0025         | n/a        | 9/22/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 87.8         | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-1A        | 0.0055         | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 85.37        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-3A        | 0.00205        | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWA-5         | 0.005          | n/a        | 9/22/2020        | 0.0013J      | No         | 37        | n/a            | n/a             | 83.78        | n/a         | n/a          | 0.001361        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-1         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 40        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-2         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 39        | n/a            | n/a             | 97.44        | n/a         | n/a          | 0.001226        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-5         | 0.0026         | n/a        | 9/22/2020        | 0.002ND      | No         | 41        | n/a            | n/a             | 95.12        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Copper (mg/L)        | GWC-6         | 0.002          | n/a        | 9/22/2020        | 0.002ND      | No         | 40        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-1A        | 0.00125        | n/a        | 9/21/2020        | 0.001ND      | No         | 38        | n/a            | n/a             | 94.74        | n/a         | n/a          | 0.001294        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-3A        | 0.001          | n/a        | 9/21/2020        | 0.001ND      | No         | 45        | n/a            | n/a             | 97.78        | n/a         | n/a          | 0.0009557       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-4         | 0.0023         | n/a        | 9/21/2020        | 0.00025J     | No         | 44        | n/a            | n/a             | 95.45        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWA-5         | 0.0013         | n/a        | 9/22/2020        | 0.0012       | No         | 44        | n/a            | n/a             | 84.09        | n/a         | n/a          | 0.0009963       | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-2         | 0.001          | n/a        | 9/22/2020        | 0.001ND      | No         | 43        | n/a            | n/a             | 97.67        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-5         | 0.001          | n/a        | 9/22/2020        | 0.00013J     | No         | 43        | n/a            | n/a             | 97.67        | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Lead (mg/L)          | GWC-6         | 0.0073         | n/a        | 9/22/2020        | 0.001ND      | No         | 43        | n/a            | n/a             | 90.7         | n/a         | n/a          | 0.001037        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-1A        | 0.055          | n/a        | 9/21/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 43.9         | n/a         | n/a          | 0.001118        | NP Intra (normality) 1 of 2        |
| Vanadium (mg/L)      | GWA-3A        | 0.0038         | n/a        | 9/21/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 95.12        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-4         | 0.0025         | n/a        | 9/21/2020        | 0.0012       | No         | 40        | n/a            | n/a             | 95           | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWA-5         | 0.0082         | n/a        | 9/22/2020        | 0.0056       | No         | 39        | n/a            | n/a             | 82.05        | n/a         | n/a          | 0.001226        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-1         | 0.0063         | n/a        | 9/22/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 97.56        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-2         | 0.0062         | n/a        | 9/22/2020        | 0.001ND      | No         | 40        | n/a            | n/a             | 92.5         | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-4A        | 0.001          | n/a        | 9/22/2020        | 0.001ND      | No         | 41        | n/a            | n/a             | 100          | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-5         | 0.017          | n/a        | 9/22/2020        | 0.0015       | No         | 40        | n/a            | n/a             | 85           | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Vanadium (mg/L)      | GWC-6         | 0.0021         | n/a        | 9/22/2020        | 0.0011       | No         | 40        | n/a            | n/a             | 97.5         | n/a         | n/a          | 0.001159        | NP Intra (NDs) 1 of 2              |
| Zinc (mg/L)          | GWA-1A        | 0.074          | n/a        | 9/21/2020        | 0.005ND      | No         | 41        | n/a            | n/a             | 31.71        | n/a         | n/a          | 0.001118        | NP Intra (normality) 1 of 2        |
| Zinc (mg/L)          | GWA-3A        | 0.02           | n/a        | 9/21/2020        | 0.0055       | No         | 38        | n/a            | n/a             | 52.63        | n/a         | n/a          | 0.001294        | NP Intra (NDs) 1 of 2              |
| Zinc (mg/L)          | GWA-4         | 0.03318        | n/a        | 9/21/2020        | 0.013        | No         | 41        | 0.1018         | 0.04245         | 19.51        | Kapla...    | sqrt(x)      | 0.001504        | Param Intra 1 of 2                 |
| Zinc (mg/L)          | GWA-5         | 0.068          | n/a        | 9/22/2020        | 0.039        | No         | 40        | n/a            | n/a             | 20           | n/a         | n/a          | 0.001159        | NP Intra (normality) 1 of 2        |
| Zinc (mg/L)          | GWC-1         | 0.015          | n/a        | 9/22/2020        | 0.005ND      | No         | 41        | n/a            | n/a             | 53.66        | n/a         | n/a          | 0.001118        | NP Intra (NDs) 1 of 2              |
| <b>Zinc (mg/L)</b>   | <b>GWC-2</b>  | <b>0.028</b>   | <b>n/a</b> | <b>9/22/2020</b> | <b>0.029</b> | <b>Yes</b> | <b>40</b> | <b>n/a</b>     | <b>n/a</b>      | <b>25</b>    | <b>n/a</b>  | <b>n/a</b>   | <b>0.001159</b> | <b>NP Intra (normality) 1 of 2</b> |
| <b>Zinc (mg/L)</b>   | <b>GWC-4A</b> | <b>0.012</b>   | <b>n/a</b> | <b>9/22/2020</b> | <b>0.017</b> | <b>Yes</b> | <b>39</b> | <b>n/a</b>     | <b>n/a</b>      | <b>48.72</b> | <b>n/a</b>  | <b>n/a</b>   | <b>0.001226</b> | <b>NP Intra (normality) 1 of 2</b> |
| <b>Zinc (mg/L)</b>   | <b>GWC-5</b>  | <b>0.0369</b>  | <b>n/a</b> | <b>9/22/2020</b> | <b>0.037</b> | <b>Yes</b> | <b>41</b> | <b>-4.113</b>  | <b>0.43</b>     | <b>9.756</b> | <b>None</b> | <b>ln(x)</b> | <b>0.001504</b> | <b>Param Intra 1 of 2</b>          |
| Zinc (mg/L)          | GWC-6         | 0.025          | n/a        | 9/22/2020        | 0.0053       | No         | 35        | n/a            | n/a             | 34.29        | n/a         | n/a          | 0.001497        | NP Intra (normality) 1 of 2        |



Within Limit

### Prediction Limit Intrawell Non-parametric

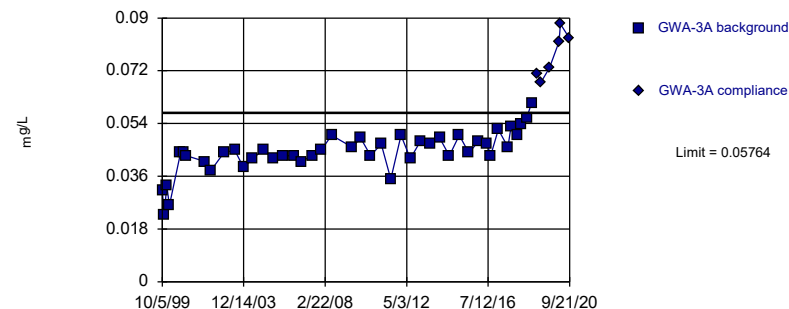


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Barium Analysis Run 12/2/2020 12:28 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Exceeds Limit

### Prediction Limit Intrawell Parametric

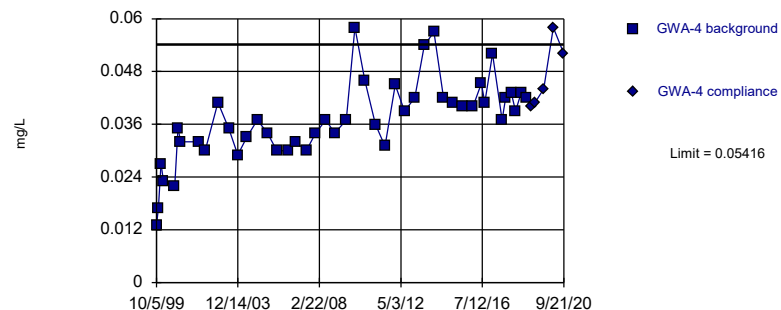


Background Data Summary: Mean=0.04428, Std. Dev.=0.007109, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9398, critical = 0.924. Kappa = 1.88 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:28 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

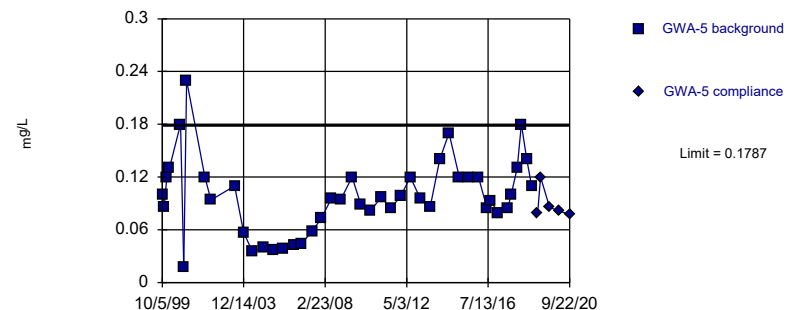


Background Data Summary: Mean=0.03687, Std. Dev.=0.009212, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9726, critical = 0.926. Kappa = 1.876 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:28 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary: Mean=0.09875, Std. Dev.=0.04255, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.924. Kappa = 1.88 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:28 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A     | GWA-1A |
|------------|------------|--------|
| 10/5/1999  | 0.084      |        |
| 11/12/1999 | 0.099      |        |
| 12/29/1999 | 0.18       |        |
| 2/17/2000  | 0.12       |        |
| 9/13/2000  | 0.038      |        |
| 11/10/2000 | 0.065      |        |
| 1/4/2001   | 0.037      |        |
| 12/11/2001 | 0.027      |        |
| 4/4/2002   | 0.027      |        |
| 12/6/2002  | 0.028      |        |
| 6/28/2003  | 0.054      |        |
| 12/13/2003 | 0.027      |        |
| 5/28/2004  | 0.18       |        |
| 12/10/2004 | 0.1        |        |
| 6/24/2005  | 0.045      |        |
| 12/13/2005 | 0.048      |        |
| 7/12/2006  | 0.13       |        |
| 12/1/2006  | 0.012      |        |
| 6/21/2007  | 0.2        |        |
| 12/15/2007 | 0.14       |        |
| 6/22/2008  | 0.1        |        |
| 12/7/2008  | 0.043      |        |
| 7/11/2009  | 0.13       |        |
| 12/23/2009 | 0.17       |        |
| 6/24/2010  | 0.045      |        |
| 1/9/2011   | 0.11       |        |
| 7/11/2011  | 0.022      |        |
| 1/20/2012  | 0.043      |        |
| 7/13/2012  | 0.05       |        |
| 1/21/2013  | 0.11       |        |
| 7/20/2013  | 0.04       |        |
| 1/17/2014  | 0.082      |        |
| 7/12/2014  | 0.034      |        |
| 1/16/2015  | 0.029      |        |
| 7/15/2015  | 0.025      |        |
| 1/16/2016  | 0.026      |        |
| 6/22/2016  | 0.0374 (D) |        |
| 9/1/2016   | 0.86 (o)   |        |
| 2/28/2017  | 0.027      |        |
| 7/17/2017  | 0.022      |        |
| 9/20/2017  | 0.023      |        |
| 1/8/2018   | 0.022      |        |
| 3/27/2018  | 0.023      |        |
| 7/10/2018  | 0.024      |        |
| 10/8/2018  | 0.03       |        |
| 1/30/2019  |            | 0.024  |
| 3/27/2019  |            | 0.021  |
| 9/11/2019  |            | 0.022  |
| 3/10/2020  |            | 0.018  |
| 9/21/2020  |            | 0.023  |

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A     | GWA-3A |
|------------|------------|--------|
| 10/5/1999  | 0.031      |        |
| 11/12/1999 | 0.023      |        |
| 12/29/1999 | 0.033      |        |
| 2/17/2000  | 0.026      |        |
| 9/13/2000  | 0.044      |        |
| 11/10/2000 | 0.044      |        |
| 1/4/2001   | 0.043      |        |
| 12/11/2001 | 0.041      |        |
| 4/4/2002   | 0.038      |        |
| 12/6/2002  | 0.044      |        |
| 6/28/2003  | 0.045      |        |
| 12/13/2003 | 0.039      |        |
| 5/28/2004  | 0.042      |        |
| 12/10/2004 | 0.045      |        |
| 6/24/2005  | 0.042      |        |
| 12/13/2005 | 0.043      |        |
| 7/12/2006  | 0.043      |        |
| 12/1/2006  | 0.041      |        |
| 6/21/2007  | 0.043      |        |
| 12/15/2007 | 0.045      |        |
| 6/22/2008  | 0.05       |        |
| 12/6/2008  | 0.14 (o)   |        |
| 7/10/2009  | 0.046      |        |
| 12/23/2009 | 0.049      |        |
| 6/23/2010  | 0.043      |        |
| 1/8/2011   | 0.047      |        |
| 7/10/2011  | 0.035      |        |
| 1/19/2012  | 0.05       |        |
| 7/12/2012  | 0.042      |        |
| 1/21/2013  | 0.048      |        |
| 7/20/2013  | 0.047      |        |
| 1/17/2014  | 0.049      |        |
| 7/12/2014  | 0.043      |        |
| 1/15/2015  | 0.05       |        |
| 7/15/2015  | 0.044      |        |
| 1/16/2016  | 0.048      |        |
| 6/22/2016  | 0.0471 (D) |        |
| 8/31/2016  | 0.043      |        |
| 1/19/2017  | 0.052      |        |
| 7/18/2017  | 0.046      |        |
| 9/20/2017  | 0.053      |        |
| 1/9/2018   | 0.05       |        |
| 3/27/2018  | 0.054      |        |
| 7/10/2018  | 0.056      |        |
| 10/9/2018  | 0.061      |        |
| 1/30/2019  |            | 0.071  |
| 3/28/2019  |            | 0.068  |
| 9/12/2019  |            | 0.073  |
| 3/10/2020  |            | 0.082  |
| 4/2/2020   |            | 0.088  |
| 9/21/2020  |            | 0.083  |

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4  | GWA-4 |
|------------|--------|-------|
| 10/5/1999  | 0.013  |       |
| 11/12/1999 | 0.017  |       |
| 12/29/1999 | 0.027  |       |
| 2/17/2000  | 0.023  |       |
| 9/13/2000  | 0.022  |       |
| 11/10/2000 | 0.035  |       |
| 1/4/2001   | 0.032  |       |
| 12/11/2001 | 0.032  |       |
| 4/4/2002   | 0.03   |       |
| 12/6/2002  | 0.041  |       |
| 6/28/2003  | 0.035  |       |
| 12/13/2003 | 0.029  |       |
| 5/28/2004  | 0.033  |       |
| 12/10/2004 | 0.037  |       |
| 6/24/2005  | 0.034  |       |
| 12/13/2005 | 0.03   |       |
| 7/12/2006  | 0.03   |       |
| 12/1/2006  | 0.032  |       |
| 6/21/2007  | 0.03   |       |
| 12/15/2007 | 0.034  |       |
| 6/21/2008  | 0.037  |       |
| 12/6/2008  | 0.034  |       |
| 7/11/2009  | 0.037  |       |
| 12/23/2009 | 0.058  |       |
| 6/23/2010  | 0.046  |       |
| 1/8/2011   | 0.036  |       |
| 7/10/2011  | 0.031  |       |
| 1/19/2012  | 0.045  |       |
| 7/12/2012  | 0.039  |       |
| 1/21/2013  | 0.042  |       |
| 7/20/2013  | 0.054  |       |
| 1/17/2014  | 0.057  |       |
| 7/12/2014  | 0.042  |       |
| 1/15/2015  | 0.041  |       |
| 7/15/2015  | 0.04   |       |
| 1/16/2016  | 0.04   |       |
| 6/22/2016  | 0.0453 |       |
| 8/31/2016  | 0.041  |       |
| 1/19/2017  | 0.052  |       |
| 7/18/2017  | 0.037  |       |
| 9/21/2017  | 0.042  |       |
| 1/9/2018   | 0.043  |       |
| 3/27/2018  | 0.039  |       |
| 7/10/2018  | 0.043  |       |
| 10/8/2018  | 0.042  |       |
| 1/30/2019  |        | 0.04  |
| 3/28/2019  |        | 0.041 |
| 9/12/2019  |        | 0.044 |
| 3/10/2020  |        | 0.058 |
| 9/21/2020  |        | 0.052 |

# Prediction Limit

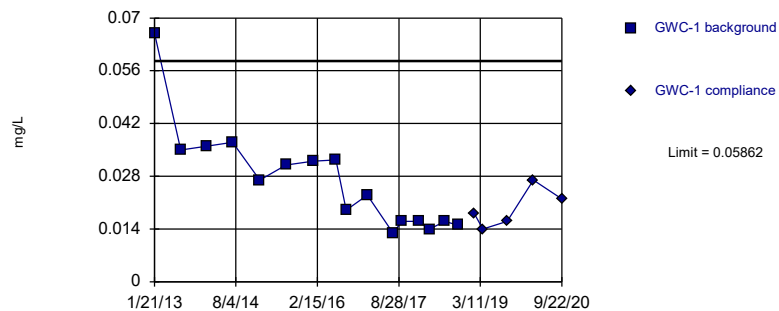
Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5    | GWA-5 |
|------------|----------|-------|
| 10/5/1999  | 0.1      |       |
| 11/12/1999 | 0.086    |       |
| 12/29/1999 | 0.12     |       |
| 2/17/2000  | 0.13     |       |
| 9/13/2000  | 0.18     |       |
| 11/10/2000 | 0.018    |       |
| 1/4/2001   | 0.23     |       |
| 12/11/2001 | 0.12     |       |
| 4/4/2002   | 0.094    |       |
| 12/6/2002  | 0.33 (o) |       |
| 6/28/2003  | 0.11     |       |
| 12/13/2003 | 0.057    |       |
| 5/28/2004  | 0.035    |       |
| 12/10/2004 | 0.04     |       |
| 6/24/2005  | 0.037    |       |
| 12/13/2005 | 0.039    |       |
| 7/12/2006  | 0.042    |       |
| 12/1/2006  | 0.044    |       |
| 6/21/2007  | 0.058    |       |
| 12/15/2007 | 0.073    |       |
| 6/22/2008  | 0.096    |       |
| 12/6/2008  | 0.094    |       |
| 7/11/2009  | 0.12     |       |
| 12/22/2009 | 0.089    |       |
| 6/23/2010  | 0.081    |       |
| 1/8/2011   | 0.097    |       |
| 7/10/2011  | 0.084    |       |
| 1/20/2012  | 0.099    |       |
| 7/12/2012  | 0.12     |       |
| 1/21/2013  | 0.095    |       |
| 7/20/2013  | 0.086    |       |
| 1/17/2014  | 0.14     |       |
| 7/12/2014  | 0.17     |       |
| 1/16/2015  | 0.12     |       |
| 7/15/2015  | 0.12     |       |
| 1/16/2016  | 0.12     |       |
| 6/22/2016  | 0.0839   |       |
| 8/31/2016  | 0.093    |       |
| 1/19/2017  | 0.079    |       |
| 7/19/2017  | 0.085    |       |
| 9/21/2017  | 0.1      |       |
| 1/9/2018   | 0.13     |       |
| 3/27/2018  | 0.18     |       |
| 7/10/2018  | 0.14     |       |
| 10/8/2018  | 0.11     |       |
| 1/30/2019  |          | 0.079 |
| 3/27/2019  |          | 0.12  |
| 9/12/2019  |          | 0.086 |
| 3/10/2020  |          | 0.081 |
| 9/22/2020  |          | 0.078 |

Within Limit

### Prediction Limit Intrawell Parametric

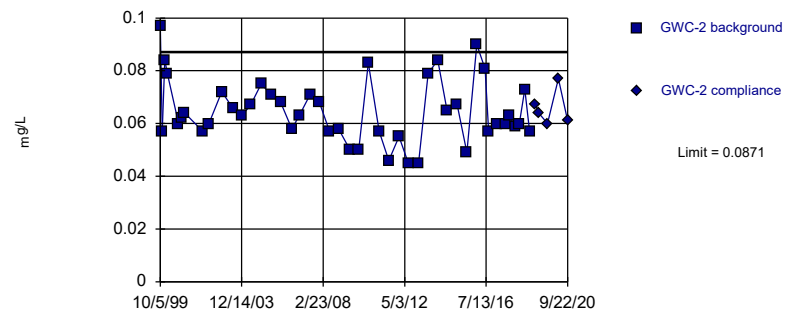


Background Data Summary (based on square root transformation): Mean=0.1593, Std. Dev.=0.03852, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8905, critical = 0.844. Kappa = 2.15 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

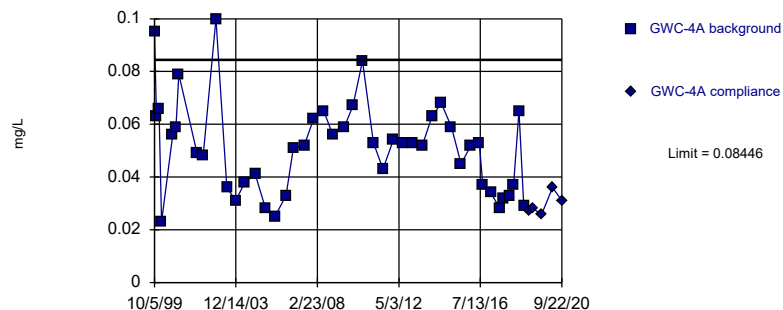


Background Data Summary: Mean=0.0647, Std. Dev.=0.01194, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.926. Kappa = 1.876 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric

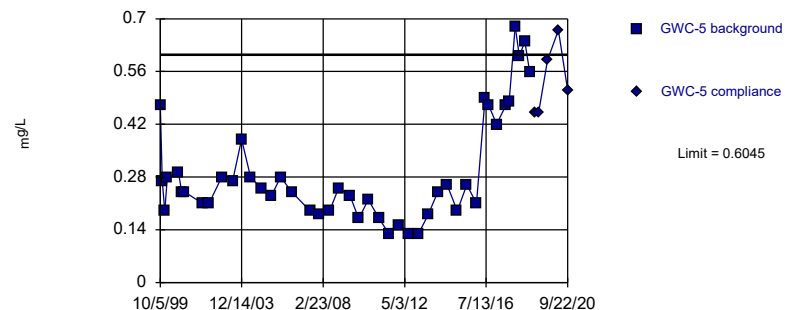


Background Data Summary: Mean=0.05131, Std. Dev.=0.01767, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.926. Kappa = 1.876 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.326, Std. Dev.=0.4377, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9296, critical = 0.924. Kappa = 1.88 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Barium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1  | GWC-1 |
|------------|--------|-------|
| 10/5/1999  | 0.096  |       |
| 11/12/1999 | 0.085  |       |
| 12/29/1999 | 0.1    |       |
| 2/17/2000  | 0.072  |       |
| 9/13/2000  | 0.15   |       |
| 11/10/2000 | 0.15   |       |
| 1/4/2001   | 0.15   |       |
| 12/11/2001 | 0.14   |       |
| 4/4/2002   | 0.14   |       |
| 12/6/2002  | 0.14   |       |
| 6/28/2003  | 0.12   |       |
| 12/13/2003 | 0.12   |       |
| 5/28/2004  | 0.12   |       |
| 12/10/2004 | 0.13   |       |
| 6/24/2005  | 0.1    |       |
| 12/13/2005 | 0.096  |       |
| 7/12/2006  | 0.083  |       |
| 12/1/2006  | 0.084  |       |
| 6/21/2007  | 0.087  |       |
| 12/15/2007 | 0.11   |       |
| 6/21/2008  | 0.093  |       |
| 12/6/2008  | 0.11   |       |
| 7/11/2009  | 0.064  |       |
| 12/23/2009 | 0.052  |       |
| 6/23/2010  | 0.051  |       |
| 1/8/2011   | 0.052  |       |
| 7/10/2011  | 0.036  |       |
| 1/20/2012  | 0.065  |       |
| 7/12/2012  | 0.074  |       |
| 1/21/2013  | 0.066  |       |
| 7/20/2013  | 0.035  |       |
| 1/17/2014  | 0.036  |       |
| 7/12/2014  | 0.037  |       |
| 1/16/2015  | 0.027  |       |
| 7/15/2015  | 0.031  |       |
| 1/16/2016  | 0.032  |       |
| 6/22/2016  | 0.0323 |       |
| 8/31/2016  | 0.019  |       |
| 1/23/2017  | 0.023  |       |
| 7/19/2017  | 0.013  |       |
| 9/21/2017  | 0.016  |       |
| 1/9/2018   | 0.016  |       |
| 3/28/2018  | 0.014  |       |
| 7/11/2018  | 0.016  |       |
| 10/9/2018  | 0.015  |       |
| 1/30/2019  |        | 0.018 |
| 3/28/2019  |        | 0.014 |
| 9/12/2019  |        | 0.016 |
| 3/11/2020  |        | 0.027 |
| 9/22/2020  |        | 0.022 |

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2  | GWC-2 |
|------------|--------|-------|
| 10/5/1999  | 0.097  |       |
| 11/12/1999 | 0.057  |       |
| 12/29/1999 | 0.084  |       |
| 2/17/2000  | 0.079  |       |
| 9/13/2000  | 0.06   |       |
| 11/10/2000 | 0.062  |       |
| 1/4/2001   | 0.064  |       |
| 12/11/2001 | 0.057  |       |
| 4/4/2002   | 0.06   |       |
| 12/6/2002  | 0.072  |       |
| 6/28/2003  | 0.066  |       |
| 12/13/2003 | 0.063  |       |
| 5/28/2004  | 0.067  |       |
| 12/10/2004 | 0.075  |       |
| 6/24/2005  | 0.071  |       |
| 12/13/2005 | 0.068  |       |
| 7/12/2006  | 0.058  |       |
| 12/1/2006  | 0.063  |       |
| 6/21/2007  | 0.071  |       |
| 12/15/2007 | 0.068  |       |
| 6/22/2008  | 0.057  |       |
| 12/6/2008  | 0.058  |       |
| 7/11/2009  | 0.05   |       |
| 12/23/2009 | 0.05   |       |
| 6/23/2010  | 0.083  |       |
| 1/8/2011   | 0.057  |       |
| 7/10/2011  | 0.046  |       |
| 1/20/2012  | 0.055  |       |
| 7/12/2012  | 0.045  |       |
| 1/21/2013  | 0.045  |       |
| 7/20/2013  | 0.079  |       |
| 1/17/2014  | 0.084  |       |
| 7/12/2014  | 0.065  |       |
| 1/15/2015  | 0.067  |       |
| 7/15/2015  | 0.049  |       |
| 1/17/2016  | 0.09   |       |
| 6/22/2016  | 0.0806 |       |
| 8/31/2016  | 0.057  |       |
| 1/24/2017  | 0.06   |       |
| 7/19/2017  | 0.06   |       |
| 9/21/2017  | 0.063  |       |
| 1/9/2018   | 0.059  |       |
| 3/29/2018  | 0.06   |       |
| 7/10/2018  | 0.073  |       |
| 10/9/2018  | 0.057  |       |
| 1/31/2019  |        | 0.067 |
| 3/28/2019  |        | 0.064 |
| 9/12/2019  |        | 0.06  |
| 3/31/2020  |        | 0.077 |
| 9/22/2020  |        | 0.061 |



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A | GWC-4A |
|------------|--------|--------|
| 10/5/1999  | 0.095  |        |
| 11/12/1999 | 0.063  |        |
| 12/29/1999 | 0.066  |        |
| 2/17/2000  | 0.023  |        |
| 9/13/2000  | 0.056  |        |
| 11/10/2000 | 0.059  |        |
| 1/4/2001   | 0.079  |        |
| 12/11/2001 | 0.049  |        |
| 4/4/2002   | 0.048  |        |
| 12/6/2002  | 0.1    |        |
| 6/28/2003  | 0.036  |        |
| 12/13/2003 | 0.031  |        |
| 5/28/2004  | 0.038  |        |
| 12/10/2004 | 0.041  |        |
| 6/24/2005  | 0.028  |        |
| 12/13/2005 | 0.025  |        |
| 7/12/2006  | 0.033  |        |
| 12/1/2006  | 0.051  |        |
| 6/21/2007  | 0.052  |        |
| 12/15/2007 | 0.062  |        |
| 6/21/2008  | 0.065  |        |
| 12/6/2008  | 0.056  |        |
| 7/11/2009  | 0.059  |        |
| 12/23/2009 | 0.067  |        |
| 6/23/2010  | 0.084  |        |
| 1/8/2011   | 0.053  |        |
| 7/10/2011  | 0.043  |        |
| 1/20/2012  | 0.054  |        |
| 7/12/2012  | 0.053  |        |
| 1/21/2013  | 0.053  |        |
| 7/20/2013  | 0.052  |        |
| 1/17/2014  | 0.063  |        |
| 7/11/2014  | 0.068  |        |
| 1/16/2015  | 0.059  |        |
| 7/15/2015  | 0.045  |        |
| 1/17/2016  | 0.052  |        |
| 6/22/2016  | 0.0528 |        |
| 8/31/2016  | 0.037  |        |
| 1/25/2017  | 0.034  |        |
| 7/20/2017  | 0.028  |        |
| 9/21/2017  | 0.032  |        |
| 1/9/2018   | 0.033  |        |
| 3/28/2018  | 0.037  |        |
| 7/10/2018  | 0.065  |        |
| 10/9/2018  | 0.029  |        |
| 1/30/2019  |        | 0.027  |
| 3/28/2019  |        | 0.028  |
| 9/12/2019  |        | 0.026  |
| 3/31/2020  |        | 0.036  |
| 9/22/2020  |        | 0.031  |

# Prediction Limit

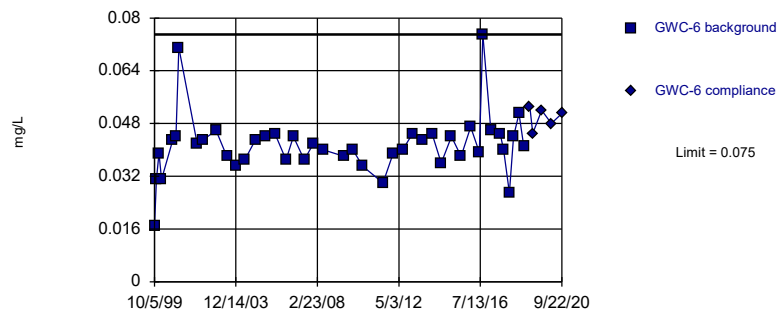
Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5     | GWC-5 |
|------------|-----------|-------|
| 10/5/1999  | 0.47      |       |
| 11/12/1999 | 0.27      |       |
| 12/29/1999 | 0.19      |       |
| 2/17/2000  | 0.28      |       |
| 9/13/2000  | 0.29      |       |
| 11/10/2000 | 0.24      |       |
| 1/4/2001   | 0.24      |       |
| 12/11/2001 | 0.21      |       |
| 4/4/2002   | 0.21      |       |
| 12/6/2002  | 0.28      |       |
| 6/28/2003  | 0.27      |       |
| 12/13/2003 | 0.38      |       |
| 5/28/2004  | 0.28      |       |
| 12/10/2004 | 0.25      |       |
| 6/24/2005  | 0.23      |       |
| 12/13/2005 | 0.28      |       |
| 7/12/2006  | 0.24      |       |
| 12/1/2006  | 0.019 (o) |       |
| 6/21/2007  | 0.19      |       |
| 12/15/2007 | 0.18      |       |
| 6/21/2008  | 0.19      |       |
| 12/7/2008  | 0.25      |       |
| 7/11/2009  | 0.23      |       |
| 12/23/2009 | 0.17      |       |
| 6/23/2010  | 0.22      |       |
| 1/8/2011   | 0.17      |       |
| 7/10/2011  | 0.13      |       |
| 1/20/2012  | 0.15      |       |
| 7/12/2012  | 0.13      |       |
| 1/21/2013  | 0.13      |       |
| 7/20/2013  | 0.18      |       |
| 1/17/2014  | 0.24      |       |
| 7/11/2014  | 0.26      |       |
| 1/16/2015  | 0.19      |       |
| 7/15/2015  | 0.26      |       |
| 1/16/2016  | 0.21      |       |
| 6/23/2016  | 0.491     |       |
| 9/1/2016   | 0.47      |       |
| 1/24/2017  | 0.42      |       |
| 7/20/2017  | 0.47      |       |
| 9/21/2017  | 0.48      |       |
| 1/10/2018  | 0.68      |       |
| 3/28/2018  | 0.6       |       |
| 7/11/2018  | 0.64      |       |
| 10/9/2018  | 0.56      |       |
| 1/31/2019  |           | 0.45  |
| 3/28/2019  |           | 0.45  |
| 9/12/2019  |           | 0.59  |
| 3/31/2020  |           | 0.67  |
| 9/22/2020  |           | 0.51  |

Within Limit

### Prediction Limit Intrawell Non-parametric

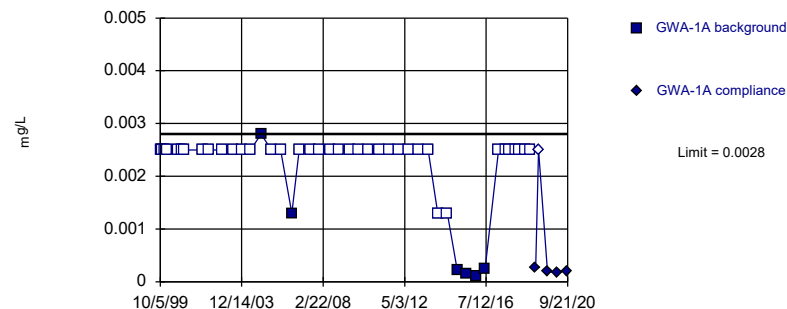


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 43 background values. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Barium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric

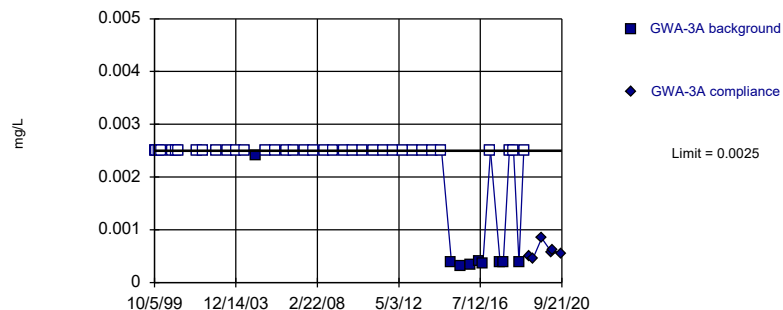


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric

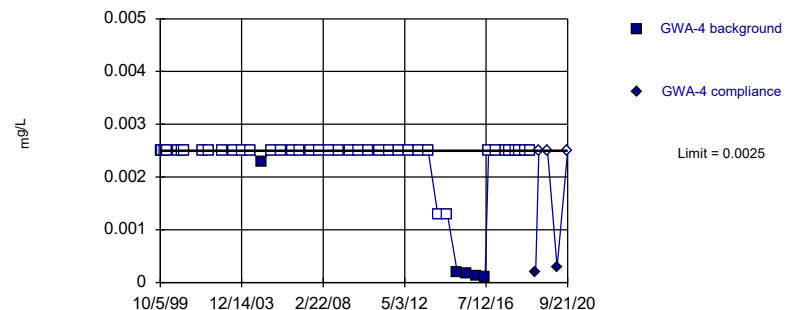


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 80% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6    | GWC-6 |
|------------|----------|-------|
| 10/5/1999  | 0.017    |       |
| 11/12/1999 | 0.031    |       |
| 12/29/1999 | 0.039    |       |
| 2/17/2000  | 0.031    |       |
| 9/13/2000  | 0.043    |       |
| 11/10/2000 | 0.044    |       |
| 1/4/2001   | 0.071    |       |
| 12/11/2001 | 0.042    |       |
| 4/4/2002   | 0.043    |       |
| 12/6/2002  | 0.046    |       |
| 6/28/2003  | 0.038    |       |
| 12/13/2003 | 0.035    |       |
| 5/28/2004  | 0.037    |       |
| 12/10/2004 | 0.043    |       |
| 6/24/2005  | 0.044    |       |
| 12/13/2005 | 0.045    |       |
| 7/12/2006  | 0.037    |       |
| 12/1/2006  | 0.044    |       |
| 6/21/2007  | 0.037    |       |
| 12/15/2007 | 0.042    |       |
| 6/22/2008  | 0.04     |       |
| 12/7/2008  | 0.12 (o) |       |
| 7/11/2009  | 0.038    |       |
| 12/23/2009 | 0.04     |       |
| 6/24/2010  | 0.035    |       |
| 7/11/2011  | 0.03     |       |
| 1/20/2012  | 0.039    |       |
| 7/13/2012  | 0.04     |       |
| 1/21/2013  | 0.045    |       |
| 7/20/2013  | 0.043    |       |
| 1/17/2014  | 0.045    |       |
| 7/12/2014  | 0.036    |       |
| 1/16/2015  | 0.044    |       |
| 7/15/2015  | 0.038    |       |
| 1/16/2016  | 0.047    |       |
| 6/23/2016  | 0.0393   |       |
| 9/1/2016   | 0.075    |       |
| 1/27/2017  | 0.046    |       |
| 7/20/2017  | 0.045    |       |
| 9/22/2017  | 0.04     |       |
| 1/10/2018  | 0.027    |       |
| 3/29/2018  | 0.044    |       |
| 7/11/2018  | 0.051    |       |
| 10/9/2018  | 0.041    |       |
| 1/31/2019  |          | 0.053 |
| 3/28/2019  |          | 0.045 |
| 9/12/2019  |          | 0.052 |
| 3/11/2020  |          | 0.048 |
| 9/22/2020  |          | 0.051 |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A       | GWA-1A      |
|------------|--------------|-------------|
| 10/5/1999  | <0.0025      |             |
| 11/12/1999 | <0.0025      |             |
| 12/29/1999 | <0.0025      |             |
| 2/17/2000  | <0.0025      |             |
| 9/13/2000  | <0.0025      |             |
| 11/10/2000 | <0.0025      |             |
| 1/4/2001   | <0.0025      |             |
| 12/11/2001 | <0.0025      |             |
| 4/4/2002   | <0.0025      |             |
| 12/6/2002  | <0.0025      |             |
| 6/28/2003  | <0.0025      |             |
| 12/13/2003 | <0.0025      |             |
| 5/28/2004  | <0.0025      |             |
| 12/10/2004 | 0.0028       |             |
| 6/24/2005  | <0.0025      |             |
| 12/13/2005 | <0.0025      |             |
| 7/12/2006  | 0.0013       |             |
| 12/1/2006  | <0.0025      |             |
| 6/21/2007  | <0.0025      |             |
| 12/15/2007 | <0.0025      |             |
| 6/22/2008  | <0.0025      |             |
| 12/7/2008  | <0.0025      |             |
| 7/11/2009  | <0.0025      |             |
| 12/23/2009 | <0.0025      |             |
| 6/24/2010  | <0.0025      |             |
| 1/9/2011   | <0.0025      |             |
| 7/11/2011  | <0.0025      |             |
| 1/20/2012  | <0.0025      |             |
| 7/13/2012  | <0.0025      |             |
| 1/21/2013  | <0.0025      |             |
| 7/20/2013  | <0.0025      |             |
| 1/17/2014  | <0.0013 (J)  |             |
| 7/12/2014  | <0.0013 (J)  |             |
| 1/16/2015  | 0.00022 (J)  |             |
| 7/15/2015  | 0.00015 (J)  |             |
| 1/16/2016  | 0.00011 (J)  |             |
| 6/22/2016  | 0.00025 (JD) |             |
| 9/1/2016   | 0.0084 (o)   |             |
| 2/28/2017  | <0.0025      |             |
| 7/17/2017  | <0.0025      |             |
| 9/20/2017  | <0.0025      |             |
| 1/8/2018   | <0.0025      |             |
| 3/27/2018  | <0.0025      |             |
| 7/10/2018  | <0.0025      |             |
| 10/8/2018  | <0.0025      |             |
| 1/30/2019  |              | 0.00026 (J) |
| 3/27/2019  |              | <0.0025     |
| 9/11/2019  |              | 0.00019 (J) |
| 3/10/2020  |              | 0.00018 (J) |
| 9/21/2020  |              | 0.0002 (J)  |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A      | GWA-3A      |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0024      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | <0.0025     |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/22/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/10/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/19/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0025     |             |
| 7/12/2014  | <0.0025     |             |
| 1/15/2015  | 0.00039 (J) |             |
| 7/15/2015  | 0.00031 (J) |             |
| 1/16/2016  | 0.00034 (J) |             |
| 6/22/2016  | 0.0004 (J)  |             |
| 8/31/2016  | 0.00035 (J) |             |
| 1/19/2017  | <0.0025     |             |
| 7/18/2017  | 0.00038 (J) |             |
| 9/20/2017  | 0.00039 (J) |             |
| 1/9/2018   | <0.0025     |             |
| 3/27/2018  | <0.0025     |             |
| 7/10/2018  | 0.00038 (J) |             |
| 10/9/2018  | <0.0025     |             |
| 1/30/2019  |             | 0.00051 (J) |
| 3/28/2019  |             | 0.00046 (J) |
| 9/12/2019  |             | 0.00084 (J) |
| 3/10/2020  |             | 0.00058 (J) |
| 4/2/2020   |             | 0.00062 (J) |
| 9/21/2020  |             | 0.00054 (J) |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

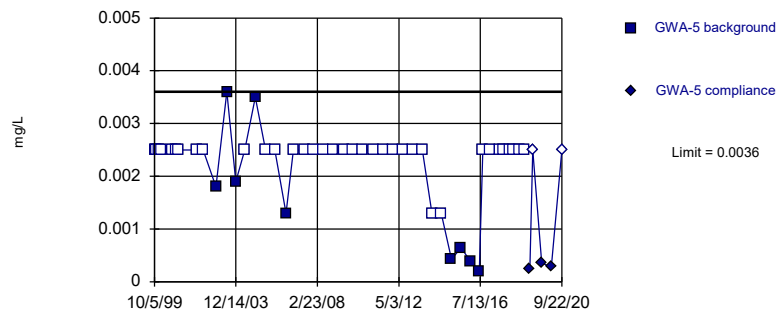
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4       | GWA-4       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0023      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | <0.0025     |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/21/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/19/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J) |             |
| 1/15/2015  | 0.0002 (J)  |             |
| 7/15/2015  | 0.00018 (J) |             |
| 1/16/2016  | 0.00013 (J) |             |
| 6/22/2016  | 0.0001 (J)  |             |
| 8/31/2016  | <0.0025     |             |
| 1/19/2017  | <0.0025     |             |
| 7/18/2017  | <0.0025     |             |
| 9/21/2017  | <0.0025     |             |
| 1/9/2018   | <0.0025     |             |
| 3/27/2018  | <0.0025     |             |
| 7/10/2018  | <0.0025     |             |
| 10/8/2018  | <0.0025     |             |
| 1/30/2019  |             | 0.00019 (J) |
| 3/28/2019  |             | <0.0025     |
| 9/12/2019  |             | <0.0025     |
| 3/10/2020  |             | 0.00029 (J) |
| 9/21/2020  |             | <0.0025     |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



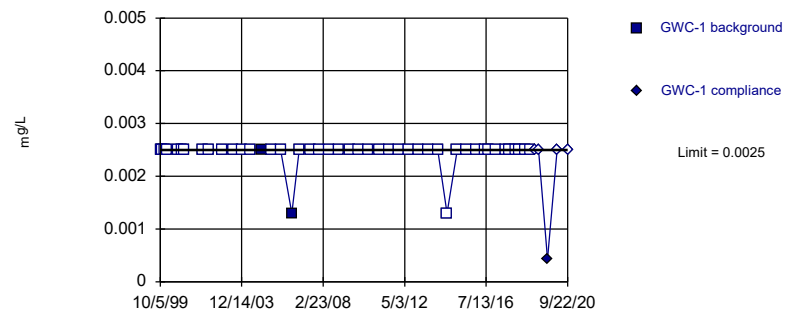
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 80% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



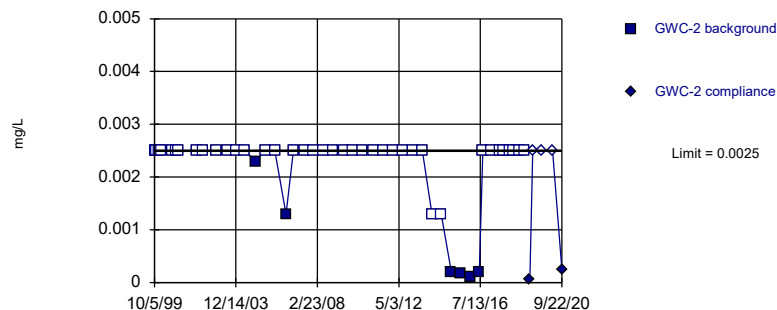
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 95.56% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



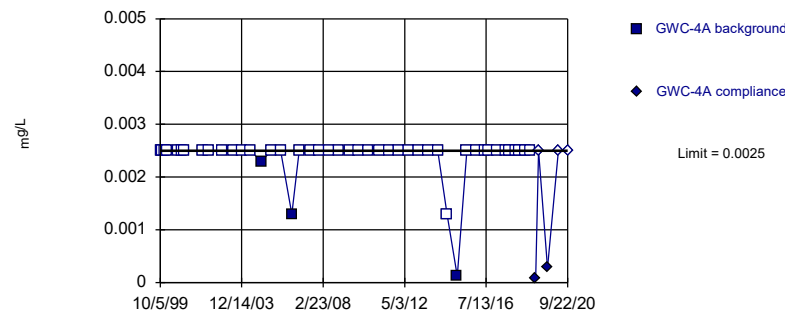
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5       | GWA-5       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | 0.0018      |             |
| 6/28/2003  | 0.0036      |             |
| 12/13/2003 | 0.0019      |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0035      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | 0.0013      |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/22/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/22/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/20/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J) |             |
| 1/16/2015  | 0.00043 (J) |             |
| 7/15/2015  | 0.00064 (J) |             |
| 1/16/2016  | 0.00039 (J) |             |
| 6/22/2016  | 0.0002 (J)  |             |
| 8/31/2016  | <0.0025     |             |
| 1/19/2017  | <0.0025     |             |
| 7/19/2017  | <0.0025     |             |
| 9/21/2017  | <0.0025     |             |
| 1/9/2018   | <0.0025     |             |
| 3/27/2018  | <0.0025     |             |
| 7/10/2018  | <0.0025     |             |
| 10/8/2018  | <0.0025     |             |
| 1/30/2019  |             | 0.00024 (J) |
| 3/27/2019  |             | <0.0025     |
| 9/12/2019  |             | 0.00036 (J) |
| 3/10/2020  |             | 0.00028 (J) |
| 9/22/2020  |             | <0.0025     |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1       | GWC-1       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0025      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | 0.0013      |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/21/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/20/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0025     |             |
| 7/12/2014  | <0.0013 (J) |             |
| 1/16/2015  | <0.0025     |             |
| 7/15/2015  | <0.0025     |             |
| 1/16/2016  | <0.0025     |             |
| 6/22/2016  | <0.0025     |             |
| 8/31/2016  | <0.0025     |             |
| 1/23/2017  | <0.0025     |             |
| 7/19/2017  | <0.0025     |             |
| 9/21/2017  | <0.0025     |             |
| 1/9/2018   | <0.0025     |             |
| 3/28/2018  | <0.0025     |             |
| 7/11/2018  | <0.0025     |             |
| 10/9/2018  | <0.0025     |             |
| 1/30/2019  |             | <0.0025     |
| 3/28/2019  |             | <0.0025     |
| 9/12/2019  |             | 0.00043 (J) |
| 3/11/2020  |             | <0.0025     |
| 9/22/2020  |             | <0.0025     |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2       | GWC-2       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0023      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | 0.0013      |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/22/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/20/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J) |             |
| 1/15/2015  | 0.00019 (J) |             |
| 7/15/2015  | 0.00018 (J) |             |
| 1/17/2016  | 0.00011 (J) |             |
| 6/22/2016  | 0.0002 (J)  |             |
| 8/31/2016  | <0.0025     |             |
| 1/24/2017  | <0.0025     |             |
| 7/19/2017  | <0.0025     |             |
| 9/21/2017  | <0.0025     |             |
| 1/9/2018   | <0.0025     |             |
| 3/29/2018  | <0.0025     |             |
| 7/10/2018  | <0.0025     |             |
| 10/9/2018  | <0.0025     |             |
| 1/31/2019  |             | 6.5E-05 (J) |
| 3/28/2019  |             | <0.0025     |
| 9/12/2019  |             | <0.0025     |
| 3/31/2020  |             | <0.0025     |
| 9/22/2020  |             | 0.00025 (J) |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

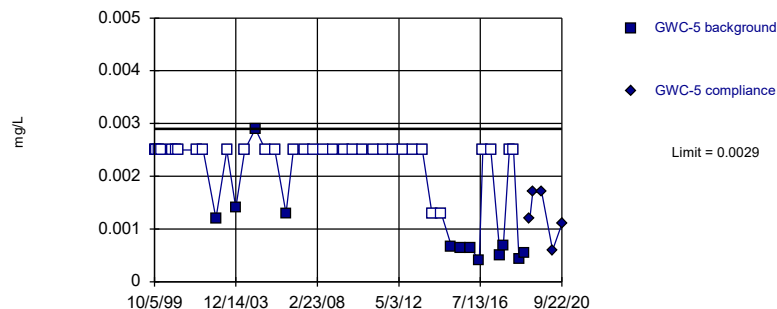
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A      | GWC-4A      |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0023      |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | 0.0013      |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/21/2008  | <0.0025     |             |
| 12/6/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/23/2010  | <0.0025     |             |
| 1/8/2011   | <0.0025     |             |
| 7/10/2011  | <0.0025     |             |
| 1/20/2012  | <0.0025     |             |
| 7/12/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0025     |             |
| 7/11/2014  | <0.0013 (J) |             |
| 1/16/2015  | 0.00012 (J) |             |
| 7/15/2015  | <0.0025     |             |
| 1/17/2016  | <0.0025     |             |
| 6/22/2016  | <0.0025     |             |
| 8/31/2016  | <0.0025     |             |
| 1/25/2017  | <0.0025     |             |
| 7/20/2017  | <0.0025     |             |
| 9/21/2017  | <0.0025     |             |
| 1/9/2018   | <0.0025     |             |
| 3/28/2018  | <0.0025     |             |
| 7/10/2018  | <0.0025     |             |
| 10/9/2018  | <0.0025     |             |
| 1/30/2019  |             | 7E-05 (J)   |
| 3/28/2019  |             | <0.0025     |
| 9/12/2019  |             | 0.00028 (J) |
| 3/31/2020  |             | <0.0025     |
| 9/22/2020  |             | <0.0025     |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



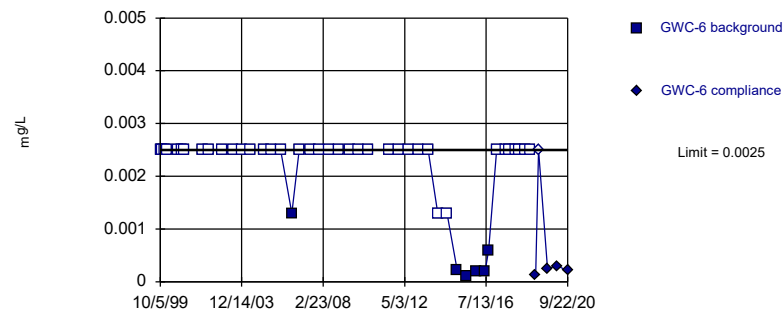
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



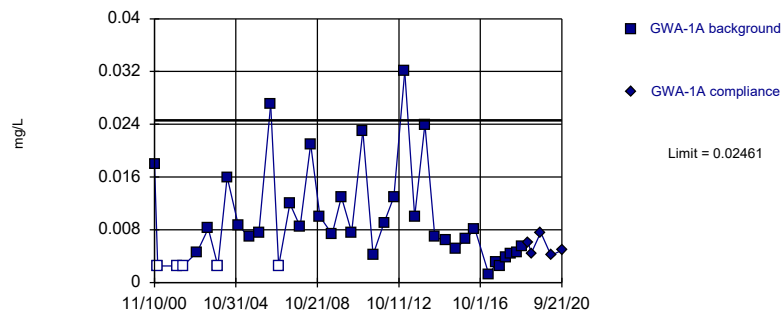
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Beryllium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Parametric



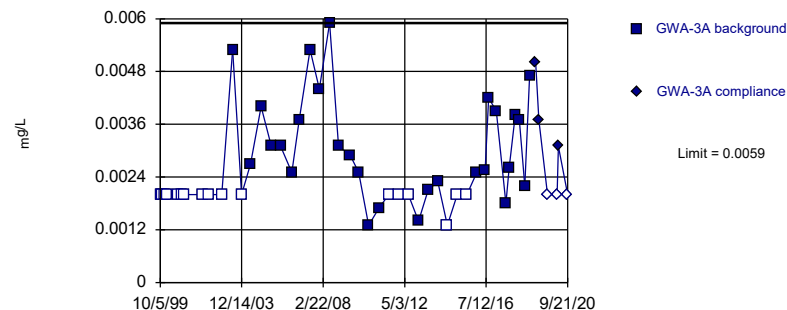
Background Data Summary (based on square root transformation): Mean=0.08981, Std. Dev.=0.0353, n=39, 12.82% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.917. Kappa = 1.9 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. 37.78% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5       | GWC-5      |
|------------|-------------|------------|
| 10/5/1999  | <0.0025     |            |
| 11/12/1999 | <0.0025     |            |
| 12/29/1999 | <0.0025     |            |
| 2/17/2000  | <0.0025     |            |
| 9/13/2000  | <0.0025     |            |
| 11/10/2000 | <0.0025     |            |
| 1/4/2001   | <0.0025     |            |
| 12/11/2001 | <0.0025     |            |
| 4/4/2002   | <0.0025     |            |
| 12/6/2002  | 0.0012      |            |
| 6/28/2003  | <0.0025     |            |
| 12/13/2003 | 0.0014      |            |
| 5/28/2004  | <0.0025     |            |
| 12/10/2004 | 0.0029      |            |
| 6/24/2005  | <0.0025     |            |
| 12/13/2005 | <0.0025     |            |
| 7/12/2006  | 0.0013      |            |
| 12/1/2006  | <0.0025     |            |
| 6/21/2007  | <0.0025     |            |
| 12/15/2007 | <0.0025     |            |
| 6/21/2008  | <0.0025     |            |
| 12/7/2008  | <0.0025     |            |
| 7/11/2009  | <0.0025     |            |
| 12/23/2009 | <0.0025     |            |
| 6/23/2010  | <0.0025     |            |
| 1/8/2011   | <0.0025     |            |
| 7/10/2011  | <0.0025     |            |
| 1/20/2012  | <0.0025     |            |
| 7/12/2012  | <0.0025     |            |
| 1/21/2013  | <0.0025     |            |
| 7/20/2013  | <0.0025     |            |
| 1/17/2014  | <0.0013 (J) |            |
| 7/11/2014  | <0.0013 (J) |            |
| 1/16/2015  | 0.00067 (J) |            |
| 7/15/2015  | 0.00065 (J) |            |
| 1/16/2016  | 0.00065 (J) |            |
| 6/23/2016  | 0.0004 (J)  |            |
| 9/1/2016   | <0.0025     |            |
| 1/24/2017  | <0.0025     |            |
| 7/20/2017  | 0.00049 (J) |            |
| 9/21/2017  | 0.00068 (J) |            |
| 1/10/2018  | <0.0025     |            |
| 3/28/2018  | <0.0025     |            |
| 7/11/2018  | 0.00043 (J) |            |
| 10/9/2018  | 0.00054 (J) |            |
| 1/31/2019  |             | 0.0012 (J) |
| 3/28/2019  |             | 0.0017 (J) |
| 9/12/2019  |             | 0.0017     |
| 3/31/2020  |             | 0.0006 (J) |
| 9/22/2020  |             | 0.0011 (J) |

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6       | GWC-6       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0025     |             |
| 11/12/1999 | <0.0025     |             |
| 12/29/1999 | <0.0025     |             |
| 2/17/2000  | <0.0025     |             |
| 9/13/2000  | <0.0025     |             |
| 11/10/2000 | <0.0025     |             |
| 1/4/2001   | <0.0025     |             |
| 12/11/2001 | <0.0025     |             |
| 4/4/2002   | <0.0025     |             |
| 12/6/2002  | <0.0025     |             |
| 6/28/2003  | <0.0025     |             |
| 12/13/2003 | <0.0025     |             |
| 5/28/2004  | <0.0025     |             |
| 12/10/2004 | 0.0058 (o)  |             |
| 2/5/2005   | <0.0025     |             |
| 6/24/2005  | <0.0025     |             |
| 12/13/2005 | <0.0025     |             |
| 7/12/2006  | 0.0013      |             |
| 12/1/2006  | <0.0025     |             |
| 6/21/2007  | <0.0025     |             |
| 12/15/2007 | <0.0025     |             |
| 6/22/2008  | <0.0025     |             |
| 12/7/2008  | <0.0025     |             |
| 7/11/2009  | <0.0025     |             |
| 12/23/2009 | <0.0025     |             |
| 6/24/2010  | <0.0025     |             |
| 7/11/2011  | <0.0025     |             |
| 1/20/2012  | <0.0025     |             |
| 7/13/2012  | <0.0025     |             |
| 1/21/2013  | <0.0025     |             |
| 7/20/2013  | <0.0025     |             |
| 1/17/2014  | <0.0013 (J) |             |
| 7/12/2014  | <0.0013 (J) |             |
| 1/16/2015  | 0.00021 (J) |             |
| 7/15/2015  | 0.00011 (J) |             |
| 1/16/2016  | 0.00019 (J) |             |
| 6/23/2016  | 0.0002 (J)  |             |
| 9/1/2016   | 0.0006 (J)  |             |
| 1/27/2017  | <0.0025     |             |
| 7/20/2017  | <0.0025     |             |
| 9/22/2017  | <0.0025     |             |
| 1/10/2018  | <0.0025     |             |
| 3/29/2018  | <0.0025     |             |
| 7/11/2018  | <0.0025     |             |
| 10/9/2018  | <0.0025     |             |
| 1/31/2019  |             | 0.00012 (J) |
| 3/28/2019  |             | <0.0025     |
| 9/12/2019  |             | 0.00025 (J) |
| 3/11/2020  |             | 0.0003 (J)  |
| 9/22/2020  |             | 0.00021 (J) |

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A      | GWA-1A |
|------------|-------------|--------|
| 10/5/1999  | 0.023       |        |
| 11/12/1999 | 0.03        |        |
| 12/29/1999 | 0.059       |        |
| 2/17/2000  | 0.048       |        |
| 9/13/2000  | <0.0025     |        |
| 11/10/2000 | 0.018       |        |
| 1/4/2001   | <0.0025     |        |
| 12/11/2001 | <0.0025     |        |
| 4/4/2002   | <0.0025     |        |
| 12/6/2002  | 0.0046      |        |
| 6/28/2003  | 0.0082      |        |
| 12/13/2003 | <0.0025     |        |
| 5/28/2004  | 0.016       |        |
| 12/10/2004 | 0.0087      |        |
| 6/24/2005  | 0.0069      |        |
| 12/13/2005 | 0.0075      |        |
| 7/12/2006  | 0.027       |        |
| 12/1/2006  | <0.0025     |        |
| 6/21/2007  | 0.012       |        |
| 12/15/2007 | 0.0085      |        |
| 6/22/2008  | 0.021       |        |
| 12/7/2008  | 0.01        |        |
| 7/11/2009  | 0.0073      |        |
| 12/23/2009 | 0.013       |        |
| 6/24/2010  | 0.0076      |        |
| 1/9/2011   | 0.023       |        |
| 7/11/2011  | 0.0042      |        |
| 1/20/2012  | 0.009       |        |
| 7/13/2012  | 0.013       |        |
| 1/21/2013  | 0.032       |        |
| 7/20/2013  | 0.01        |        |
| 1/17/2014  | 0.024       |        |
| 7/12/2014  | 0.0069      |        |
| 1/16/2015  | 0.0064      |        |
| 7/15/2015  | 0.0051      |        |
| 1/16/2016  | 0.0066      |        |
| 6/22/2016  | 0.00815 (D) |        |
| 9/1/2016   | 0.12 (o)    |        |
| 2/28/2017  | 0.0012 (J)  |        |
| 7/17/2017  | 0.003       |        |
| 9/20/2017  | 0.0025      |        |
| 1/8/2018   | 0.0038      |        |
| 3/27/2018  | 0.0044      |        |
| 7/10/2018  | 0.0045      |        |
| 10/8/2018  | 0.0054      |        |
| 1/30/2019  |             | 0.0061 |
| 3/27/2019  |             | 0.0044 |
| 9/11/2019  |             | 0.0076 |
| 3/10/2020  |             | 0.0041 |
| 9/21/2020  |             | 0.0049 |



# Prediction Limit

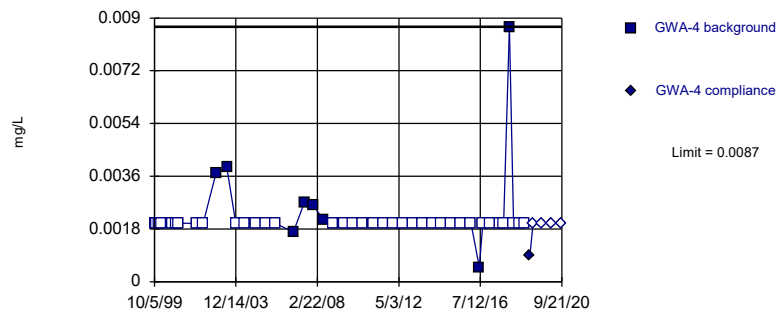
Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A       | GWA-3A |
|------------|--------------|--------|
| 10/5/1999  | <0.002       |        |
| 11/12/1999 | <0.002       |        |
| 12/29/1999 | <0.002       |        |
| 2/17/2000  | <0.002       |        |
| 9/13/2000  | <0.002       |        |
| 11/10/2000 | <0.002       |        |
| 1/4/2001   | <0.002       |        |
| 12/11/2001 | <0.002       |        |
| 4/4/2002   | <0.002       |        |
| 12/6/2002  | <0.002       |        |
| 6/28/2003  | 0.0053       |        |
| 12/13/2003 | <0.002       |        |
| 5/28/2004  | 0.0027       |        |
| 12/10/2004 | 0.004        |        |
| 6/24/2005  | 0.0031       |        |
| 12/13/2005 | 0.0031       |        |
| 7/12/2006  | 0.0025       |        |
| 12/1/2006  | 0.0037       |        |
| 6/21/2007  | 0.0053       |        |
| 12/15/2007 | 0.0044       |        |
| 6/22/2008  | 0.0059       |        |
| 12/6/2008  | 0.0031       |        |
| 7/10/2009  | 0.0029       |        |
| 12/23/2009 | 0.0025       |        |
| 6/23/2010  | 0.0013       |        |
| 1/8/2011   | 0.0017       |        |
| 7/10/2011  | <0.002       |        |
| 1/19/2012  | <0.002       |        |
| 7/12/2012  | <0.002       |        |
| 1/21/2013  | 0.0014       |        |
| 7/20/2013  | 0.0021       |        |
| 1/17/2014  | 0.0023       |        |
| 7/12/2014  | <0.0013 (J)  |        |
| 1/15/2015  | <0.002       |        |
| 7/15/2015  | <0.002       |        |
| 1/16/2016  | 0.0025       |        |
| 6/22/2016  | 0.00255 (JD) |        |
| 8/31/2016  | 0.0042       |        |
| 1/19/2017  | 0.0039       |        |
| 7/18/2017  | 0.0018 (J)   |        |
| 9/20/2017  | 0.0026       |        |
| 1/9/2018   | 0.0038       |        |
| 3/27/2018  | 0.0037       |        |
| 7/10/2018  | 0.0022 (J)   |        |
| 10/9/2018  | 0.0047       |        |
| 1/30/2019  |              | 0.005  |
| 3/28/2019  |              | 0.0037 |
| 9/12/2019  |              | <0.002 |
| 3/10/2020  |              | <0.002 |
| 4/2/2020   |              | 0.0031 |
| 9/21/2020  |              | <0.002 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.  
Within Limit

### Prediction Limit Intrawell Non-parametric

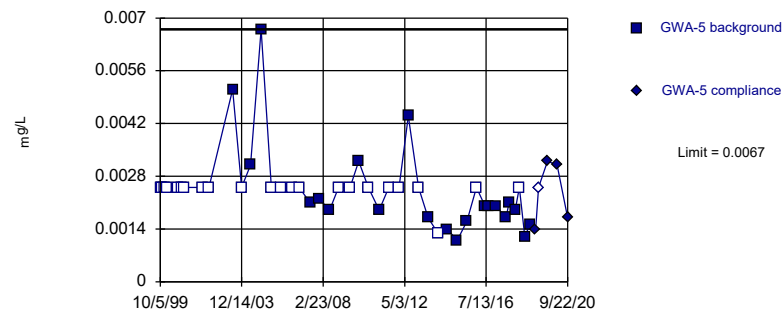


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.  
Within Limit

### Prediction Limit Intrawell Non-parametric

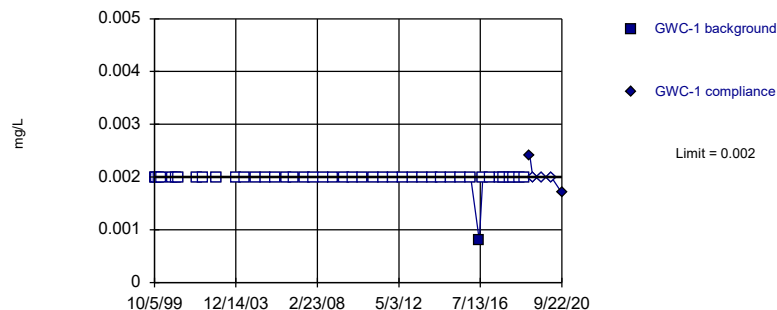


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.  
Within Limit

### Prediction Limit Intrawell Non-parametric

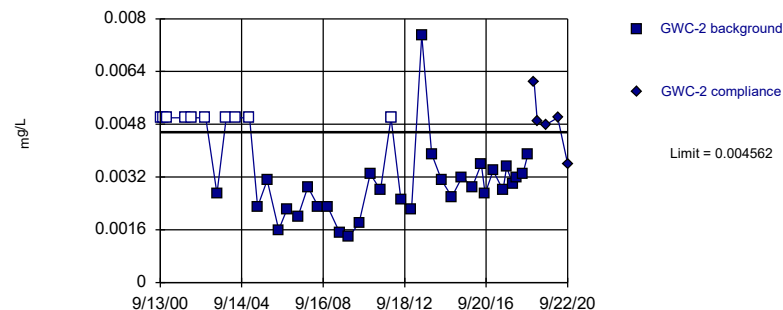


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.  
Within Limit

### Prediction Limit Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04977, Std. Dev.=0.009395, n=41, 24.39% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.92. Kappa = 1.892 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4      | GWA-4       |
|------------|------------|-------------|
| 10/5/1999  | <0.002     |             |
| 11/12/1999 | <0.002     |             |
| 12/29/1999 | <0.002     |             |
| 2/17/2000  | <0.002     |             |
| 9/13/2000  | <0.002     |             |
| 11/10/2000 | <0.002     |             |
| 1/4/2001   | <0.002     |             |
| 12/11/2001 | <0.002     |             |
| 4/4/2002   | <0.002     |             |
| 12/6/2002  | 0.0037     |             |
| 6/28/2003  | 0.0039     |             |
| 12/13/2003 | <0.002     |             |
| 5/28/2004  | <0.002     |             |
| 12/10/2004 | <0.002     |             |
| 6/24/2005  | <0.002     |             |
| 12/13/2005 | <0.002     |             |
| 7/12/2006  | 0.023 (o)  |             |
| 12/1/2006  | 0.0017     |             |
| 6/21/2007  | 0.0027     |             |
| 12/15/2007 | 0.0026     |             |
| 6/21/2008  | 0.0021     |             |
| 12/6/2008  | <0.002     |             |
| 7/11/2009  | <0.002     |             |
| 12/23/2009 | <0.002     |             |
| 6/23/2010  | <0.002     |             |
| 1/8/2011   | <0.002     |             |
| 7/10/2011  | <0.002     |             |
| 1/19/2012  | <0.002     |             |
| 7/12/2012  | <0.002     |             |
| 1/21/2013  | <0.002     |             |
| 7/20/2013  | <0.002     |             |
| 1/17/2014  | <0.002     |             |
| 7/12/2014  | <0.002     |             |
| 1/15/2015  | <0.002     |             |
| 7/15/2015  | <0.002     |             |
| 1/16/2016  | <0.002     |             |
| 6/22/2016  | 0.0005 (J) |             |
| 8/31/2016  | <0.002     |             |
| 1/19/2017  | <0.002     |             |
| 7/18/2017  | <0.002     |             |
| 9/21/2017  | <0.002     |             |
| 1/9/2018   | 0.0087     |             |
| 3/27/2018  | <0.002     |             |
| 7/10/2018  | <0.002     |             |
| 10/8/2018  | <0.002     |             |
| 1/30/2019  |            | 0.00088 (J) |
| 3/28/2019  |            | <0.002      |
| 9/12/2019  |            | <0.002      |
| 3/10/2020  |            | <0.002      |
| 9/21/2020  |            | <0.002      |

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5       | GWA-5      |
|------------|-------------|------------|
| 10/5/1999  | <0.0025     |            |
| 11/12/1999 | <0.0025     |            |
| 12/29/1999 | <0.0025     |            |
| 2/17/2000  | <0.0025     |            |
| 9/13/2000  | <0.0025     |            |
| 11/10/2000 | <0.0025     |            |
| 1/4/2001   | <0.0025     |            |
| 12/11/2001 | <0.0025     |            |
| 4/4/2002   | <0.0025     |            |
| 12/6/2002  | 0.027 (o)   |            |
| 6/28/2003  | 0.0051      |            |
| 12/13/2003 | <0.0025     |            |
| 5/28/2004  | 0.0031      |            |
| 12/10/2004 | 0.0067      |            |
| 6/24/2005  | <0.0025     |            |
| 12/13/2005 | <0.0025     |            |
| 7/12/2006  | <0.0025     |            |
| 12/1/2006  | <0.0025     |            |
| 6/21/2007  | 0.0021      |            |
| 12/15/2007 | 0.0022      |            |
| 6/22/2008  | 0.0019      |            |
| 12/6/2008  | <0.0025     |            |
| 7/11/2009  | <0.0025     |            |
| 12/22/2009 | 0.0032      |            |
| 6/23/2010  | <0.0025     |            |
| 1/8/2011   | 0.0019      |            |
| 7/10/2011  | <0.0025     |            |
| 1/20/2012  | <0.0025     |            |
| 7/12/2012  | 0.0044      |            |
| 1/21/2013  | <0.0025     |            |
| 7/20/2013  | 0.0017      |            |
| 1/17/2014  | <0.0013 (J) |            |
| 7/12/2014  | 0.0014      |            |
| 1/16/2015  | 0.0011 (J)  |            |
| 7/15/2015  | 0.0016      |            |
| 1/16/2016  | <0.0025     |            |
| 6/22/2016  | 0.002 (J)   |            |
| 8/31/2016  | 0.002 (J)   |            |
| 1/19/2017  | 0.002 (J)   |            |
| 7/19/2017  | 0.0017 (J)  |            |
| 9/21/2017  | 0.0021 (J)  |            |
| 1/9/2018   | 0.0019 (J)  |            |
| 3/27/2018  | <0.0025     |            |
| 7/10/2018  | 0.0012 (J)  |            |
| 10/8/2018  | 0.0015 (J)  |            |
| 1/30/2019  |             | 0.0014 (J) |
| 3/27/2019  |             | <0.0025    |
| 9/12/2019  |             | 0.0032     |
| 3/10/2020  |             | 0.0031     |
| 9/22/2020  |             | 0.0017 (J) |

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1      | GWC-1      |
|------------|------------|------------|
| 10/5/1999  | <0.002     |            |
| 11/12/1999 | <0.002     |            |
| 12/29/1999 | <0.002     |            |
| 2/17/2000  | <0.002     |            |
| 9/13/2000  | <0.002     |            |
| 11/10/2000 | <0.002     |            |
| 1/4/2001   | <0.002     |            |
| 12/11/2001 | <0.002     |            |
| 4/4/2002   | <0.002     |            |
| 12/6/2002  | <0.002     |            |
| 6/28/2003  | 0.007 (o)  |            |
| 12/13/2003 | <0.002     |            |
| 5/28/2004  | <0.002     |            |
| 12/10/2004 | <0.002     |            |
| 6/24/2005  | <0.002     |            |
| 12/13/2005 | <0.002     |            |
| 7/12/2006  | <0.002     |            |
| 12/1/2006  | <0.002     |            |
| 6/21/2007  | <0.002     |            |
| 12/15/2007 | <0.002     |            |
| 6/21/2008  | <0.002     |            |
| 12/6/2008  | <0.002     |            |
| 7/11/2009  | <0.002     |            |
| 12/23/2009 | <0.002     |            |
| 6/23/2010  | <0.002     |            |
| 1/8/2011   | <0.002     |            |
| 7/10/2011  | <0.002     |            |
| 1/20/2012  | <0.002     |            |
| 7/12/2012  | <0.002     |            |
| 1/21/2013  | <0.002     |            |
| 7/20/2013  | <0.002     |            |
| 1/17/2014  | <0.002     |            |
| 7/12/2014  | <0.002     |            |
| 1/16/2015  | <0.002     |            |
| 7/15/2015  | <0.002     |            |
| 1/16/2016  | <0.002     |            |
| 6/22/2016  | 0.0008 (J) |            |
| 8/31/2016  | <0.002     |            |
| 1/23/2017  | <0.002     |            |
| 7/19/2017  | <0.002     |            |
| 9/21/2017  | <0.002     |            |
| 1/9/2018   | <0.002     |            |
| 3/28/2018  | <0.002     |            |
| 7/11/2018  | <0.002     |            |
| 10/9/2018  | <0.002     |            |
| 1/30/2019  |            | 0.0024 (J) |
| 3/28/2019  |            | <0.002     |
| 9/12/2019  |            | <0.002     |
| 3/11/2020  |            | <0.002     |
| 9/22/2020  |            | 0.0017 (J) |

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

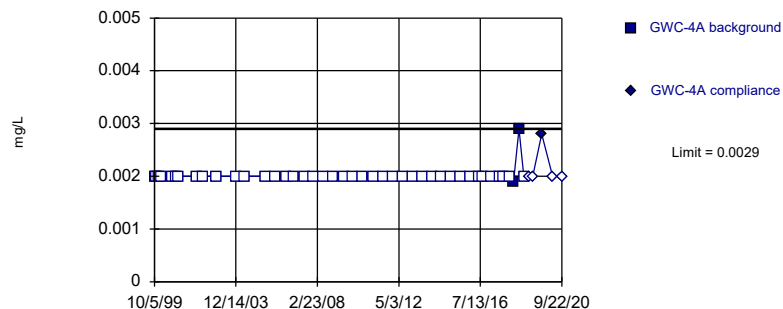
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2      | GWC-2  |
|------------|------------|--------|
| 10/5/1999  | 0.017      |        |
| 11/12/1999 | <0.005     |        |
| 12/29/1999 | 0.011      |        |
| 2/17/2000  | 0.013      |        |
| 9/13/2000  | <0.005     |        |
| 11/10/2000 | <0.005     |        |
| 1/4/2001   | <0.005     |        |
| 12/11/2001 | <0.005     |        |
| 4/4/2002   | <0.005     |        |
| 12/6/2002  | <0.005     |        |
| 6/28/2003  | 0.0027     |        |
| 12/13/2003 | <0.005     |        |
| 5/28/2004  | <0.005     |        |
| 12/10/2004 | 0.74 (o)   |        |
| 2/5/2005   | <0.005     |        |
| 6/24/2005  | 0.0023     |        |
| 12/13/2005 | 0.0031     |        |
| 7/12/2006  | 0.0016     |        |
| 12/1/2006  | 0.0022     |        |
| 6/21/2007  | 0.002      |        |
| 12/15/2007 | 0.0029     |        |
| 6/22/2008  | 0.0023     |        |
| 12/6/2008  | 0.0023     |        |
| 7/11/2009  | 0.0015     |        |
| 12/23/2009 | 0.0014     |        |
| 6/23/2010  | 0.0018     |        |
| 1/8/2011   | 0.0033     |        |
| 7/10/2011  | 0.0028     |        |
| 1/20/2012  | <0.005     |        |
| 7/12/2012  | 0.0025     |        |
| 1/21/2013  | 0.0022     |        |
| 7/20/2013  | 0.0075     |        |
| 1/17/2014  | 0.0039     |        |
| 7/12/2014  | 0.0031     |        |
| 1/15/2015  | 0.0026     |        |
| 7/15/2015  | 0.0032     |        |
| 1/17/2016  | 0.0029     |        |
| 6/22/2016  | 0.0036 (J) |        |
| 8/31/2016  | 0.0027     |        |
| 1/24/2017  | 0.0034     |        |
| 7/19/2017  | 0.0028     |        |
| 9/21/2017  | 0.0035     |        |
| 1/9/2018   | 0.003      |        |
| 3/29/2018  | 0.0032     |        |
| 7/10/2018  | 0.0033     |        |
| 10/9/2018  | 0.0039     |        |
| 1/31/2019  |            | 0.0061 |
| 3/28/2019  |            | 0.0049 |
| 9/12/2019  |            | 0.0048 |
| 3/31/2020  |            | 0.005  |
| 9/22/2020  |            | 0.0036 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



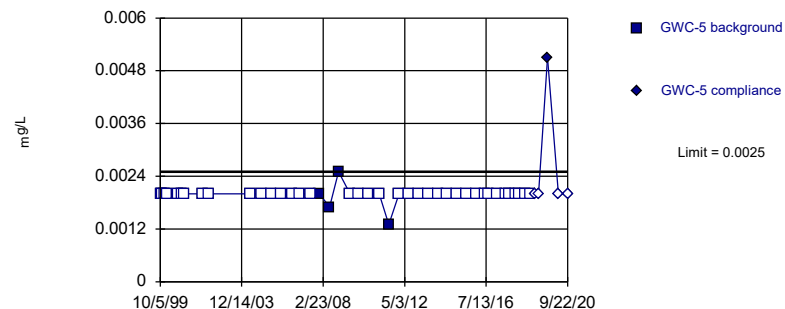
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 95.35% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



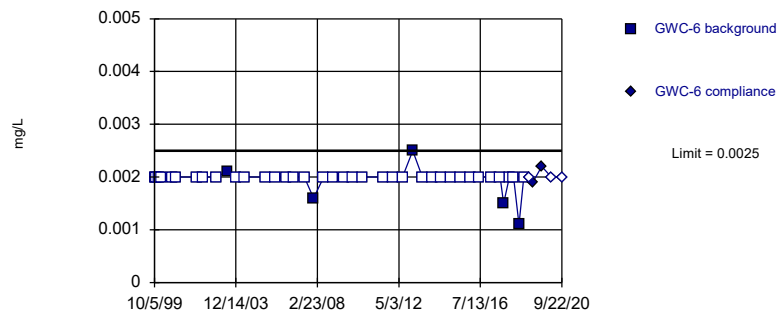
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 90.48% NDs. Well-constituent pair annual alpha = 0.002154. Individual comparison alpha = 0.001077 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



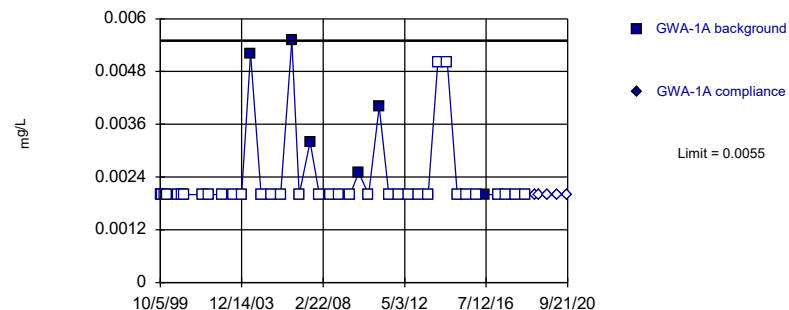
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 87.8% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Chromium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 85.37% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A     | GWC-4A |
|------------|------------|--------|
| 10/5/1999  | <0.002     |        |
| 11/12/1999 | <0.002     |        |
| 12/29/1999 | <0.002     |        |
| 2/17/2000  | <0.002     |        |
| 9/13/2000  | <0.002     |        |
| 11/10/2000 | <0.002     |        |
| 1/4/2001   | <0.002     |        |
| 12/11/2001 | <0.002     |        |
| 4/4/2002   | <0.002     |        |
| 12/6/2002  | <0.002     |        |
| 6/28/2003  | 0.061 (o)  |        |
| 12/13/2003 | <0.002     |        |
| 5/28/2004  | <0.002     |        |
| 12/10/2004 | 0.0059 (o) |        |
| 6/24/2005  | <0.002     |        |
| 12/13/2005 | <0.002     |        |
| 7/12/2006  | <0.002     |        |
| 12/1/2006  | <0.002     |        |
| 6/21/2007  | <0.002     |        |
| 12/15/2007 | <0.002     |        |
| 6/21/2008  | <0.002     |        |
| 12/6/2008  | <0.002     |        |
| 7/11/2009  | <0.002     |        |
| 12/23/2009 | <0.002     |        |
| 6/23/2010  | <0.002     |        |
| 1/8/2011   | <0.002     |        |
| 7/10/2011  | <0.002     |        |
| 1/20/2012  | <0.002     |        |
| 7/12/2012  | <0.002     |        |
| 1/21/2013  | <0.002     |        |
| 7/20/2013  | <0.002     |        |
| 1/17/2014  | <0.002     |        |
| 7/11/2014  | <0.002     |        |
| 1/16/2015  | <0.002     |        |
| 7/15/2015  | <0.002     |        |
| 1/17/2016  | <0.002     |        |
| 6/22/2016  | <0.002     |        |
| 8/31/2016  | <0.002     |        |
| 1/25/2017  | <0.002 (D) |        |
| 7/20/2017  | <0.002     |        |
| 9/21/2017  | <0.002     |        |
| 1/9/2018   | <0.002     |        |
| 3/28/2018  | 0.0019 (J) |        |
| 7/10/2018  | 0.0029     |        |
| 10/9/2018  | <0.002     |        |
| 1/30/2019  |            | <0.002 |
| 3/28/2019  |            | <0.002 |
| 9/12/2019  |            | 0.0028 |
| 3/31/2020  |            | <0.002 |
| 9/22/2020  |            | <0.002 |



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5     | GWC-5  |
|------------|-----------|--------|
| 10/5/1999  | <0.002    |        |
| 11/12/1999 | <0.002    |        |
| 12/29/1999 | <0.002    |        |
| 2/17/2000  | <0.002    |        |
| 9/13/2000  | <0.002    |        |
| 11/10/2000 | <0.002    |        |
| 1/4/2001   | <0.002    |        |
| 12/11/2001 | <0.002    |        |
| 4/4/2002   | <0.002    |        |
| 12/6/2002  | 0.008 (o) |        |
| 6/28/2003  | 0.021 (o) |        |
| 12/13/2003 | 0.011 (o) |        |
| 5/28/2004  | <0.002    |        |
| 12/10/2004 | <0.002    |        |
| 6/24/2005  | <0.002    |        |
| 12/13/2005 | <0.002    |        |
| 7/12/2006  | <0.002    |        |
| 12/1/2006  | <0.002    |        |
| 6/21/2007  | <0.002    |        |
| 12/15/2007 | 0.002     |        |
| 6/21/2008  | 0.0017    |        |
| 12/7/2008  | 0.0025    |        |
| 7/11/2009  | <0.002    |        |
| 12/23/2009 | <0.002    |        |
| 6/23/2010  | <0.002    |        |
| 1/8/2011   | <0.002    |        |
| 7/10/2011  | 0.0013    |        |
| 1/20/2012  | <0.002    |        |
| 7/12/2012  | <0.002    |        |
| 1/21/2013  | <0.002    |        |
| 7/20/2013  | <0.002    |        |
| 1/17/2014  | <0.002    |        |
| 7/11/2014  | <0.002    |        |
| 1/16/2015  | <0.002    |        |
| 7/15/2015  | <0.002    |        |
| 1/16/2016  | <0.002    |        |
| 6/23/2016  | <0.002    |        |
| 9/1/2016   | <0.002    |        |
| 1/24/2017  | <0.002    |        |
| 7/20/2017  | <0.002    |        |
| 9/21/2017  | <0.002    |        |
| 1/10/2018  | <0.002    |        |
| 3/28/2018  | <0.002    |        |
| 7/11/2018  | <0.002    |        |
| 10/9/2018  | <0.002    |        |
| 1/31/2019  |           | <0.002 |
| 3/28/2019  |           | <0.002 |
| 9/12/2019  |           | 0.0051 |
| 3/31/2020  |           | <0.002 |
| 9/22/2020  |           | <0.002 |

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6      | GWC-6      |
|------------|------------|------------|
| 10/5/1999  | <0.002     |            |
| 11/12/1999 | <0.002     |            |
| 12/29/1999 | <0.002     |            |
| 2/17/2000  | <0.002     |            |
| 9/13/2000  | <0.002     |            |
| 11/10/2000 | <0.002     |            |
| 1/4/2001   | 0.016 (o)  |            |
| 12/11/2001 | <0.002     |            |
| 4/4/2002   | <0.002     |            |
| 12/6/2002  | <0.002     |            |
| 6/28/2003  | 0.0021     |            |
| 12/13/2003 | <0.002     |            |
| 5/28/2004  | <0.002     |            |
| 12/10/2004 | 0.0046 (o) |            |
| 6/24/2005  | <0.002     |            |
| 12/13/2005 | <0.002     |            |
| 7/12/2006  | <0.002     |            |
| 12/1/2006  | <0.002     |            |
| 6/21/2007  | <0.002     |            |
| 12/15/2007 | 0.0016     |            |
| 6/22/2008  | <0.002     |            |
| 12/7/2008  | <0.002     |            |
| 7/11/2009  | <0.002     |            |
| 12/23/2009 | <0.002     |            |
| 6/24/2010  | <0.002     |            |
| 7/11/2011  | <0.002     |            |
| 1/20/2012  | <0.002     |            |
| 7/13/2012  | <0.002     |            |
| 1/21/2013  | 0.0025     |            |
| 7/20/2013  | <0.002     |            |
| 1/17/2014  | <0.002     |            |
| 7/12/2014  | <0.002     |            |
| 1/16/2015  | <0.002     |            |
| 7/15/2015  | <0.002     |            |
| 1/16/2016  | <0.002     |            |
| 6/23/2016  | <0.002     |            |
| 9/1/2016   | 0.0069 (o) |            |
| 1/27/2017  | <0.002 (D) |            |
| 7/20/2017  | <0.002     |            |
| 9/22/2017  | 0.0015 (J) |            |
| 1/10/2018  | <0.002     |            |
| 3/29/2018  | <0.002     |            |
| 7/11/2018  | 0.0011 (J) |            |
| 10/9/2018  | <0.002     |            |
| 1/31/2019  |            | <0.002     |
| 3/28/2019  |            | 0.0019 (J) |
| 9/12/2019  |            | 0.0022     |
| 3/11/2020  |            | <0.002     |
| 9/22/2020  |            | <0.002     |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

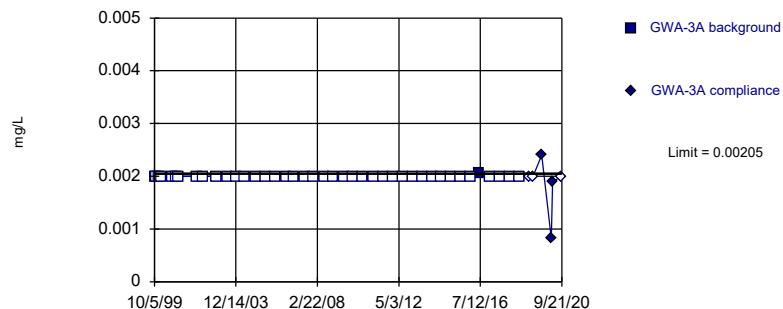
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A     | GWA-1A |
|------------|------------|--------|
| 10/5/1999  | <0.002     |        |
| 11/12/1999 | <0.002     |        |
| 12/29/1999 | <0.002     |        |
| 2/17/2000  | <0.002     |        |
| 9/13/2000  | <0.002     |        |
| 11/10/2000 | <0.002     |        |
| 1/4/2001   | <0.002     |        |
| 12/11/2001 | <0.002     |        |
| 4/4/2002   | <0.002     |        |
| 12/6/2002  | <0.002     |        |
| 6/28/2003  | <0.002     |        |
| 12/13/2003 | <0.002     |        |
| 5/28/2004  | 0.0052     |        |
| 12/10/2004 | <0.002     |        |
| 6/24/2005  | <0.002     |        |
| 12/13/2005 | <0.002     |        |
| 7/12/2006  | 0.0055     |        |
| 12/1/2006  | <0.002     |        |
| 6/21/2007  | 0.0032     |        |
| 12/15/2007 | <0.002     |        |
| 6/22/2008  | <0.002     |        |
| 12/7/2008  | <0.002     |        |
| 7/11/2009  | <0.002     |        |
| 12/23/2009 | 0.0025     |        |
| 6/24/2010  | <0.002     |        |
| 1/9/2011   | 0.004      |        |
| 7/11/2011  | <0.002     |        |
| 1/20/2012  | <0.002     |        |
| 7/13/2012  | <0.002     |        |
| 1/21/2013  | <0.002     |        |
| 7/20/2013  | <0.002     |        |
| 1/17/2014  | <0.005 (J) |        |
| 7/12/2014  | <0.005 (J) |        |
| 1/16/2015  | <0.002     |        |
| 7/15/2015  | <0.002     |        |
| 1/16/2016  | <0.002     |        |
| 6/22/2016  | 0.002 (JD) |        |
| 2/28/2017  | <0.002     |        |
| 7/17/2017  | <0.002     |        |
| 1/8/2018   | <0.002     |        |
| 7/10/2018  | <0.002     |        |
| 1/30/2019  |            | <0.002 |
| 3/27/2019  |            | <0.002 |
| 9/11/2019  |            | <0.002 |
| 3/10/2020  |            | <0.002 |
| 9/21/2020  |            | <0.002 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



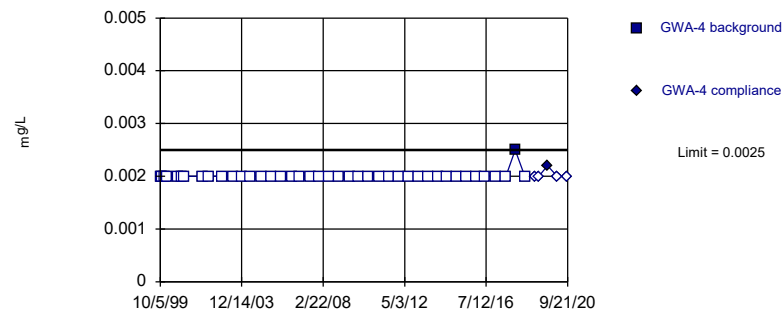
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 97.56% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



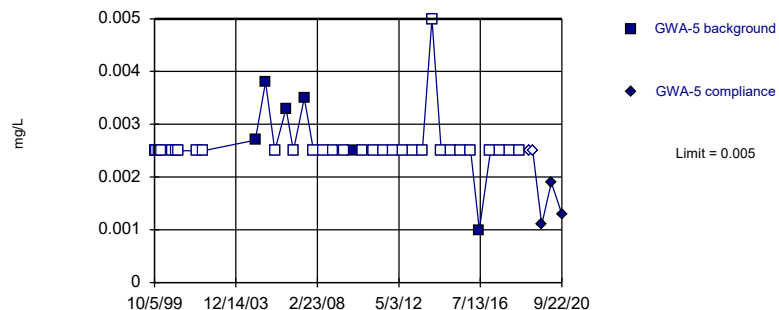
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 97.56% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



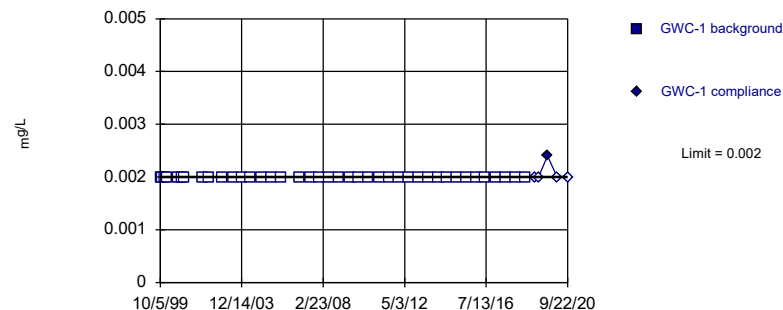
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 83.78% NDs. Well-constituent pair annual alpha = 0.002721. Individual comparison alpha = 0.001361 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A       | GWA-3A      |
|------------|--------------|-------------|
| 10/5/1999  | <0.002       |             |
| 11/12/1999 | <0.002       |             |
| 12/29/1999 | <0.002       |             |
| 2/17/2000  | <0.002       |             |
| 9/13/2000  | <0.002       |             |
| 11/10/2000 | <0.002       |             |
| 1/4/2001   | <0.002       |             |
| 12/11/2001 | <0.002       |             |
| 4/4/2002   | <0.002       |             |
| 12/6/2002  | <0.002       |             |
| 6/28/2003  | <0.002       |             |
| 12/13/2003 | <0.002       |             |
| 5/28/2004  | <0.002       |             |
| 12/10/2004 | <0.002       |             |
| 6/24/2005  | <0.002       |             |
| 12/13/2005 | <0.002       |             |
| 7/12/2006  | <0.002       |             |
| 12/1/2006  | <0.002       |             |
| 6/21/2007  | <0.002       |             |
| 12/15/2007 | <0.002       |             |
| 6/22/2008  | <0.002       |             |
| 12/6/2008  | <0.002       |             |
| 7/10/2009  | <0.002       |             |
| 12/23/2009 | <0.002       |             |
| 6/23/2010  | <0.002       |             |
| 1/8/2011   | <0.002       |             |
| 7/10/2011  | <0.002       |             |
| 1/19/2012  | <0.002       |             |
| 7/12/2012  | <0.002       |             |
| 1/21/2013  | <0.002       |             |
| 7/20/2013  | <0.002       |             |
| 1/17/2014  | <0.002       |             |
| 7/12/2014  | <0.002       |             |
| 1/15/2015  | <0.002       |             |
| 7/15/2015  | <0.002       |             |
| 1/16/2016  | <0.002       |             |
| 6/22/2016  | 0.00205 (JD) |             |
| 1/19/2017  | <0.002       |             |
| 7/18/2017  | <0.002       |             |
| 1/9/2018   | <0.002       |             |
| 7/10/2018  | <0.002       |             |
| 1/30/2019  |              | <0.002      |
| 3/28/2019  |              | <0.002      |
| 9/12/2019  |              | 0.0024      |
| 3/10/2020  |              | 0.00082 (J) |
| 4/2/2020   |              | 0.0019 (J)  |
| 9/21/2020  |              | <0.002      |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4  | GWA-4  |
|------------|--------|--------|
| 10/5/1999  | <0.002 |        |
| 11/12/1999 | <0.002 |        |
| 12/29/1999 | <0.002 |        |
| 2/17/2000  | <0.002 |        |
| 9/13/2000  | <0.002 |        |
| 11/10/2000 | <0.002 |        |
| 1/4/2001   | <0.002 |        |
| 12/11/2001 | <0.002 |        |
| 4/4/2002   | <0.002 |        |
| 12/6/2002  | <0.002 |        |
| 6/28/2003  | <0.002 |        |
| 12/13/2003 | <0.002 |        |
| 5/28/2004  | <0.002 |        |
| 12/10/2004 | <0.002 |        |
| 6/24/2005  | <0.002 |        |
| 12/13/2005 | <0.002 |        |
| 7/12/2006  | <0.002 |        |
| 12/1/2006  | <0.002 |        |
| 6/21/2007  | <0.002 |        |
| 12/15/2007 | <0.002 |        |
| 6/21/2008  | <0.002 |        |
| 12/6/2008  | <0.002 |        |
| 7/11/2009  | <0.002 |        |
| 12/23/2009 | <0.002 |        |
| 6/23/2010  | <0.002 |        |
| 1/8/2011   | <0.002 |        |
| 7/10/2011  | <0.002 |        |
| 1/19/2012  | <0.002 |        |
| 7/12/2012  | <0.002 |        |
| 1/21/2013  | <0.002 |        |
| 7/20/2013  | <0.002 |        |
| 1/17/2014  | <0.002 |        |
| 7/12/2014  | <0.002 |        |
| 1/15/2015  | <0.002 |        |
| 7/15/2015  | <0.002 |        |
| 1/16/2016  | <0.002 |        |
| 6/22/2016  | <0.002 |        |
| 1/19/2017  | <0.002 |        |
| 7/18/2017  | <0.002 |        |
| 1/9/2018   | 0.0025 |        |
| 7/10/2018  | <0.002 |        |
| 1/30/2019  |        | <0.002 |
| 3/28/2019  |        | <0.002 |
| 9/12/2019  |        | 0.0022 |
| 3/10/2020  |        | <0.002 |
| 9/21/2020  |        | <0.002 |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5      | GWA-5      |
|------------|------------|------------|
| 10/5/1999  | <0.0025    |            |
| 11/12/1999 | <0.0025    |            |
| 12/29/1999 | <0.0025    |            |
| 2/17/2000  | <0.0025    |            |
| 9/13/2000  | <0.0025    |            |
| 11/10/2000 | <0.0025    |            |
| 1/4/2001   | <0.0025    |            |
| 12/11/2001 | <0.0025    |            |
| 4/4/2002   | <0.0025    |            |
| 12/6/2002  | 0.0089 (o) |            |
| 6/28/2003  | 0.019 (o)  |            |
| 12/13/2003 | 0.0067 (o) |            |
| 5/28/2004  | 0.0057 (o) |            |
| 12/10/2004 | 0.0027     |            |
| 6/24/2005  | 0.0038     |            |
| 12/13/2005 | <0.0025    |            |
| 7/12/2006  | 0.0033     |            |
| 12/1/2006  | <0.0025    |            |
| 6/21/2007  | 0.0035     |            |
| 12/15/2007 | <0.0025    |            |
| 6/22/2008  | <0.0025    |            |
| 12/6/2008  | <0.0025    |            |
| 7/11/2009  | <0.0025    |            |
| 12/22/2009 | 0.0025     |            |
| 6/23/2010  | <0.0025    |            |
| 1/8/2011   | <0.0025    |            |
| 7/10/2011  | <0.0025    |            |
| 1/20/2012  | <0.0025    |            |
| 7/12/2012  | <0.0025    |            |
| 1/21/2013  | <0.0025    |            |
| 7/20/2013  | <0.0025    |            |
| 1/17/2014  | <0.005 (J) |            |
| 7/12/2014  | <0.0025    |            |
| 1/16/2015  | <0.0025    |            |
| 7/15/2015  | <0.0025    |            |
| 1/16/2016  | <0.0025    |            |
| 6/22/2016  | 0.001      |            |
| 1/19/2017  | <0.0025    |            |
| 7/19/2017  | <0.0025    |            |
| 1/9/2018   | <0.0025    |            |
| 7/10/2018  | <0.0025    |            |
| 1/30/2019  |            | <0.0025    |
| 3/27/2019  |            | <0.0025    |
| 9/12/2019  |            | 0.0011 (J) |
| 3/10/2020  |            | 0.0019 (J) |
| 9/22/2020  |            | 0.0013 (J) |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

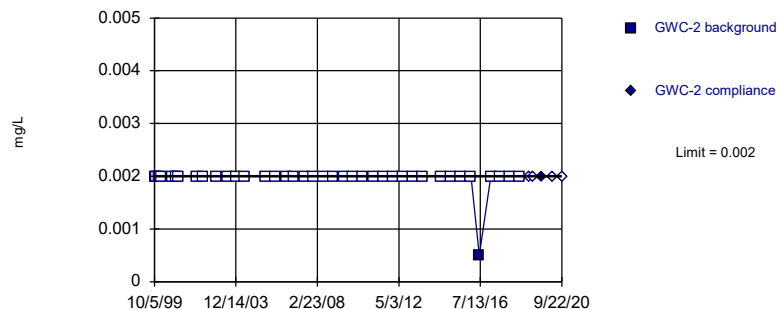
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1      | GWC-1  |
|------------|------------|--------|
| 10/5/1999  | <0.002     |        |
| 11/12/1999 | <0.002     |        |
| 12/29/1999 | <0.002     |        |
| 2/17/2000  | <0.002     |        |
| 9/13/2000  | <0.002     |        |
| 11/10/2000 | <0.002     |        |
| 1/4/2001   | <0.002     |        |
| 12/11/2001 | <0.002     |        |
| 4/4/2002   | <0.002     |        |
| 12/6/2002  | <0.002     |        |
| 6/28/2003  | <0.002     |        |
| 12/13/2003 | <0.002     |        |
| 5/28/2004  | <0.002     |        |
| 12/10/2004 | <0.002     |        |
| 6/24/2005  | <0.002     |        |
| 12/13/2005 | <0.002     |        |
| 7/12/2006  | 0.0047 (o) |        |
| 12/1/2006  | <0.002     |        |
| 6/21/2007  | <0.002     |        |
| 12/15/2007 | <0.002     |        |
| 6/21/2008  | <0.002     |        |
| 12/6/2008  | <0.002     |        |
| 7/11/2009  | <0.002     |        |
| 12/23/2009 | <0.002     |        |
| 6/23/2010  | <0.002     |        |
| 1/8/2011   | <0.002     |        |
| 7/10/2011  | <0.002     |        |
| 1/20/2012  | <0.002     |        |
| 7/12/2012  | <0.002     |        |
| 1/21/2013  | <0.002     |        |
| 7/20/2013  | <0.002     |        |
| 1/17/2014  | <0.002     |        |
| 7/12/2014  | <0.002     |        |
| 1/16/2015  | <0.002     |        |
| 7/15/2015  | <0.002     |        |
| 1/16/2016  | <0.002     |        |
| 6/22/2016  | <0.002     |        |
| 1/23/2017  | <0.002     |        |
| 7/19/2017  | <0.002     |        |
| 1/9/2018   | <0.002     |        |
| 7/11/2018  | <0.002     |        |
| 1/30/2019  |            | <0.002 |
| 3/28/2019  |            | <0.002 |
| 9/12/2019  |            | 0.0024 |
| 3/11/2020  |            | <0.002 |
| 9/22/2020  |            | <0.002 |



Within Limit

### Prediction Limit Intrawell Non-parametric

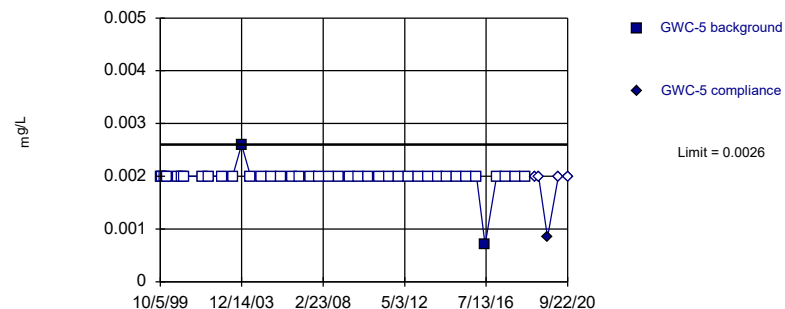


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 97.44% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric

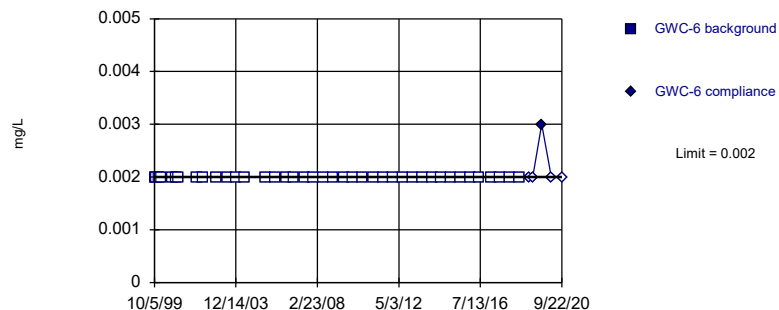


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 95.12% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric

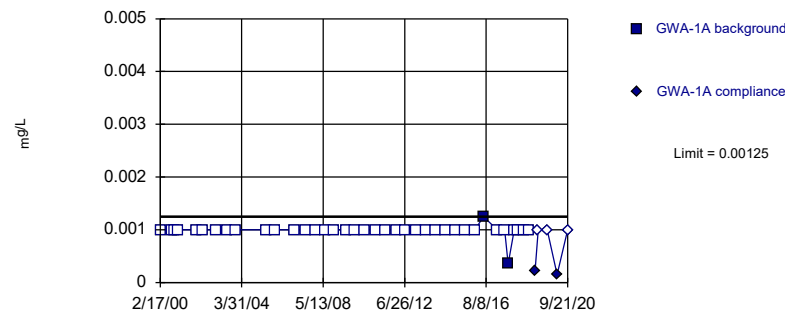


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Copper Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 38 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2      | GWC-2  |
|------------|------------|--------|
| 10/5/1999  | <0.002     |        |
| 11/12/1999 | <0.002     |        |
| 12/29/1999 | <0.002     |        |
| 2/17/2000  | <0.002     |        |
| 9/13/2000  | <0.002     |        |
| 11/10/2000 | <0.002     |        |
| 1/4/2001   | <0.002     |        |
| 12/11/2001 | <0.002     |        |
| 4/4/2002   | <0.002     |        |
| 12/6/2002  | <0.002     |        |
| 6/28/2003  | <0.002     |        |
| 12/13/2003 | <0.002     |        |
| 5/28/2004  | <0.002     |        |
| 12/10/2004 | 0.11 (o)   |        |
| 6/24/2005  | <0.002     |        |
| 12/13/2005 | <0.002     |        |
| 7/12/2006  | <0.002     |        |
| 12/1/2006  | <0.002     |        |
| 6/21/2007  | <0.002     |        |
| 12/15/2007 | <0.002     |        |
| 6/22/2008  | <0.002     |        |
| 12/6/2008  | <0.002     |        |
| 7/11/2009  | <0.002     |        |
| 12/23/2009 | <0.002     |        |
| 6/23/2010  | <0.002     |        |
| 1/8/2011   | <0.002     |        |
| 7/10/2011  | <0.002     |        |
| 1/20/2012  | <0.002     |        |
| 7/12/2012  | <0.002     |        |
| 1/21/2013  | <0.002     |        |
| 7/20/2013  | <0.002     |        |
| 1/17/2014  | 0.0065 (o) |        |
| 7/12/2014  | <0.002     |        |
| 1/15/2015  | <0.002     |        |
| 7/15/2015  | <0.002     |        |
| 1/17/2016  | <0.002     |        |
| 6/22/2016  | 0.0005 (J) |        |
| 1/24/2017  | <0.002     |        |
| 7/19/2017  | <0.002     |        |
| 1/9/2018   | <0.002     |        |
| 7/10/2018  | <0.002     |        |
| 1/31/2019  |            | <0.002 |
| 3/28/2019  |            | <0.002 |
| 9/12/2019  |            | 0.002  |
| 3/31/2020  |            | <0.002 |
| 9/22/2020  |            | <0.002 |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5      | GWC-5       |
|------------|------------|-------------|
| 10/5/1999  | <0.002     |             |
| 11/12/1999 | <0.002     |             |
| 12/29/1999 | <0.002     |             |
| 2/17/2000  | <0.002     |             |
| 9/13/2000  | <0.002     |             |
| 11/10/2000 | <0.002     |             |
| 1/4/2001   | <0.002     |             |
| 12/11/2001 | <0.002     |             |
| 4/4/2002   | <0.002     |             |
| 12/6/2002  | <0.002     |             |
| 6/28/2003  | <0.002     |             |
| 12/13/2003 | 0.0026     |             |
| 5/28/2004  | <0.002     |             |
| 12/10/2004 | <0.002     |             |
| 6/24/2005  | <0.002     |             |
| 12/13/2005 | <0.002     |             |
| 7/12/2006  | <0.002     |             |
| 12/1/2006  | <0.002     |             |
| 6/21/2007  | <0.002     |             |
| 12/15/2007 | <0.002     |             |
| 6/21/2008  | <0.002     |             |
| 12/7/2008  | <0.002     |             |
| 7/11/2009  | <0.002     |             |
| 12/23/2009 | <0.002     |             |
| 6/23/2010  | <0.002     |             |
| 1/8/2011   | <0.002     |             |
| 7/10/2011  | <0.002     |             |
| 1/20/2012  | <0.002     |             |
| 7/12/2012  | <0.002     |             |
| 1/21/2013  | <0.002     |             |
| 7/20/2013  | <0.002     |             |
| 1/17/2014  | <0.002     |             |
| 7/11/2014  | <0.002     |             |
| 1/16/2015  | <0.002     |             |
| 7/15/2015  | <0.002     |             |
| 1/16/2016  | <0.002     |             |
| 6/23/2016  | 0.0007 (J) |             |
| 1/24/2017  | <0.002     |             |
| 7/20/2017  | <0.002     |             |
| 1/10/2018  | <0.002     |             |
| 7/11/2018  | <0.002     |             |
| 1/31/2019  |            | <0.002      |
| 3/28/2019  |            | <0.002      |
| 9/12/2019  |            | 0.00084 (J) |
| 3/31/2020  |            | <0.002      |
| 9/22/2020  |            | <0.002      |

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6      | GWC-6  |
|------------|------------|--------|
| 10/5/1999  | <0.002     |        |
| 11/12/1999 | <0.002     |        |
| 12/29/1999 | <0.002     |        |
| 2/17/2000  | <0.002     |        |
| 9/13/2000  | <0.002     |        |
| 11/10/2000 | <0.002     |        |
| 1/4/2001   | <0.002     |        |
| 12/11/2001 | <0.002     |        |
| 4/4/2002   | <0.002     |        |
| 12/6/2002  | <0.002     |        |
| 6/28/2003  | <0.002     |        |
| 12/13/2003 | <0.002     |        |
| 5/28/2004  | <0.002     |        |
| 12/10/2004 | 0.0044 (o) |        |
| 6/24/2005  | <0.002     |        |
| 12/13/2005 | <0.002     |        |
| 7/12/2006  | <0.002     |        |
| 12/1/2006  | <0.002     |        |
| 6/21/2007  | <0.002     |        |
| 12/15/2007 | <0.002     |        |
| 6/22/2008  | <0.002     |        |
| 12/7/2008  | <0.002     |        |
| 7/11/2009  | <0.002     |        |
| 12/23/2009 | <0.002     |        |
| 6/24/2010  | <0.002     |        |
| 1/9/2011   | <0.002     |        |
| 7/11/2011  | <0.002     |        |
| 1/20/2012  | <0.002     |        |
| 7/13/2012  | <0.002     |        |
| 1/21/2013  | <0.002     |        |
| 7/20/2013  | <0.002     |        |
| 1/17/2014  | <0.002     |        |
| 7/12/2014  | <0.002     |        |
| 1/16/2015  | <0.002     |        |
| 7/15/2015  | <0.002     |        |
| 1/16/2016  | <0.002     |        |
| 6/23/2016  | <0.002     |        |
| 1/27/2017  | <0.002     |        |
| 7/20/2017  | <0.002     |        |
| 1/10/2018  | <0.002     |        |
| 7/11/2018  | <0.002     |        |
| 1/31/2019  |            | <0.002 |
| 3/28/2019  |            | <0.002 |
| 9/12/2019  |            | 0.003  |
| 3/11/2020  |            | <0.002 |
| 9/22/2020  |            | <0.002 |

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

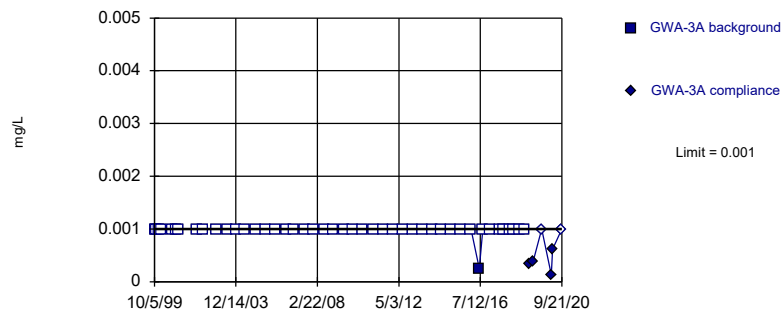
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A       | GWA-1A      |
|------------|--------------|-------------|
| 10/5/1999  | 0.007 (o)    |             |
| 11/12/1999 | 0.0063 (o)   |             |
| 12/29/1999 | 0.016 (o)    |             |
| 2/17/2000  | <0.001       |             |
| 9/13/2000  | <0.001       |             |
| 11/10/2000 | <0.001       |             |
| 1/4/2001   | <0.001       |             |
| 12/11/2001 | <0.001       |             |
| 4/4/2002   | <0.001       |             |
| 12/6/2002  | <0.001       |             |
| 6/28/2003  | <0.001       |             |
| 12/13/2003 | <0.001       |             |
| 5/28/2004  | 0.015 (o)    |             |
| 12/10/2004 | 0.01 (o)     |             |
| 6/24/2005  | <0.001       |             |
| 12/13/2005 | <0.001       |             |
| 7/12/2006  | 0.013 (o)    |             |
| 12/1/2006  | <0.001       |             |
| 6/21/2007  | <0.001       |             |
| 12/15/2007 | <0.001       |             |
| 6/22/2008  | <0.001       |             |
| 12/7/2008  | <0.001       |             |
| 7/11/2009  | <0.001       |             |
| 12/23/2009 | <0.001       |             |
| 6/24/2010  | <0.001       |             |
| 1/9/2011   | <0.001       |             |
| 7/11/2011  | <0.001       |             |
| 1/20/2012  | <0.001       |             |
| 7/13/2012  | <0.001       |             |
| 1/21/2013  | <0.001       |             |
| 7/20/2013  | <0.001       |             |
| 1/17/2014  | <0.001       |             |
| 7/12/2014  | <0.001       |             |
| 1/16/2015  | <0.001       |             |
| 7/15/2015  | <0.001       |             |
| 1/16/2016  | <0.001       |             |
| 6/22/2016  | 0.00125 (JD) |             |
| 9/1/2016   | 0.082 (o)    |             |
| 2/28/2017  | <0.001       |             |
| 7/17/2017  | <0.001       |             |
| 9/20/2017  | 0.00035 (J)  |             |
| 1/8/2018   | <0.001       |             |
| 3/27/2018  | <0.001       |             |
| 7/10/2018  | <0.001       |             |
| 10/8/2018  | <0.001       |             |
| 1/30/2019  |              | 0.00021 (J) |
| 3/27/2019  |              | <0.001      |
| 9/11/2019  |              | <0.001      |
| 3/10/2020  |              | 0.00015 (J) |
| 9/21/2020  |              | <0.001      |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



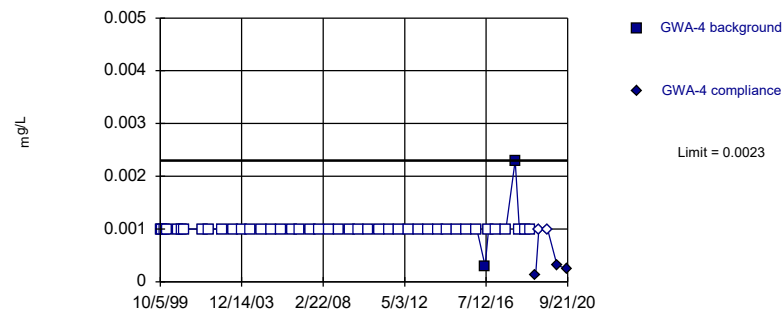
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 97.78% NDs. Well-constituent pair annual alpha = 0.001911. Individual comparison alpha = 0.0009557 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



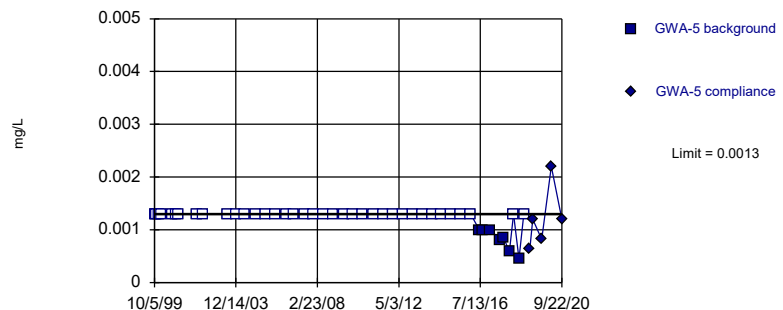
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



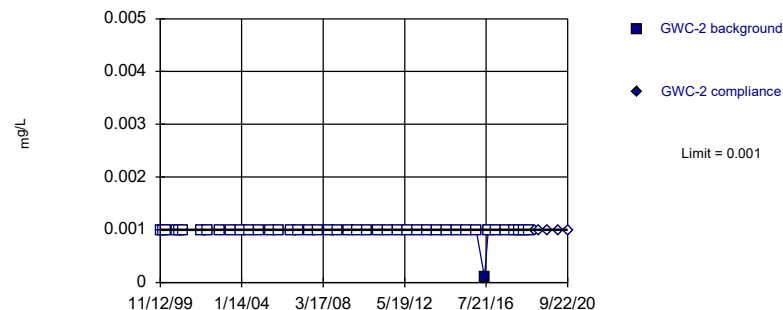
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 84.09% NDs. Well-constituent pair annual alpha = 0.001992. Individual comparison alpha = 0.0009963 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A       | GWA-3A      |
|------------|--------------|-------------|
| 10/5/1999  | <0.001       |             |
| 11/12/1999 | <0.001       |             |
| 12/29/1999 | <0.001       |             |
| 2/17/2000  | <0.001       |             |
| 9/13/2000  | <0.001       |             |
| 11/10/2000 | <0.001       |             |
| 1/4/2001   | <0.001       |             |
| 12/11/2001 | <0.001       |             |
| 4/4/2002   | <0.001       |             |
| 12/6/2002  | <0.001       |             |
| 6/28/2003  | <0.001       |             |
| 12/13/2003 | <0.001       |             |
| 5/28/2004  | <0.001       |             |
| 12/10/2004 | <0.001       |             |
| 6/24/2005  | <0.001       |             |
| 12/13/2005 | <0.001       |             |
| 7/12/2006  | <0.001       |             |
| 12/1/2006  | <0.001       |             |
| 6/21/2007  | <0.001       |             |
| 12/15/2007 | <0.001       |             |
| 6/22/2008  | <0.001       |             |
| 12/6/2008  | <0.001       |             |
| 7/10/2009  | <0.001       |             |
| 12/23/2009 | <0.001       |             |
| 6/23/2010  | <0.001       |             |
| 1/8/2011   | <0.001       |             |
| 7/10/2011  | <0.001       |             |
| 1/19/2012  | <0.001       |             |
| 7/12/2012  | <0.001       |             |
| 1/21/2013  | <0.001       |             |
| 7/20/2013  | <0.001       |             |
| 1/17/2014  | <0.001       |             |
| 7/12/2014  | <0.001       |             |
| 1/15/2015  | <0.001       |             |
| 7/15/2015  | <0.001       |             |
| 1/16/2016  | <0.001       |             |
| 6/22/2016  | 0.00025 (JD) |             |
| 8/31/2016  | <0.001       |             |
| 1/19/2017  | <0.001       |             |
| 7/18/2017  | <0.001       |             |
| 9/20/2017  | <0.001       |             |
| 1/9/2018   | <0.001       |             |
| 3/27/2018  | <0.001       |             |
| 7/10/2018  | <0.001       |             |
| 10/9/2018  | <0.001       |             |
| 1/30/2019  |              | 0.00034 (J) |
| 3/28/2019  |              | 0.00038 (J) |
| 9/12/2019  |              | <0.001      |
| 3/10/2020  |              | 0.00013 (J) |
| 4/2/2020   |              | 0.00062 (J) |
| 9/21/2020  |              | <0.001      |

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4      | GWA-4       |
|------------|------------|-------------|
| 10/5/1999  | <0.001     |             |
| 11/12/1999 | <0.001     |             |
| 12/29/1999 | <0.001     |             |
| 2/17/2000  | <0.001     |             |
| 9/13/2000  | <0.001     |             |
| 11/10/2000 | <0.001     |             |
| 1/4/2001   | <0.001     |             |
| 12/11/2001 | <0.001     |             |
| 4/4/2002   | <0.001     |             |
| 12/6/2002  | <0.001     |             |
| 6/28/2003  | <0.001     |             |
| 12/13/2003 | <0.001     |             |
| 5/28/2004  | <0.001     |             |
| 12/10/2004 | <0.001     |             |
| 6/24/2005  | <0.001     |             |
| 12/13/2005 | <0.001     |             |
| 7/12/2006  | <0.001     |             |
| 12/1/2006  | <0.001     |             |
| 6/21/2007  | <0.001     |             |
| 12/15/2007 | <0.001     |             |
| 6/21/2008  | <0.001     |             |
| 12/6/2008  | <0.001     |             |
| 7/11/2009  | <0.001     |             |
| 12/23/2009 | <0.001     |             |
| 6/23/2010  | <0.001     |             |
| 1/8/2011   | <0.001     |             |
| 7/10/2011  | <0.001     |             |
| 1/19/2012  | <0.001     |             |
| 7/12/2012  | <0.001     |             |
| 1/21/2013  | <0.001     |             |
| 7/20/2013  | <0.001     |             |
| 1/17/2014  | <0.001     |             |
| 7/12/2014  | <0.001     |             |
| 1/15/2015  | <0.001     |             |
| 7/15/2015  | <0.001     |             |
| 1/16/2016  | <0.001     |             |
| 6/22/2016  | 0.0003 (J) |             |
| 8/31/2016  | <0.001     |             |
| 1/19/2017  | <0.001     |             |
| 7/18/2017  | <0.001     |             |
| 9/21/2017  | 0.0076 (o) |             |
| 1/9/2018   | 0.0023     |             |
| 3/27/2018  | <0.001     |             |
| 7/10/2018  | <0.001     |             |
| 10/8/2018  | <0.001     |             |
| 1/30/2019  |            | 0.00013 (J) |
| 3/28/2019  |            | <0.001      |
| 9/12/2019  |            | <0.001      |
| 3/10/2020  |            | 0.00031 (J) |
| 9/21/2020  |            | 0.00025 (J) |



# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5       | GWA-5       |
|------------|-------------|-------------|
| 10/5/1999  | <0.0013     |             |
| 11/12/1999 | <0.0013     |             |
| 12/29/1999 | <0.0013     |             |
| 2/17/2000  | <0.0013     |             |
| 9/13/2000  | <0.0013     |             |
| 11/10/2000 | <0.0013     |             |
| 1/4/2001   | <0.0013     |             |
| 12/11/2001 | <0.0013     |             |
| 4/4/2002   | <0.0013     |             |
| 12/6/2002  | 0.011 (o)   |             |
| 6/28/2003  | <0.0013     |             |
| 12/13/2003 | <0.0013     |             |
| 5/28/2004  | <0.0013     |             |
| 12/10/2004 | <0.0013     |             |
| 6/24/2005  | <0.0013     |             |
| 12/13/2005 | <0.0013     |             |
| 7/12/2006  | <0.0013     |             |
| 12/1/2006  | <0.0013     |             |
| 6/21/2007  | <0.0013     |             |
| 12/15/2007 | <0.0013     |             |
| 6/22/2008  | <0.0013     |             |
| 12/6/2008  | <0.0013     |             |
| 7/11/2009  | <0.0013     |             |
| 12/22/2009 | <0.0013     |             |
| 6/23/2010  | <0.0013     |             |
| 1/8/2011   | <0.0013     |             |
| 7/10/2011  | <0.0013     |             |
| 1/20/2012  | <0.0013     |             |
| 7/12/2012  | <0.0013     |             |
| 1/21/2013  | <0.0013     |             |
| 7/20/2013  | <0.0013     |             |
| 1/17/2014  | <0.0013     |             |
| 7/12/2014  | <0.0013     |             |
| 1/16/2015  | <0.0013     |             |
| 7/15/2015  | <0.0013     |             |
| 1/16/2016  | <0.0013     |             |
| 6/22/2016  | 0.001 (J)   |             |
| 8/31/2016  | 0.00099 (J) |             |
| 1/19/2017  | 0.001 (J)   |             |
| 7/19/2017  | 0.00081 (J) |             |
| 9/21/2017  | 0.00086 (J) |             |
| 1/9/2018   | 0.00059 (J) |             |
| 3/27/2018  | <0.0013     |             |
| 7/10/2018  | 0.00045 (J) |             |
| 10/8/2018  | <0.0013     |             |
| 1/30/2019  |             | 0.00064 (J) |
| 3/27/2019  |             | 0.0012 (J)  |
| 9/12/2019  |             | 0.00082 (J) |
| 3/10/2020  |             | 0.0022      |
| 9/22/2020  |             | 0.0012      |

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

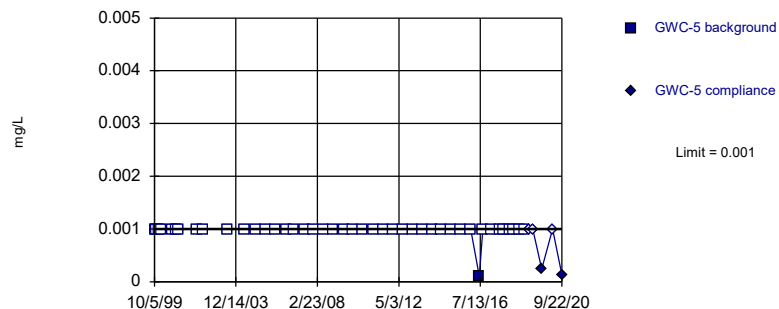
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2      | GWC-2  |
|------------|------------|--------|
| 10/5/1999  | 0.0054 (o) |        |
| 11/12/1999 | <0.001     |        |
| 12/29/1999 | <0.001     |        |
| 2/17/2000  | <0.001     |        |
| 9/13/2000  | <0.001     |        |
| 11/10/2000 | <0.001     |        |
| 1/4/2001   | <0.001     |        |
| 12/11/2001 | <0.001     |        |
| 4/4/2002   | <0.001     |        |
| 12/6/2002  | <0.001     |        |
| 6/28/2003  | <0.001     |        |
| 12/13/2003 | <0.001     |        |
| 5/28/2004  | <0.001     |        |
| 12/10/2004 | <0.001     |        |
| 6/24/2005  | <0.001     |        |
| 12/13/2005 | <0.001     |        |
| 7/12/2006  | <0.001     |        |
| 12/1/2006  | <0.001     |        |
| 6/21/2007  | <0.001     |        |
| 12/15/2007 | <0.001     |        |
| 6/22/2008  | <0.001     |        |
| 12/6/2008  | <0.001     |        |
| 7/11/2009  | <0.001     |        |
| 12/23/2009 | <0.001     |        |
| 6/23/2010  | <0.001     |        |
| 1/8/2011   | <0.001     |        |
| 7/10/2011  | <0.001     |        |
| 1/20/2012  | <0.001     |        |
| 7/12/2012  | <0.001     |        |
| 1/21/2013  | <0.001     |        |
| 7/20/2013  | <0.001     |        |
| 1/17/2014  | <0.001     |        |
| 7/12/2014  | <0.001     |        |
| 1/15/2015  | <0.001     |        |
| 7/15/2015  | <0.001     |        |
| 1/17/2016  | <0.001     |        |
| 6/22/2016  | 0.0001 (J) |        |
| 8/31/2016  | <0.001     |        |
| 1/24/2017  | <0.001     |        |
| 7/19/2017  | <0.001     |        |
| 9/21/2017  | 0.0014 (o) |        |
| 1/9/2018   | <0.001     |        |
| 3/29/2018  | <0.001     |        |
| 7/10/2018  | <0.001     |        |
| 10/9/2018  | <0.001     |        |
| 1/31/2019  |            | <0.001 |
| 3/28/2019  |            | <0.001 |
| 9/12/2019  |            | <0.001 |
| 3/31/2020  |            | <0.001 |
| 9/22/2020  |            | <0.001 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



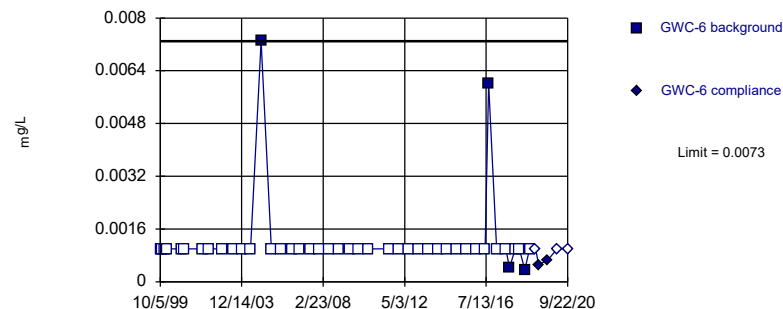
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 97.67% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



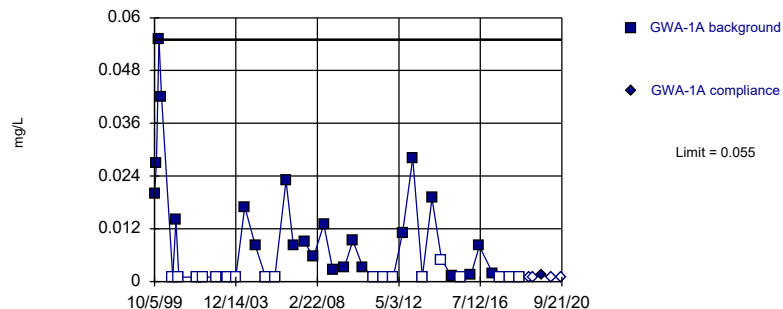
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 90.7% NDs. Well-constituent pair annual alpha = 0.002073. Individual comparison alpha = 0.001037 (1 of 2).

Constituent: Lead Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



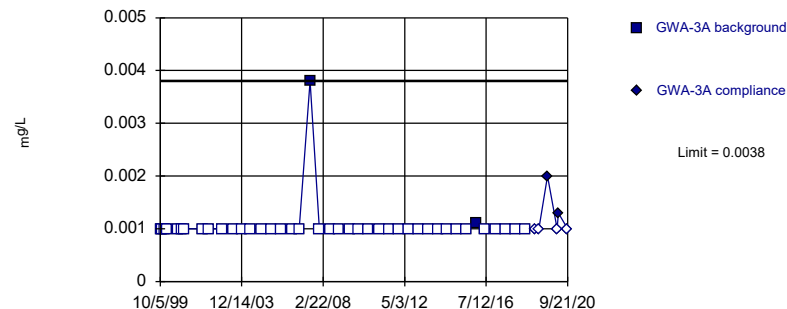
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 43.9% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 95.12% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5      | GWC-5       |
|------------|------------|-------------|
| 10/5/1999  | <0.001     |             |
| 11/12/1999 | <0.001     |             |
| 12/29/1999 | <0.001     |             |
| 2/17/2000  | <0.001     |             |
| 9/13/2000  | <0.001     |             |
| 11/10/2000 | <0.001     |             |
| 1/4/2001   | <0.001     |             |
| 12/11/2001 | <0.001     |             |
| 4/4/2002   | <0.001     |             |
| 12/6/2002  | 0.007 (o)  |             |
| 6/28/2003  | <0.001     |             |
| 12/13/2003 | 0.018 (o)  |             |
| 5/28/2004  | <0.001     |             |
| 12/10/2004 | <0.001     |             |
| 6/24/2005  | <0.001     |             |
| 12/13/2005 | <0.001     |             |
| 7/12/2006  | <0.001     |             |
| 12/1/2006  | <0.001     |             |
| 6/21/2007  | <0.001     |             |
| 12/15/2007 | <0.001     |             |
| 6/21/2008  | <0.001     |             |
| 12/7/2008  | <0.001     |             |
| 7/11/2009  | <0.001     |             |
| 12/23/2009 | <0.001     |             |
| 6/23/2010  | <0.001     |             |
| 1/8/2011   | <0.001     |             |
| 7/10/2011  | <0.001     |             |
| 1/20/2012  | <0.001     |             |
| 7/12/2012  | <0.001     |             |
| 1/21/2013  | <0.001     |             |
| 7/20/2013  | <0.001     |             |
| 1/17/2014  | <0.001     |             |
| 7/11/2014  | <0.001     |             |
| 1/16/2015  | <0.001     |             |
| 7/15/2015  | <0.001     |             |
| 1/16/2016  | <0.001     |             |
| 6/23/2016  | 0.0001 (J) |             |
| 9/1/2016   | <0.001     |             |
| 1/24/2017  | <0.001     |             |
| 7/20/2017  | <0.001     |             |
| 9/21/2017  | <0.001     |             |
| 1/10/2018  | <0.001     |             |
| 3/28/2018  | <0.001     |             |
| 7/11/2018  | <0.001     |             |
| 10/9/2018  | <0.001     |             |
| 1/31/2019  |            | <0.001      |
| 3/28/2019  |            | <0.001      |
| 9/12/2019  |            | 0.00024 (J) |
| 3/31/2020  |            | <0.001      |
| 9/22/2020  |            | 0.00013 (J) |

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6       | GWC-6       |
|------------|-------------|-------------|
| 10/5/1999  | <0.001      |             |
| 11/12/1999 | <0.001      |             |
| 12/29/1999 | <0.001      |             |
| 2/17/2000  | <0.001      |             |
| 9/13/2000  | 0.079 (o)   |             |
| 11/10/2000 | <0.001      |             |
| 1/4/2001   | <0.001      |             |
| 12/11/2001 | <0.001      |             |
| 4/4/2002   | <0.001      |             |
| 12/6/2002  | <0.001      |             |
| 6/28/2003  | <0.001      |             |
| 12/13/2003 | <0.001      |             |
| 5/28/2004  | <0.001      |             |
| 12/10/2004 | 0.0073      |             |
| 6/24/2005  | <0.001      |             |
| 12/13/2005 | <0.001      |             |
| 7/12/2006  | <0.001      |             |
| 12/1/2006  | <0.001      |             |
| 6/21/2007  | <0.001      |             |
| 12/15/2007 | <0.001      |             |
| 6/22/2008  | <0.001      |             |
| 12/7/2008  | <0.001      |             |
| 7/11/2009  | <0.001      |             |
| 12/23/2009 | <0.001      |             |
| 6/24/2010  | <0.001      |             |
| 7/11/2011  | <0.001      |             |
| 1/20/2012  | <0.001      |             |
| 7/13/2012  | <0.001      |             |
| 1/21/2013  | <0.001      |             |
| 7/20/2013  | <0.001      |             |
| 1/17/2014  | <0.001      |             |
| 7/12/2014  | <0.001      |             |
| 1/16/2015  | <0.001      |             |
| 7/15/2015  | <0.001      |             |
| 1/16/2016  | <0.001      |             |
| 6/23/2016  | <0.001      |             |
| 9/1/2016   | 0.006       |             |
| 1/27/2017  | <0.001 (D)  |             |
| 7/20/2017  | <0.001      |             |
| 9/22/2017  | 0.00042 (J) |             |
| 1/10/2018  | <0.001      |             |
| 3/29/2018  | <0.001      |             |
| 7/11/2018  | 0.00037 (J) |             |
| 10/9/2018  | <0.001      |             |
| 1/31/2019  |             | <0.001      |
| 3/28/2019  |             | 0.00052 (J) |
| 9/12/2019  |             | 0.00065 (J) |
| 3/11/2020  |             | <0.001      |
| 9/22/2020  |             | <0.001      |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A     | GWA-1A |
|------------|------------|--------|
| 10/5/1999  | 0.02       |        |
| 11/12/1999 | 0.027      |        |
| 12/29/1999 | 0.055      |        |
| 2/17/2000  | 0.042      |        |
| 9/13/2000  | <0.001     |        |
| 11/10/2000 | 0.014      |        |
| 1/4/2001   | <0.001     |        |
| 12/11/2001 | <0.001     |        |
| 4/4/2002   | <0.001     |        |
| 12/6/2002  | <0.001     |        |
| 6/28/2003  | <0.001     |        |
| 12/13/2003 | <0.001     |        |
| 5/28/2004  | 0.017      |        |
| 12/10/2004 | 0.0082     |        |
| 6/24/2005  | <0.001     |        |
| 12/13/2005 | <0.001     |        |
| 7/12/2006  | 0.023      |        |
| 12/1/2006  | 0.0081     |        |
| 6/21/2007  | 0.009      |        |
| 12/15/2007 | 0.0056     |        |
| 6/22/2008  | 0.013      |        |
| 12/7/2008  | 0.0027     |        |
| 7/11/2009  | 0.0032     |        |
| 12/23/2009 | 0.0093     |        |
| 6/24/2010  | 0.0033     |        |
| 1/9/2011   | <0.001     |        |
| 7/11/2011  | <0.001     |        |
| 1/20/2012  | <0.001     |        |
| 7/13/2012  | 0.011      |        |
| 1/21/2013  | 0.028      |        |
| 7/20/2013  | <0.001     |        |
| 1/17/2014  | 0.019      |        |
| 7/12/2014  | <0.005 (J) |        |
| 1/16/2015  | 0.0012 (J) |        |
| 7/15/2015  | <0.001     |        |
| 1/16/2016  | 0.0015 (J) |        |
| 6/22/2016  | 0.0081 (D) |        |
| 2/28/2017  | 0.0019 (J) |        |
| 7/17/2017  | <0.001     |        |
| 1/8/2018   | <0.001     |        |
| 7/10/2018  | <0.001     |        |
| 1/30/2019  |            | <0.001 |
| 3/27/2019  |            | <0.001 |
| 9/11/2019  |            | 0.0014 |
| 3/10/2020  |            | <0.001 |
| 9/21/2020  |            | <0.001 |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

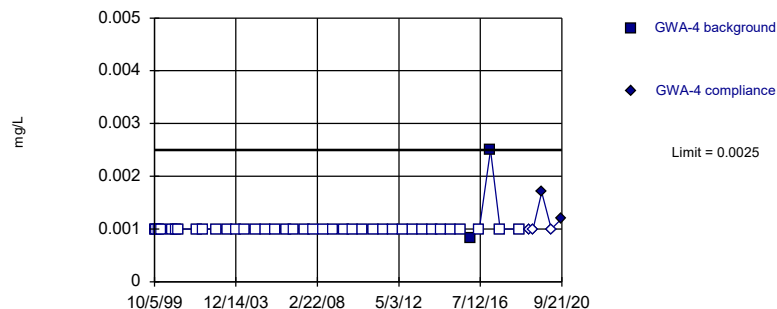
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A     | GWA-3A |
|------------|------------|--------|
| 10/5/1999  | <0.001     |        |
| 11/12/1999 | <0.001     |        |
| 12/29/1999 | <0.001     |        |
| 2/17/2000  | <0.001     |        |
| 9/13/2000  | <0.001     |        |
| 11/10/2000 | <0.001     |        |
| 1/4/2001   | <0.001     |        |
| 12/11/2001 | <0.001     |        |
| 4/4/2002   | <0.001     |        |
| 12/6/2002  | <0.001     |        |
| 6/28/2003  | <0.001     |        |
| 12/13/2003 | <0.001     |        |
| 5/28/2004  | <0.001     |        |
| 12/10/2004 | <0.001     |        |
| 6/24/2005  | <0.001     |        |
| 12/13/2005 | <0.001     |        |
| 7/12/2006  | <0.001     |        |
| 12/1/2006  | <0.001     |        |
| 6/21/2007  | 0.0038     |        |
| 12/15/2007 | <0.001     |        |
| 6/22/2008  | <0.001     |        |
| 12/6/2008  | <0.001     |        |
| 7/10/2009  | <0.001     |        |
| 12/23/2009 | <0.001     |        |
| 6/23/2010  | <0.001     |        |
| 1/8/2011   | <0.001     |        |
| 7/10/2011  | <0.001     |        |
| 1/19/2012  | <0.001     |        |
| 7/12/2012  | <0.001     |        |
| 1/21/2013  | <0.001     |        |
| 7/20/2013  | <0.001     |        |
| 1/17/2014  | <0.001     |        |
| 7/12/2014  | <0.001     |        |
| 1/15/2015  | <0.001     |        |
| 7/15/2015  | <0.001     |        |
| 1/16/2016  | 0.0011 (J) |        |
| 6/22/2016  | <0.001     |        |
| 1/19/2017  | <0.001     |        |
| 7/18/2017  | <0.001     |        |
| 1/9/2018   | <0.001     |        |
| 7/10/2018  | <0.001     |        |
| 1/30/2019  |            | <0.001 |
| 3/28/2019  |            | <0.001 |
| 9/12/2019  |            | 0.002  |
| 3/10/2020  |            | <0.001 |
| 4/2/2020   |            | 0.0013 |
| 9/21/2020  |            | <0.001 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



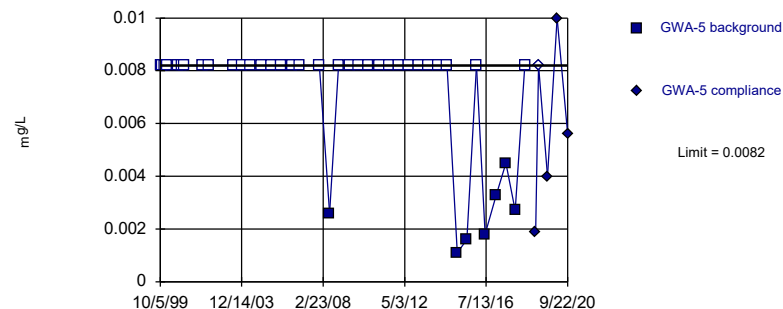
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



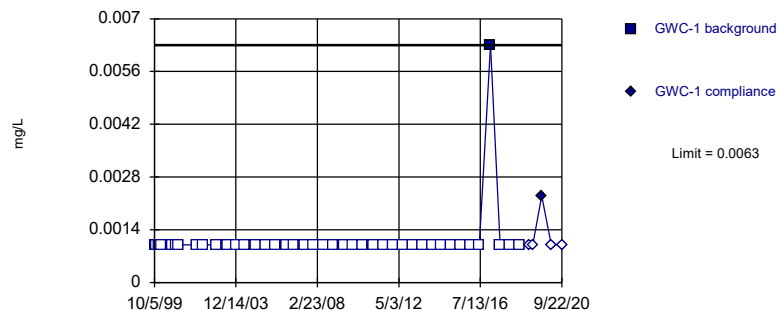
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 82.05% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:29 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



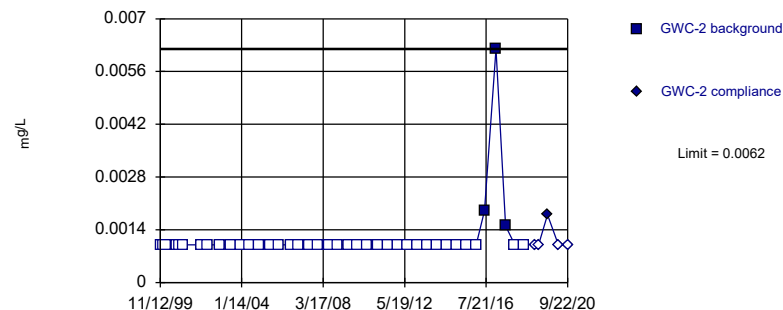
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 97.56% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4       | GWA-4  |
|------------|-------------|--------|
| 10/5/1999  | <0.001      |        |
| 11/12/1999 | <0.001      |        |
| 12/29/1999 | <0.001      |        |
| 2/17/2000  | <0.001      |        |
| 9/13/2000  | <0.001      |        |
| 11/10/2000 | <0.001      |        |
| 1/4/2001   | <0.001      |        |
| 12/11/2001 | <0.001      |        |
| 4/4/2002   | <0.001      |        |
| 12/6/2002  | <0.001      |        |
| 6/28/2003  | <0.001      |        |
| 12/13/2003 | <0.001      |        |
| 5/28/2004  | <0.001      |        |
| 12/10/2004 | <0.001      |        |
| 6/24/2005  | <0.001      |        |
| 12/13/2005 | <0.001      |        |
| 7/12/2006  | <0.001      |        |
| 12/1/2006  | <0.001      |        |
| 6/21/2007  | <0.001      |        |
| 12/15/2007 | <0.001      |        |
| 6/21/2008  | <0.001      |        |
| 12/6/2008  | <0.001      |        |
| 7/11/2009  | <0.001      |        |
| 12/23/2009 | <0.001      |        |
| 6/23/2010  | <0.001      |        |
| 1/8/2011   | <0.001      |        |
| 7/10/2011  | <0.001      |        |
| 1/19/2012  | <0.001      |        |
| 7/12/2012  | <0.001      |        |
| 1/21/2013  | <0.001      |        |
| 7/20/2013  | <0.001      |        |
| 1/17/2014  | <0.001      |        |
| 7/12/2014  | <0.001      |        |
| 1/15/2015  | <0.001      |        |
| 7/15/2015  | <0.001      |        |
| 1/16/2016  | 0.00082 (J) |        |
| 6/22/2016  | <0.001      |        |
| 1/19/2017  | 0.0025      |        |
| 7/18/2017  | <0.001      |        |
| 1/9/2018   | 0.0072 (o)  |        |
| 7/10/2018  | <0.001      |        |
| 1/30/2019  |             | <0.001 |
| 3/28/2019  |             | <0.001 |
| 9/12/2019  |             | 0.0017 |
| 3/10/2020  |             | <0.001 |
| 9/21/2020  |             | 0.0012 |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5      | GWA-5      |
|------------|------------|------------|
| 10/5/1999  | <0.0082    |            |
| 11/12/1999 | <0.0082    |            |
| 12/29/1999 | <0.0082    |            |
| 2/17/2000  | <0.0082    |            |
| 9/13/2000  | <0.0082    |            |
| 11/10/2000 | <0.0082    |            |
| 1/4/2001   | <0.0082    |            |
| 12/11/2001 | <0.0082    |            |
| 4/4/2002   | <0.0082    |            |
| 12/6/2002  | 0.03 (o)   |            |
| 6/28/2003  | <0.0082    |            |
| 12/13/2003 | <0.0082    |            |
| 5/28/2004  | <0.0082    |            |
| 12/10/2004 | <0.0082    |            |
| 6/24/2005  | <0.0082    |            |
| 12/13/2005 | <0.0082    |            |
| 7/12/2006  | <0.0082    |            |
| 12/1/2006  | <0.0082    |            |
| 6/21/2007  | 0.07 (o)   |            |
| 12/15/2007 | <0.0082    |            |
| 6/22/2008  | 0.0026     |            |
| 12/6/2008  | <0.0082    |            |
| 7/11/2009  | <0.0082    |            |
| 12/22/2009 | <0.0082    |            |
| 6/23/2010  | <0.0082    |            |
| 1/8/2011   | <0.0082    |            |
| 7/10/2011  | <0.0082    |            |
| 1/20/2012  | <0.0082    |            |
| 7/12/2012  | <0.0082    |            |
| 1/21/2013  | <0.0082    |            |
| 7/20/2013  | <0.0082    |            |
| 1/17/2014  | <0.0082    |            |
| 7/12/2014  | <0.0082    |            |
| 1/16/2015  | 0.0011 (J) |            |
| 7/15/2015  | 0.0016 (J) |            |
| 1/16/2016  | <0.0082    |            |
| 6/22/2016  | 0.0018 (J) |            |
| 1/19/2017  | 0.0033     |            |
| 7/19/2017  | 0.0045     |            |
| 1/9/2018   | 0.0027     |            |
| 7/10/2018  | <0.0082    |            |
| 1/30/2019  |            | 0.0019 (J) |
| 3/27/2019  |            | <0.0082    |
| 9/12/2019  |            | 0.004      |
| 3/10/2020  |            | 0.01       |
| 9/22/2020  |            | 0.0056     |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1  | GWC-1  |
|------------|--------|--------|
| 10/5/1999  | <0.001 |        |
| 11/12/1999 | <0.001 |        |
| 12/29/1999 | <0.001 |        |
| 2/17/2000  | <0.001 |        |
| 9/13/2000  | <0.001 |        |
| 11/10/2000 | <0.001 |        |
| 1/4/2001   | <0.001 |        |
| 12/11/2001 | <0.001 |        |
| 4/4/2002   | <0.001 |        |
| 12/6/2002  | <0.001 |        |
| 6/28/2003  | <0.001 |        |
| 12/13/2003 | <0.001 |        |
| 5/28/2004  | <0.001 |        |
| 12/10/2004 | <0.001 |        |
| 6/24/2005  | <0.001 |        |
| 12/13/2005 | <0.001 |        |
| 7/12/2006  | <0.001 |        |
| 12/1/2006  | <0.001 |        |
| 6/21/2007  | <0.001 |        |
| 12/15/2007 | <0.001 |        |
| 6/21/2008  | <0.001 |        |
| 12/6/2008  | <0.001 |        |
| 7/11/2009  | <0.001 |        |
| 12/23/2009 | <0.001 |        |
| 6/23/2010  | <0.001 |        |
| 1/8/2011   | <0.001 |        |
| 7/10/2011  | <0.001 |        |
| 1/20/2012  | <0.001 |        |
| 7/12/2012  | <0.001 |        |
| 1/21/2013  | <0.001 |        |
| 7/20/2013  | <0.001 |        |
| 1/17/2014  | <0.001 |        |
| 7/12/2014  | <0.001 |        |
| 1/16/2015  | <0.001 |        |
| 7/15/2015  | <0.001 |        |
| 1/16/2016  | <0.001 |        |
| 6/22/2016  | <0.001 |        |
| 1/23/2017  | 0.0063 |        |
| 7/19/2017  | <0.001 |        |
| 1/9/2018   | <0.001 |        |
| 7/11/2018  | <0.001 |        |
| 1/30/2019  |        | <0.001 |
| 3/28/2019  |        | <0.001 |
| 9/12/2019  |        | 0.0023 |
| 3/11/2020  |        | <0.001 |
| 9/22/2020  |        | <0.001 |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

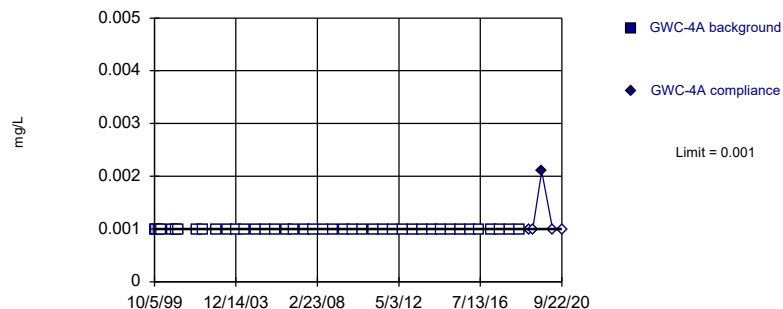
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2      | GWC-2  |
|------------|------------|--------|
| 10/5/1999  | 0.015 (o)  |        |
| 11/12/1999 | <0.001     |        |
| 12/29/1999 | <0.001     |        |
| 2/17/2000  | <0.001     |        |
| 9/13/2000  | <0.001     |        |
| 11/10/2000 | <0.001     |        |
| 1/4/2001   | <0.001     |        |
| 12/11/2001 | <0.001     |        |
| 4/4/2002   | <0.001     |        |
| 12/6/2002  | <0.001     |        |
| 6/28/2003  | <0.001     |        |
| 12/13/2003 | <0.001     |        |
| 5/28/2004  | <0.001     |        |
| 12/10/2004 | <0.001     |        |
| 6/24/2005  | <0.001     |        |
| 12/13/2005 | <0.001     |        |
| 7/12/2006  | <0.001     |        |
| 12/1/2006  | <0.001     |        |
| 6/21/2007  | <0.001     |        |
| 12/15/2007 | <0.001     |        |
| 6/22/2008  | <0.001     |        |
| 12/6/2008  | <0.001     |        |
| 7/11/2009  | <0.001     |        |
| 12/23/2009 | <0.001     |        |
| 6/23/2010  | <0.001     |        |
| 1/8/2011   | <0.001     |        |
| 7/10/2011  | <0.001     |        |
| 1/20/2012  | <0.001     |        |
| 7/12/2012  | <0.001     |        |
| 1/21/2013  | <0.001     |        |
| 7/20/2013  | <0.001     |        |
| 1/17/2014  | <0.001     |        |
| 7/12/2014  | <0.001     |        |
| 1/15/2015  | <0.001     |        |
| 7/15/2015  | <0.001     |        |
| 1/17/2016  | <0.001     |        |
| 6/22/2016  | 0.0019 (J) |        |
| 1/24/2017  | 0.0062     |        |
| 7/19/2017  | 0.0015 (J) |        |
| 1/9/2018   | <0.001     |        |
| 7/10/2018  | <0.001     |        |
| 1/31/2019  |            | <0.001 |
| 3/28/2019  |            | <0.001 |
| 9/12/2019  |            | 0.0018 |
| 3/31/2020  |            | <0.001 |
| 9/22/2020  |            | <0.001 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



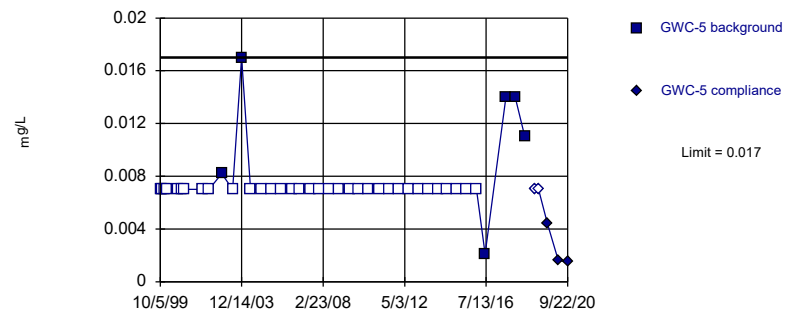
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 41) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



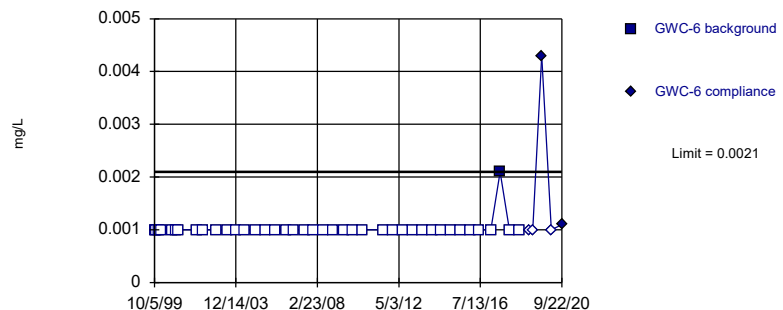
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



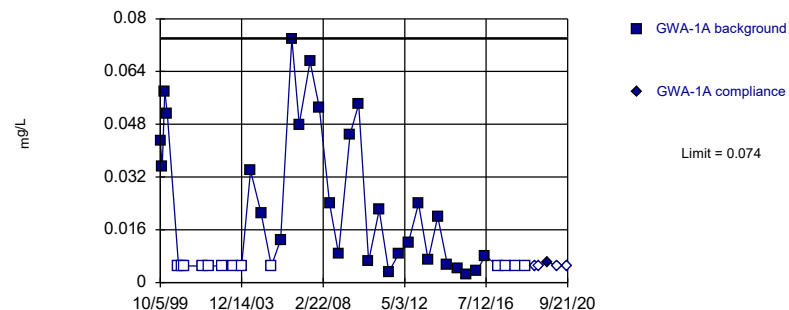
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Vanadium Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 31.71% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A | GWC-4A |
|------------|--------|--------|
| 10/5/1999  | <0.001 |        |
| 11/12/1999 | <0.001 |        |
| 12/29/1999 | <0.001 |        |
| 2/17/2000  | <0.001 |        |
| 9/13/2000  | <0.001 |        |
| 11/10/2000 | <0.001 |        |
| 1/4/2001   | <0.001 |        |
| 12/11/2001 | <0.001 |        |
| 4/4/2002   | <0.001 |        |
| 12/6/2002  | <0.001 |        |
| 6/28/2003  | <0.001 |        |
| 12/13/2003 | <0.001 |        |
| 5/28/2004  | <0.001 |        |
| 12/10/2004 | <0.001 |        |
| 6/24/2005  | <0.001 |        |
| 12/13/2005 | <0.001 |        |
| 7/12/2006  | <0.001 |        |
| 12/1/2006  | <0.001 |        |
| 6/21/2007  | <0.001 |        |
| 12/15/2007 | <0.001 |        |
| 6/21/2008  | <0.001 |        |
| 12/6/2008  | <0.001 |        |
| 7/11/2009  | <0.001 |        |
| 12/23/2009 | <0.001 |        |
| 6/23/2010  | <0.001 |        |
| 1/8/2011   | <0.001 |        |
| 7/10/2011  | <0.001 |        |
| 1/20/2012  | <0.001 |        |
| 7/12/2012  | <0.001 |        |
| 1/21/2013  | <0.001 |        |
| 7/20/2013  | <0.001 |        |
| 1/17/2014  | <0.001 |        |
| 7/11/2014  | <0.001 |        |
| 1/16/2015  | <0.001 |        |
| 7/15/2015  | <0.001 |        |
| 1/17/2016  | <0.001 |        |
| 6/22/2016  | <0.001 |        |
| 1/25/2017  | <0.001 |        |
| 7/20/2017  | <0.001 |        |
| 1/9/2018   | <0.001 |        |
| 7/10/2018  | <0.001 |        |
| 1/30/2019  |        | <0.001 |
| 3/28/2019  |        | <0.001 |
| 9/12/2019  |        | 0.0021 |
| 3/31/2020  |        | <0.001 |
| 9/22/2020  |        | <0.001 |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5      | GWC-5  |
|------------|------------|--------|
| 10/5/1999  | <0.007     |        |
| 11/12/1999 | <0.007     |        |
| 12/29/1999 | <0.007     |        |
| 2/17/2000  | <0.007     |        |
| 9/13/2000  | <0.007     |        |
| 11/10/2000 | <0.007     |        |
| 1/4/2001   | <0.007     |        |
| 12/11/2001 | <0.007     |        |
| 4/4/2002   | <0.007     |        |
| 12/6/2002  | 0.0082     |        |
| 6/28/2003  | <0.007     |        |
| 12/13/2003 | 0.017      |        |
| 5/28/2004  | <0.007     |        |
| 12/10/2004 | <0.007     |        |
| 6/24/2005  | <0.007     |        |
| 12/13/2005 | <0.007     |        |
| 7/12/2006  | <0.007     |        |
| 12/1/2006  | <0.007     |        |
| 6/21/2007  | <0.007     |        |
| 12/15/2007 | <0.007     |        |
| 6/21/2008  | <0.007     |        |
| 12/7/2008  | <0.007     |        |
| 7/11/2009  | <0.007     |        |
| 12/23/2009 | <0.007     |        |
| 6/23/2010  | <0.007     |        |
| 1/8/2011   | <0.007     |        |
| 7/10/2011  | <0.007     |        |
| 1/20/2012  | <0.007     |        |
| 7/12/2012  | <0.007     |        |
| 1/21/2013  | <0.007     |        |
| 7/20/2013  | <0.007     |        |
| 1/17/2014  | <0.007     |        |
| 7/11/2014  | <0.007     |        |
| 1/16/2015  | <0.007     |        |
| 7/15/2015  | <0.007     |        |
| 1/16/2016  | <0.007     |        |
| 6/23/2016  | 0.0021 (J) |        |
| 1/24/2017  | 0.044 (o)  |        |
| 7/20/2017  | 0.014      |        |
| 1/10/2018  | 0.014      |        |
| 7/11/2018  | 0.011 (J)  |        |
| 1/31/2019  |            | <0.007 |
| 3/28/2019  |            | <0.007 |
| 9/12/2019  |            | 0.0044 |
| 3/31/2020  |            | 0.0016 |
| 9/22/2020  |            | 0.0015 |

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6      | GWC-6  |
|------------|------------|--------|
| 10/5/1999  | <0.001     |        |
| 11/12/1999 | <0.001     |        |
| 12/29/1999 | <0.001     |        |
| 2/17/2000  | <0.001     |        |
| 9/13/2000  | <0.001     |        |
| 11/10/2000 | <0.001     |        |
| 1/4/2001   | <0.001     |        |
| 12/11/2001 | <0.001     |        |
| 4/4/2002   | <0.001     |        |
| 12/6/2002  | <0.001     |        |
| 6/28/2003  | <0.001     |        |
| 12/13/2003 | <0.001     |        |
| 5/28/2004  | <0.001     |        |
| 12/10/2004 | <0.001     |        |
| 6/24/2005  | <0.001     |        |
| 12/13/2005 | <0.001     |        |
| 7/12/2006  | <0.001     |        |
| 12/1/2006  | <0.001     |        |
| 6/21/2007  | <0.001     |        |
| 12/15/2007 | <0.001     |        |
| 6/22/2008  | <0.001     |        |
| 12/7/2008  | <0.001     |        |
| 7/11/2009  | <0.001     |        |
| 12/23/2009 | <0.001     |        |
| 6/24/2010  | <0.001     |        |
| 7/11/2011  | <0.001     |        |
| 1/20/2012  | <0.001     |        |
| 7/13/2012  | <0.001     |        |
| 1/21/2013  | <0.001     |        |
| 7/20/2013  | <0.001     |        |
| 1/17/2014  | <0.001     |        |
| 7/12/2014  | <0.001     |        |
| 1/16/2015  | <0.001     |        |
| 7/15/2015  | <0.001     |        |
| 1/16/2016  | <0.001     |        |
| 6/23/2016  | <0.001     |        |
| 1/27/2017  | <0.001     |        |
| 7/20/2017  | 0.0021 (J) |        |
| 1/10/2018  | <0.001     |        |
| 7/11/2018  | <0.001     |        |
| 1/31/2019  |            | <0.001 |
| 3/28/2019  |            | <0.001 |
| 9/12/2019  |            | 0.0043 |
| 3/11/2020  |            | <0.001 |
| 9/22/2020  |            | 0.0011 |



# Prediction Limit

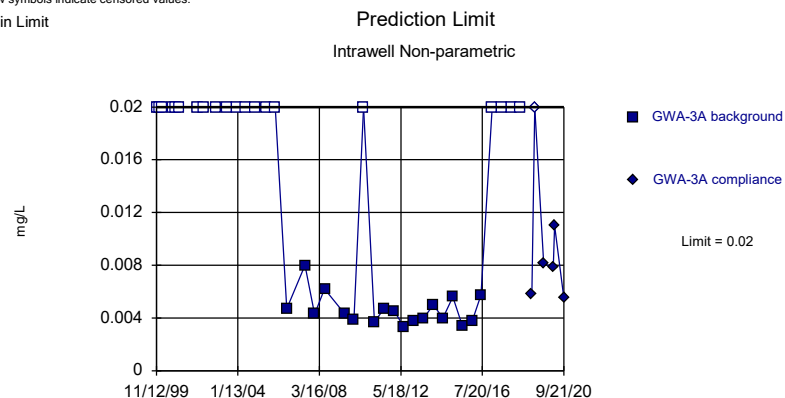
Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A       | GWA-1A |
|------------|--------------|--------|
| 10/5/1999  | 0.043        |        |
| 11/12/1999 | 0.035        |        |
| 12/29/1999 | 0.058        |        |
| 2/17/2000  | 0.051        |        |
| 9/13/2000  | <0.005       |        |
| 11/10/2000 | <0.005       |        |
| 1/4/2001   | <0.005       |        |
| 12/11/2001 | <0.005       |        |
| 4/4/2002   | <0.005       |        |
| 12/6/2002  | <0.005       |        |
| 6/28/2003  | <0.005       |        |
| 12/13/2003 | <0.005       |        |
| 5/28/2004  | 0.034        |        |
| 12/10/2004 | 0.021        |        |
| 6/24/2005  | <0.005       |        |
| 12/13/2005 | 0.013        |        |
| 7/12/2006  | 0.074        |        |
| 12/1/2006  | 0.048        |        |
| 6/21/2007  | 0.067        |        |
| 12/15/2007 | 0.053        |        |
| 6/22/2008  | 0.024        |        |
| 12/7/2008  | 0.0087       |        |
| 7/11/2009  | 0.045        |        |
| 12/23/2009 | 0.054        |        |
| 6/24/2010  | 0.0065       |        |
| 1/9/2011   | 0.022        |        |
| 7/11/2011  | 0.0032       |        |
| 1/20/2012  | 0.0089       |        |
| 7/13/2012  | 0.012        |        |
| 1/21/2013  | 0.024        |        |
| 7/20/2013  | 0.0068       |        |
| 1/17/2014  | 0.02         |        |
| 7/12/2014  | 0.0055       |        |
| 1/16/2015  | 0.0043       |        |
| 7/15/2015  | 0.0026       |        |
| 1/16/2016  | 0.0035       |        |
| 6/22/2016  | 0.00805 (JD) |        |
| 2/28/2017  | <0.005       |        |
| 7/17/2017  | <0.005       |        |
| 1/8/2018   | <0.005       |        |
| 7/10/2018  | <0.005       |        |
| 1/30/2019  |              | <0.005 |
| 3/27/2019  |              | <0.005 |
| 9/11/2019  |              | 0.0062 |
| 3/10/2020  |              | <0.005 |
| 9/21/2020  |              | <0.005 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

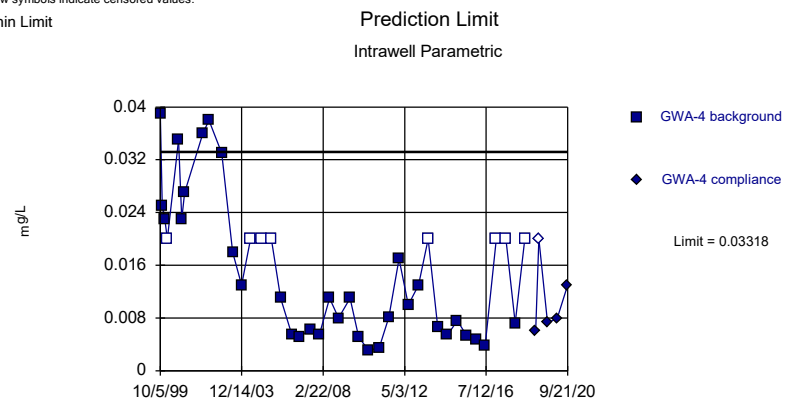


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 38 background values. 52.63% NDs. Well-constituent pair annual alpha = 0.002586. Individual comparison alpha = 0.001294 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

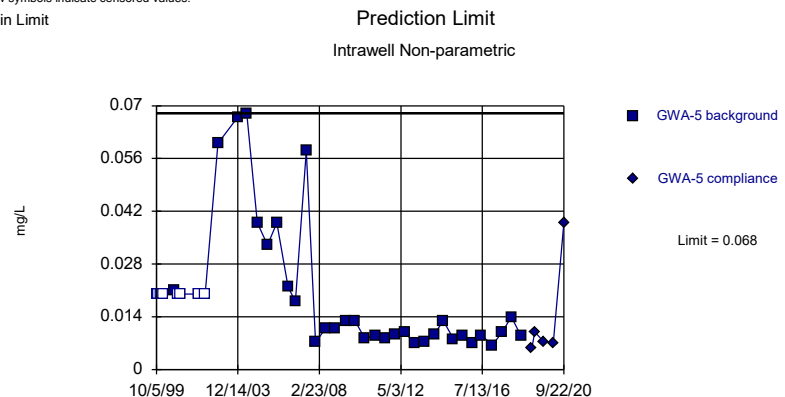


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.1018, Std. Dev.=0.04245, n=41, 19.51% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9227, critical = 0.92. Kappa = 1.892 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

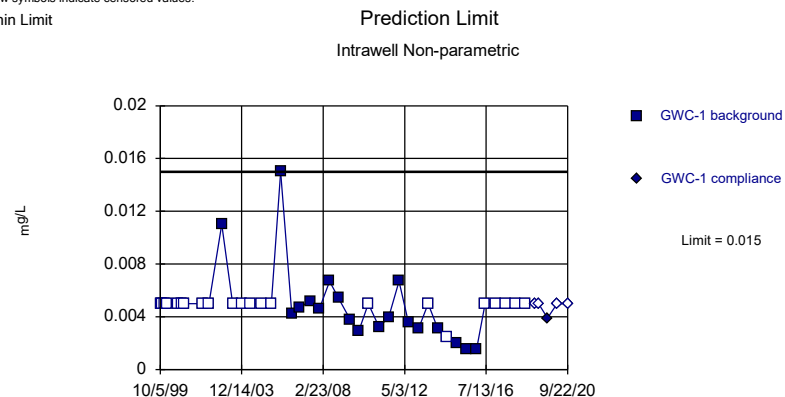


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 20% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 53.66% NDs. Well-constituent pair annual alpha = 0.002235. Individual comparison alpha = 0.001118 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-3A       | GWA-3A     |
|------------|--------------|------------|
| 10/5/1999  | 0.023 (o)    |            |
| 11/12/1999 | <0.02        |            |
| 12/29/1999 | <0.02        |            |
| 2/17/2000  | <0.02        |            |
| 9/13/2000  | <0.02        |            |
| 11/10/2000 | <0.02        |            |
| 1/4/2001   | <0.02        |            |
| 12/11/2001 | <0.02        |            |
| 4/4/2002   | <0.02        |            |
| 12/6/2002  | <0.02        |            |
| 6/28/2003  | <0.02        |            |
| 12/13/2003 | <0.02        |            |
| 5/28/2004  | <0.02        |            |
| 12/10/2004 | <0.02        |            |
| 6/24/2005  | <0.02        |            |
| 12/13/2005 | <0.02        |            |
| 7/12/2006  | 0.0047       |            |
| 12/1/2006  | 0.065 (o)    |            |
| 6/21/2007  | 0.008        |            |
| 12/15/2007 | 0.0043       |            |
| 6/22/2008  | 0.0062       |            |
| 12/6/2008  | 0.051 (o)    |            |
| 7/10/2009  | 0.0043       |            |
| 12/23/2009 | 0.0039       |            |
| 6/23/2010  | <0.02        |            |
| 1/8/2011   | 0.0037       |            |
| 7/10/2011  | 0.0047       |            |
| 1/19/2012  | 0.0045       |            |
| 7/12/2012  | 0.0033       |            |
| 1/21/2013  | 0.0038       |            |
| 7/20/2013  | 0.004        |            |
| 1/17/2014  | 0.005        |            |
| 7/12/2014  | 0.004        |            |
| 1/15/2015  | 0.0056       |            |
| 7/15/2015  | 0.0034       |            |
| 1/16/2016  | 0.0038       |            |
| 6/22/2016  | 0.00575 (JD) |            |
| 1/19/2017  | <0.02        |            |
| 7/18/2017  | <0.02        |            |
| 1/9/2018   | <0.02        |            |
| 7/10/2018  | <0.02        |            |
| 1/30/2019  |              | 0.0058 (J) |
| 3/28/2019  |              | <0.02      |
| 9/12/2019  |              | 0.0081     |
| 3/10/2020  |              | 0.0079     |
| 4/2/2020   |              | 0.011      |
| 9/21/2020  |              | 0.0055     |

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-4      | GWA-4     |
|------------|------------|-----------|
| 10/5/1999  | 0.039      |           |
| 11/12/1999 | 0.025      |           |
| 12/29/1999 | 0.023      |           |
| 2/17/2000  | <0.02      |           |
| 9/13/2000  | 0.035      |           |
| 11/10/2000 | 0.023      |           |
| 1/4/2001   | 0.027      |           |
| 12/11/2001 | 0.036      |           |
| 4/4/2002   | 0.038      |           |
| 12/6/2002  | 0.033      |           |
| 6/28/2003  | 0.018      |           |
| 12/13/2003 | 0.013      |           |
| 5/28/2004  | <0.02      |           |
| 12/10/2004 | <0.02      |           |
| 6/24/2005  | <0.02      |           |
| 12/13/2005 | 0.011      |           |
| 7/12/2006  | 0.0055     |           |
| 12/1/2006  | 0.0052     |           |
| 6/21/2007  | 0.0062     |           |
| 12/15/2007 | 0.0055     |           |
| 6/21/2008  | 0.011      |           |
| 12/6/2008  | 0.008      |           |
| 7/11/2009  | 0.011      |           |
| 12/23/2009 | 0.0051     |           |
| 6/23/2010  | 0.0031     |           |
| 1/8/2011   | 0.0035     |           |
| 7/10/2011  | 0.0081     |           |
| 1/19/2012  | 0.017      |           |
| 7/12/2012  | 0.01       |           |
| 1/21/2013  | 0.013      |           |
| 7/20/2013  | <0.02      |           |
| 1/17/2014  | 0.0066     |           |
| 7/12/2014  | 0.0054     |           |
| 1/15/2015  | 0.0076     |           |
| 7/15/2015  | 0.0053     |           |
| 1/16/2016  | 0.0048     |           |
| 6/22/2016  | 0.0038 (J) |           |
| 1/19/2017  | <0.02      |           |
| 7/18/2017  | <0.02      |           |
| 1/9/2018   | 0.0072 (J) |           |
| 7/10/2018  | <0.02      |           |
| 1/30/2019  |            | 0.006 (J) |
| 3/28/2019  |            | <0.02     |
| 9/12/2019  |            | 0.0073    |
| 3/10/2020  |            | 0.0079    |
| 9/21/2020  |            | 0.013     |

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-5      | GWA-5      |
|------------|------------|------------|
| 10/5/1999  | <0.02      |            |
| 11/12/1999 | <0.02      |            |
| 12/29/1999 | <0.02      |            |
| 2/17/2000  | <0.02      |            |
| 9/13/2000  | 0.021      |            |
| 11/10/2000 | <0.02      |            |
| 1/4/2001   | <0.02      |            |
| 12/11/2001 | <0.02      |            |
| 4/4/2002   | <0.02      |            |
| 12/6/2002  | 0.06       |            |
| 6/28/2003  | 0.19 (o)   |            |
| 12/13/2003 | 0.067      |            |
| 5/28/2004  | 0.068      |            |
| 12/10/2004 | 0.039      |            |
| 6/24/2005  | 0.033      |            |
| 12/13/2005 | 0.039      |            |
| 7/12/2006  | 0.022      |            |
| 12/1/2006  | 0.018      |            |
| 6/21/2007  | 0.058      |            |
| 12/15/2007 | 0.0072     |            |
| 6/22/2008  | 0.011      |            |
| 12/6/2008  | 0.011      |            |
| 7/11/2009  | 0.013      |            |
| 12/22/2009 | 0.013      |            |
| 6/23/2010  | 0.0084     |            |
| 1/8/2011   | 0.0089     |            |
| 7/10/2011  | 0.0084     |            |
| 1/20/2012  | 0.0094     |            |
| 7/12/2012  | 0.0098     |            |
| 1/21/2013  | 0.007      |            |
| 7/20/2013  | 0.0074     |            |
| 1/17/2014  | 0.0092     |            |
| 7/12/2014  | 0.013      |            |
| 1/16/2015  | 0.0081     |            |
| 7/15/2015  | 0.009      |            |
| 1/16/2016  | 0.007      |            |
| 6/22/2016  | 0.0091 (J) |            |
| 1/19/2017  | 0.0065 (J) |            |
| 7/19/2017  | 0.0099 (J) |            |
| 1/9/2018   | 0.014 (J)  |            |
| 7/10/2018  | 0.0089 (J) |            |
| 1/30/2019  |            | 0.0057 (J) |
| 3/27/2019  |            | 0.01 (J)   |
| 9/12/2019  |            | 0.0074     |
| 3/10/2020  |            | 0.0071     |
| 9/22/2020  |            | 0.039      |

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

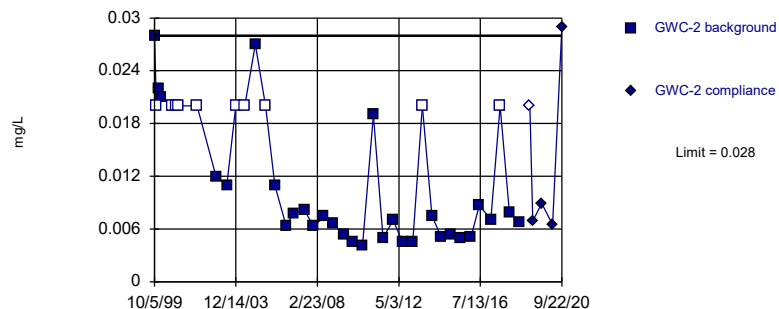
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-1       | GWC-1      |
|------------|-------------|------------|
| 10/5/1999  | <0.005      |            |
| 11/12/1999 | <0.005      |            |
| 12/29/1999 | <0.005      |            |
| 2/17/2000  | <0.005      |            |
| 9/13/2000  | <0.005      |            |
| 11/10/2000 | <0.005      |            |
| 1/4/2001   | <0.005      |            |
| 12/11/2001 | <0.005      |            |
| 4/4/2002   | <0.005      |            |
| 12/6/2002  | 0.011       |            |
| 6/28/2003  | <0.005      |            |
| 12/13/2003 | <0.005      |            |
| 5/28/2004  | <0.005      |            |
| 12/10/2004 | <0.005      |            |
| 6/24/2005  | <0.005      |            |
| 12/13/2005 | 0.015       |            |
| 7/12/2006  | 0.0042      |            |
| 12/1/2006  | 0.0047      |            |
| 6/21/2007  | 0.0052      |            |
| 12/15/2007 | 0.0046      |            |
| 6/21/2008  | 0.0067      |            |
| 12/6/2008  | 0.0054      |            |
| 7/11/2009  | 0.0038      |            |
| 12/23/2009 | 0.0029      |            |
| 6/23/2010  | <0.005      |            |
| 1/8/2011   | 0.0032      |            |
| 7/10/2011  | 0.004       |            |
| 1/20/2012  | 0.0067      |            |
| 7/12/2012  | 0.0036      |            |
| 1/21/2013  | 0.0031      |            |
| 7/20/2013  | <0.005      |            |
| 1/17/2014  | 0.0031      |            |
| 7/12/2014  | <0.0025 (J) |            |
| 1/16/2015  | 0.002 (J)   |            |
| 7/15/2015  | 0.0015 (J)  |            |
| 1/16/2016  | 0.0015 (J)  |            |
| 6/22/2016  | <0.005      |            |
| 1/23/2017  | <0.005      |            |
| 7/19/2017  | <0.005      |            |
| 1/9/2018   | <0.005      |            |
| 7/11/2018  | <0.005      |            |
| 1/30/2019  |             | <0.005     |
| 3/28/2019  |             | <0.005     |
| 9/12/2019  |             | 0.0039 (J) |
| 3/11/2020  |             | <0.005     |
| 9/22/2020  |             | <0.005     |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Exceeds Limit

### Prediction Limit Intrawell Non-parametric



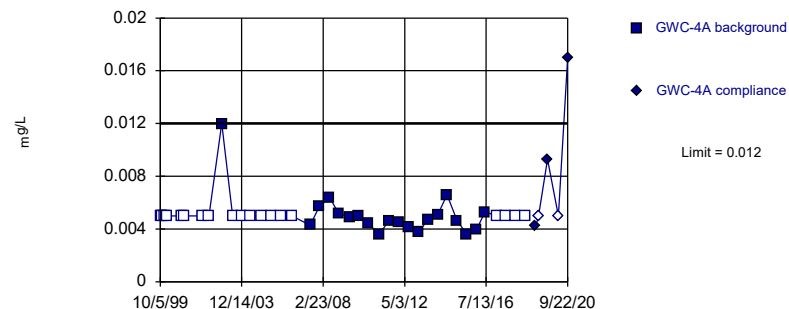
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 25% NDs. Well-constituent pair annual alpha = 0.002316. Individual comparison alpha = 0.001159 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Exceeds Limit

### Prediction Limit Intrawell Non-parametric



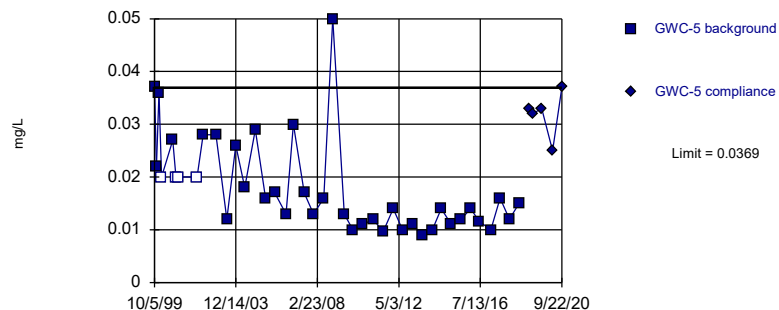
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 48.72% NDs. Well-constituent pair annual alpha = 0.002451. Individual comparison alpha = 0.001226 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Exceeds Limit

### Prediction Limit Intrawell Parametric



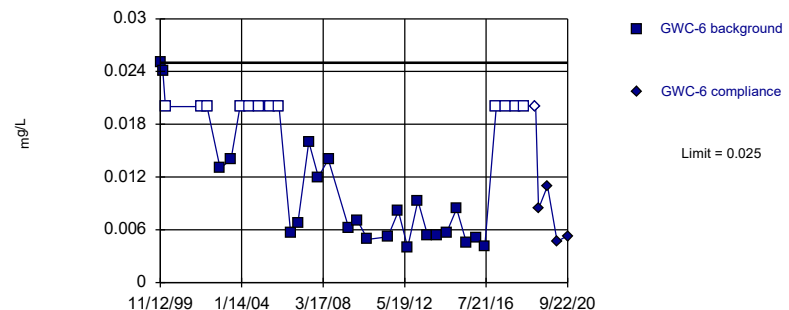
Background Data Summary (based on natural log transformation): Mean=-4.113, Std. Dev.=0.43, n=41, 9.756% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9313, critical = 0.92. Kappa = 1.892 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 35 background values. 34.29% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

Constituent: Zinc Analysis Run 12/2/2020 12:30 PM View: EPD  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-2      | GWC-2      |
|------------|------------|------------|
| 10/5/1999  | 0.028      |            |
| 11/12/1999 | <0.02      |            |
| 12/29/1999 | 0.022      |            |
| 2/17/2000  | 0.021      |            |
| 9/13/2000  | <0.02      |            |
| 11/10/2000 | <0.02      |            |
| 1/4/2001   | <0.02      |            |
| 12/11/2001 | <0.02      |            |
| 4/4/2002   | 0.069 (o)  |            |
| 12/6/2002  | 0.012      |            |
| 6/28/2003  | 0.011      |            |
| 12/13/2003 | <0.02      |            |
| 5/28/2004  | <0.02      |            |
| 12/10/2004 | 0.027      |            |
| 6/24/2005  | <0.02      |            |
| 12/13/2005 | 0.011      |            |
| 7/12/2006  | 0.0064     |            |
| 12/1/2006  | 0.0077     |            |
| 6/21/2007  | 0.0082     |            |
| 12/15/2007 | 0.0063     |            |
| 6/22/2008  | 0.0074     |            |
| 12/6/2008  | 0.0066     |            |
| 7/11/2009  | 0.0054     |            |
| 12/23/2009 | 0.0046     |            |
| 6/23/2010  | 0.0041     |            |
| 1/8/2011   | 0.019      |            |
| 7/10/2011  | 0.005      |            |
| 1/20/2012  | 0.007      |            |
| 7/12/2012  | 0.0045     |            |
| 1/21/2013  | 0.0045     |            |
| 7/20/2013  | <0.02      |            |
| 1/17/2014  | 0.0075     |            |
| 7/12/2014  | 0.0051     |            |
| 1/15/2015  | 0.0054     |            |
| 7/15/2015  | 0.0049     |            |
| 1/17/2016  | 0.0051     |            |
| 6/22/2016  | 0.0087 (J) |            |
| 1/24/2017  | 0.0071 (J) |            |
| 7/19/2017  | <0.02      |            |
| 1/9/2018   | 0.0079 (J) |            |
| 7/10/2018  | 0.0067 (J) |            |
| 1/31/2019  |            | <0.02      |
| 3/28/2019  |            | 0.0069 (J) |
| 9/12/2019  |            | 0.0089     |
| 3/31/2020  |            | 0.0065     |
| 9/22/2020  |            | 0.029      |



# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-4A     | GWC-4A     |
|------------|------------|------------|
| 10/5/1999  | <0.005     |            |
| 11/12/1999 | <0.005     |            |
| 12/29/1999 | <0.005     |            |
| 2/17/2000  | <0.005     |            |
| 9/13/2000  | 0.036 (o)  |            |
| 11/10/2000 | <0.005     |            |
| 1/4/2001   | <0.005     |            |
| 12/11/2001 | <0.005     |            |
| 4/4/2002   | <0.005     |            |
| 12/6/2002  | 0.012      |            |
| 6/28/2003  | <0.005     |            |
| 12/13/2003 | <0.005     |            |
| 5/28/2004  | <0.005     |            |
| 12/10/2004 | <0.005     |            |
| 6/24/2005  | <0.005     |            |
| 12/13/2005 | <0.005     |            |
| 7/12/2006  | <0.005     |            |
| 12/1/2006  | 0.098 (o)  |            |
| 6/21/2007  | 0.0043     |            |
| 12/15/2007 | 0.0057     |            |
| 6/21/2008  | 0.0064     |            |
| 12/6/2008  | 0.0052     |            |
| 7/11/2009  | 0.0049     |            |
| 12/23/2009 | 0.005      |            |
| 6/23/2010  | 0.0044     |            |
| 1/8/2011   | 0.0036     |            |
| 7/10/2011  | 0.0046     |            |
| 1/20/2012  | 0.0045     |            |
| 7/12/2012  | 0.0041     |            |
| 1/21/2013  | 0.0038     |            |
| 7/20/2013  | 0.0047     |            |
| 1/17/2014  | 0.0051     |            |
| 7/11/2014  | 0.0066     |            |
| 1/16/2015  | 0.0046     |            |
| 7/15/2015  | 0.0036     |            |
| 1/17/2016  | 0.004      |            |
| 6/22/2016  | 0.0053 (J) |            |
| 1/25/2017  | <0.005     |            |
| 7/20/2017  | <0.005     |            |
| 1/9/2018   | <0.005     |            |
| 7/10/2018  | <0.005     |            |
| 1/30/2019  |            | 0.0042 (J) |
| 3/28/2019  |            | <0.005     |
| 9/12/2019  |            | 0.0093     |
| 3/31/2020  |            | <0.005     |
| 9/22/2020  |            | 0.017      |

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-5     | GWC-5 |
|------------|-----------|-------|
| 10/5/1999  | 0.037     |       |
| 11/12/1999 | 0.022     |       |
| 12/29/1999 | 0.036     |       |
| 2/17/2000  | <0.02     |       |
| 9/13/2000  | 0.027     |       |
| 11/10/2000 | <0.02     |       |
| 1/4/2001   | <0.02     |       |
| 12/11/2001 | <0.02     |       |
| 4/4/2002   | 0.028     |       |
| 12/6/2002  | 0.028     |       |
| 6/28/2003  | 0.012     |       |
| 12/13/2003 | 0.026     |       |
| 5/28/2004  | 0.018     |       |
| 12/10/2004 | 0.029     |       |
| 6/24/2005  | 0.016     |       |
| 12/13/2005 | 0.017     |       |
| 7/12/2006  | 0.013     |       |
| 12/1/2006  | 0.03      |       |
| 6/21/2007  | 0.017     |       |
| 12/15/2007 | 0.013     |       |
| 6/21/2008  | 0.016     |       |
| 12/7/2008  | 0.05      |       |
| 7/11/2009  | 0.013     |       |
| 12/23/2009 | 0.01      |       |
| 6/23/2010  | 0.011     |       |
| 1/8/2011   | 0.012     |       |
| 7/10/2011  | 0.0096    |       |
| 1/20/2012  | 0.014     |       |
| 7/12/2012  | 0.01      |       |
| 1/21/2013  | 0.011     |       |
| 7/20/2013  | 0.0089    |       |
| 1/17/2014  | 0.0098    |       |
| 7/11/2014  | 0.014     |       |
| 1/16/2015  | 0.011     |       |
| 7/15/2015  | 0.012     |       |
| 1/16/2016  | 0.014     |       |
| 6/23/2016  | 0.0116    |       |
| 1/24/2017  | 0.01 (J)  |       |
| 7/20/2017  | 0.016 (J) |       |
| 1/10/2018  | 0.012 (J) |       |
| 7/11/2018  | 0.015 (J) |       |
| 1/31/2019  |           | 0.033 |
| 3/28/2019  |           | 0.032 |
| 9/12/2019  |           | 0.033 |
| 3/31/2020  |           | 0.025 |
| 9/22/2020  |           | 0.037 |

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:31 PM View: EPD

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWC-6      | GWC-6      |
|------------|------------|------------|
| 10/5/1999  | 0.063 (o)  |            |
| 11/12/1999 | 0.025      |            |
| 12/29/1999 | 0.024      |            |
| 2/17/2000  | <0.02      |            |
| 9/13/2000  | 0.061 (o)  |            |
| 11/10/2000 | 0.061 (o)  |            |
| 1/4/2001   | 0.05 (o)   |            |
| 12/11/2001 | <0.02      |            |
| 4/4/2002   | <0.02      |            |
| 12/6/2002  | 0.013      |            |
| 6/28/2003  | 0.014      |            |
| 12/13/2003 | <0.02      |            |
| 5/28/2004  | <0.02      |            |
| 12/10/2004 | <0.02      |            |
| 6/24/2005  | <0.02      |            |
| 12/13/2005 | <0.02      |            |
| 7/12/2006  | 0.0057     |            |
| 12/1/2006  | 0.0068     |            |
| 6/21/2007  | 0.016      |            |
| 12/15/2007 | 0.012      |            |
| 6/22/2008  | 0.014      |            |
| 12/7/2008  | 0.044 (o)  |            |
| 7/11/2009  | 0.0062     |            |
| 12/23/2009 | 0.007      |            |
| 6/24/2010  | 0.0049     |            |
| 7/11/2011  | 0.0052     |            |
| 1/20/2012  | 0.0081     |            |
| 7/13/2012  | 0.004      |            |
| 1/21/2013  | 0.0093     |            |
| 7/20/2013  | 0.0054     |            |
| 1/17/2014  | 0.0054     |            |
| 7/12/2014  | 0.0057     |            |
| 1/16/2015  | 0.0084     |            |
| 7/15/2015  | 0.0046     |            |
| 1/16/2016  | 0.0051     |            |
| 6/23/2016  | 0.0041 (J) |            |
| 1/27/2017  | <0.02      |            |
| 7/20/2017  | <0.02      |            |
| 1/10/2018  | <0.02      |            |
| 7/11/2018  | <0.02      |            |
| 1/31/2019  |            | <0.02      |
| 3/28/2019  |            | 0.0084 (J) |
| 9/12/2019  |            | 0.011      |
| 3/11/2020  |            | 0.0047 (J) |
| 9/22/2020  |            | 0.0053     |

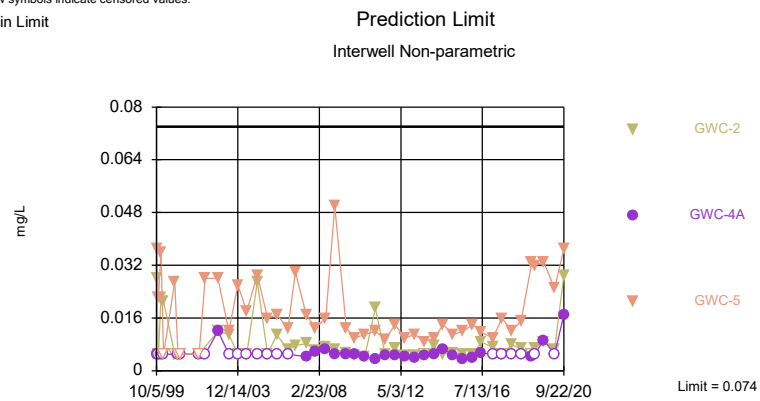
FIGURE I.

# Interwell Prediction Limits (Intrawell Exceedances)

Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR    Printed 12/2/2020, 12:40 PM

| Constituent | Well   | Upper Lim. | Lower Lim. | Date      | Observ. | Sig. | Bg  | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha      | Method                      |
|-------------|--------|------------|------------|-----------|---------|------|-----|-----|------|-----------|------|---------|-----------|------------|-----------------------------|
| Zinc (mg/L) | GWC-2  | 0.074      | n/a        | 9/22/2020 | 0.029   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |
| Zinc (mg/L) | GWC-4A | 0.074      | n/a        | 9/22/2020 | 0.017   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |
| Zinc (mg/L) | GWC-5  | 0.074      | n/a        | 9/22/2020 | 0.037   | No   | 191 | n/a |      | n/a       | 28.8 | n/a     | n/a       | 0.00005435 | NP Inter (normality) 1 of 2 |

Sanitas™ v.9.6.27 . UG  
Hollow symbols indicate censored values.  
Within Limit



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 191 background values. 28.8% NDs. Annual per-constituent alpha = 0.0005433. Individual comparison alpha = 0.00005435 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Zinc Analysis Run 12/2/2020 12:39 PM View: EPD Exceedances  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:40 PM View: EPD Exceedances

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|            | GWA-1A (bg)  | GWA-4 (bg) | GWC-2      | GWC-4A     | GWC-5    | GWA-5 (bg) | GWA-3A (bg)  | GWA-2B (bg) | GWA-7A (bg) |
|------------|--------------|------------|------------|------------|----------|------------|--------------|-------------|-------------|
| 10/5/1999  | 0.043        | 0.039      | 0.028      | <0.005     | 0.037    | <0.005     | 0.023 (o)    |             |             |
| 11/12/1999 | 0.035        | 0.025      | <0.005     | <0.005     | 0.022    | <0.005     | <0.005       |             |             |
| 12/29/1999 | 0.058        | 0.023      | 0.022      | <0.005     | 0.036    | <0.005     | <0.005       |             |             |
| 2/17/2000  | 0.051        | <0.005     | 0.021      | <0.005     | <0.005   | <0.005     | <0.005       |             |             |
| 9/13/2000  | <0.005       | 0.035      | <0.005     | 0.036 (o)  | 0.027    | 0.021      | <0.005       |             |             |
| 11/10/2000 | <0.005       | 0.023      | <0.005     | <0.005     | <0.005   | <0.005     | <0.005       |             |             |
| 1/4/2001   | <0.005       | 0.027      | <0.005     | <0.005     | <0.005   | <0.005     | <0.005       |             |             |
| 12/11/2001 | <0.005       | 0.036      | <0.005     | <0.005     | <0.005   | <0.005     | <0.005       |             |             |
| 4/4/2002   | <0.005       | 0.038      | 0.069 (o)  | <0.005     | 0.028    | <0.005     | <0.005       |             |             |
| 12/6/2002  | <0.005       | 0.033      | 0.012      | 0.012      | 0.028    | 0.06       | <0.005       |             |             |
| 6/28/2003  | <0.005       | 0.018      | 0.011      | <0.005     | 0.012    | 0.19 (o)   | <0.005       |             |             |
| 12/13/2003 | <0.005       | 0.013      | <0.005     | <0.005     | 0.026    | 0.067      | <0.005       |             |             |
| 5/28/2004  | 0.034        | <0.005     | <0.005     | <0.005     | 0.018    | 0.068      | <0.005       |             |             |
| 12/10/2004 | 0.021        | <0.005     | 0.027      | <0.005     | 0.029    | 0.039      | <0.005       |             |             |
| 6/24/2005  | <0.005       | <0.005     | <0.005     | <0.005     | 0.016    | 0.033      | <0.005       |             |             |
| 12/13/2005 | 0.013        | 0.011      | 0.011      | <0.005     | 0.017    | 0.039      | <0.005       |             |             |
| 7/12/2006  | 0.074        | 0.0055     | 0.0064     | <0.005     | 0.013    | 0.022      | 0.0047       |             |             |
| 12/1/2006  | 0.048        | 0.0052     | 0.0077     | 0.098 (o)  | 0.03     | 0.018      | 0.065 (o)    |             |             |
| 6/21/2007  | 0.067        | 0.0062     | 0.0082     | 0.0043     | 0.017    | 0.058      | 0.008        |             |             |
| 12/15/2007 | 0.053        | 0.0055     | 0.0063     | 0.0057     | 0.013    | 0.0072     | 0.0043       |             |             |
| 6/21/2008  |              | 0.011      |            | 0.0064     | 0.016    |            |              |             |             |
| 6/22/2008  | 0.024        |            | 0.0074     |            |          | 0.011      | 0.0062       |             |             |
| 12/6/2008  |              | 0.008      | 0.0066     | 0.0052     |          | 0.011      | 0.051 (o)    |             |             |
| 12/7/2008  | 0.0087       |            |            |            | 0.05     |            |              |             |             |
| 7/10/2009  |              |            |            |            |          |            | 0.0043       |             |             |
| 7/11/2009  | 0.045        | 0.011      | 0.0054     | 0.0049     | 0.013    | 0.013      |              |             |             |
| 12/22/2009 |              |            |            |            |          | 0.013      |              |             |             |
| 12/23/2009 | 0.054        | 0.0051     | 0.0046     | 0.005      | 0.01     |            | 0.0039       |             |             |
| 6/23/2010  |              | 0.0031     | 0.0041     | 0.0044     | 0.011    | 0.0084     | <0.005       |             |             |
| 6/24/2010  | 0.0065       |            |            |            |          |            |              |             |             |
| 1/8/2011   |              | 0.0035     | 0.019      | 0.0036     | 0.012    | 0.0089     | 0.0037       |             |             |
| 1/9/2011   | 0.022        |            |            |            |          |            |              |             |             |
| 7/10/2011  |              | 0.0081     | 0.005      | 0.0046     | 0.0096   | 0.0084     | 0.0047       |             |             |
| 7/11/2011  | 0.0032       |            |            |            |          |            |              |             |             |
| 1/19/2012  |              | 0.017      |            |            |          |            | 0.0045       |             |             |
| 1/20/2012  | 0.0089       |            | 0.007      | 0.0045     | 0.014    | 0.0094     |              |             |             |
| 7/12/2012  |              | 0.01       | 0.0045     | 0.0041     | 0.01     | 0.0098     | 0.0033       |             |             |
| 7/13/2012  | 0.012        |            |            |            |          |            |              |             |             |
| 1/21/2013  | 0.024        | 0.013      | 0.0045     | 0.0038     | 0.011    | 0.007      | 0.0038       |             |             |
| 7/20/2013  | 0.0068       | <0.005     | <0.005     | 0.0047     | 0.0089   | 0.0074     | 0.004        |             |             |
| 1/17/2014  | 0.02         | 0.0066     | 0.0075     | 0.0051     | 0.0098   | 0.0092     | 0.005        |             |             |
| 7/11/2014  |              |            |            | 0.0066     | 0.014    |            |              |             |             |
| 7/12/2014  | 0.0055       | 0.0054     | 0.0051     |            |          | 0.013      | 0.004        |             |             |
| 1/15/2015  |              | 0.0076     | 0.0054     |            |          |            | 0.0056       |             |             |
| 1/16/2015  | 0.0043       |            |            | 0.0046     | 0.011    | 0.0081     |              |             |             |
| 7/15/2015  | 0.0026       | 0.0053     | 0.0049     | 0.0036     | 0.012    | 0.009      | 0.0034       |             |             |
| 1/16/2016  | 0.0035       | 0.0048     |            |            | 0.014    | 0.007      | 0.0038       |             |             |
| 1/17/2016  |              |            | 0.0051     | 0.004      |          |            |              |             |             |
| 6/22/2016  | 0.00805 (JD) | 0.0038 (J) | 0.0087 (J) | 0.0053 (J) |          | 0.0091 (J) | 0.00575 (JD) |             |             |
| 6/23/2016  |              |            |            |            | 0.0116   |            |              |             |             |
| 1/19/2017  |              | <0.005     |            |            |          | 0.0065 (J) | <0.005       |             |             |
| 1/24/2017  |              |            | 0.0071 (J) |            | 0.01 (J) |            |              |             |             |

# Prediction Limit

Page 2

Constituent: Zinc (mg/L) Analysis Run 12/2/2020 12:40 PM View: EPD Exceedances  
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

|           | GWA-1A (bg) | GWA-4 (bg) | GWC-2      | GWC-4A     | GWC-5     | GWA-5 (bg) | GWA-3A (bg) | GWA-2B (bg) | GWA-7A (bg) |
|-----------|-------------|------------|------------|------------|-----------|------------|-------------|-------------|-------------|
| 1/25/2017 |             |            |            | <0.005     |           |            |             |             |             |
| 2/28/2017 | <0.005      |            |            |            |           |            |             |             |             |
| 7/17/2017 | <0.005      |            |            |            |           |            |             |             |             |
| 7/18/2017 |             | <0.005     |            |            |           |            | <0.005      |             |             |
| 7/19/2017 |             |            | <0.005     |            |           | 0.0099 (J) |             |             |             |
| 7/20/2017 |             |            |            | <0.005     | 0.016 (J) |            |             |             |             |
| 1/8/2018  | <0.005      |            |            |            |           |            |             |             |             |
| 1/9/2018  |             | 0.0072 (J) | 0.0079 (J) | <0.005     |           | 0.014 (J)  | <0.005      |             |             |
| 1/10/2018 |             |            |            |            | 0.012 (J) |            |             |             |             |
| 7/10/2018 | <0.005      | <0.005     | 0.0067 (J) | <0.005     |           | 0.0089 (J) | <0.005      |             |             |
| 7/11/2018 |             |            |            |            | 0.015 (J) |            |             |             |             |
| 1/30/2019 | <0.005      | 0.006 (J)  |            | 0.0042 (J) |           | 0.0057 (J) | 0.0058 (J)  | 0.013 (J)   | 0.011 (J)   |
| 1/31/2019 |             |            | <0.005     |            | 0.033     |            |             |             |             |
| 3/27/2019 | <0.005      |            |            |            |           | 0.01 (J)   |             |             |             |
| 3/28/2019 |             | <0.005     | 0.0069 (J) | <0.005     | 0.032     |            | <0.005      | 0.014 (J)   | 0.0086 (J)  |
| 9/11/2019 | 0.0062      |            |            |            |           |            |             |             |             |
| 9/12/2019 |             | 0.0073     | 0.0089     | 0.0093     | 0.033     | 0.0074     | 0.0081      | 0.0075      | 0.014       |
| 3/10/2020 | <0.005      | 0.0079     |            |            |           | 0.0071     | 0.0079      | 0.0061      |             |
| 3/11/2020 |             |            |            |            |           |            |             |             | 0.0099      |
| 3/31/2020 |             |            | 0.0065     | <0.005     | 0.025     |            |             |             |             |
| 4/2/2020  |             |            |            |            |           |            | 0.011       |             |             |
| 9/21/2020 | <0.005      | 0.013      |            |            |           |            | 0.0055      |             | 0.007       |
| 9/22/2020 |             |            | 0.029      | 0.017      | 0.037     | 0.039      |             | 0.0066      |             |



FIGURE J.

# Trend Test - Significant Results

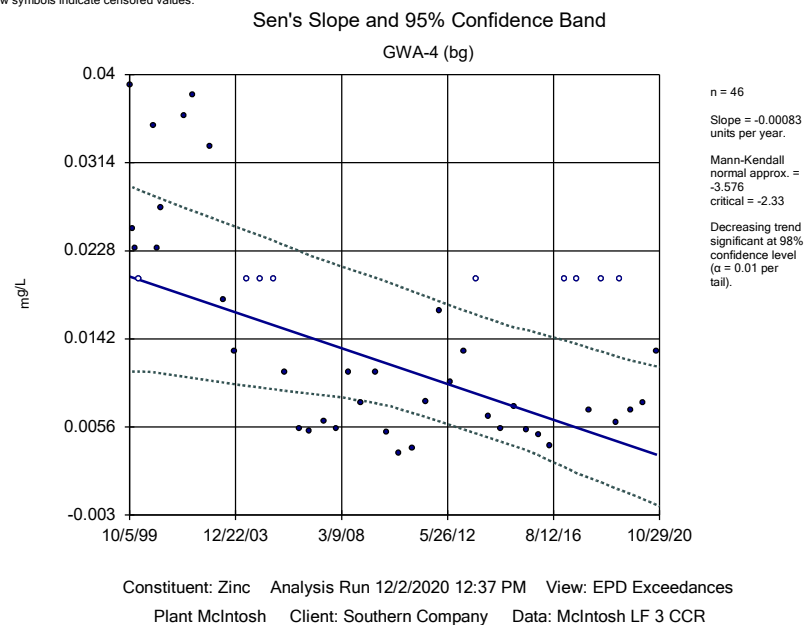
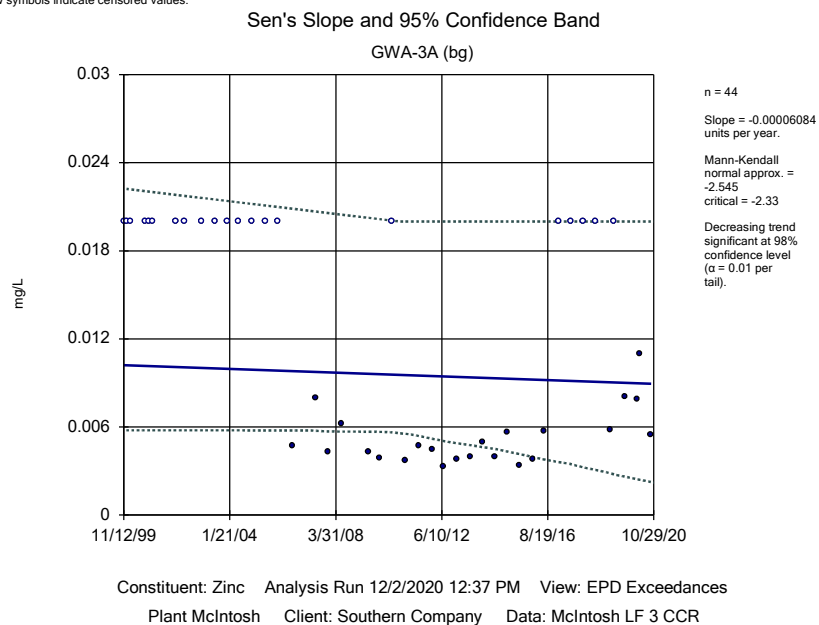
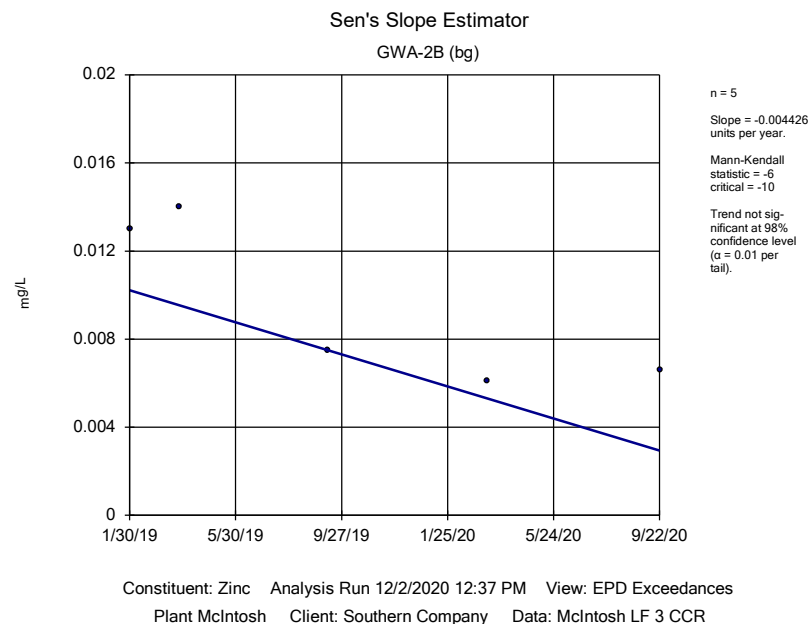
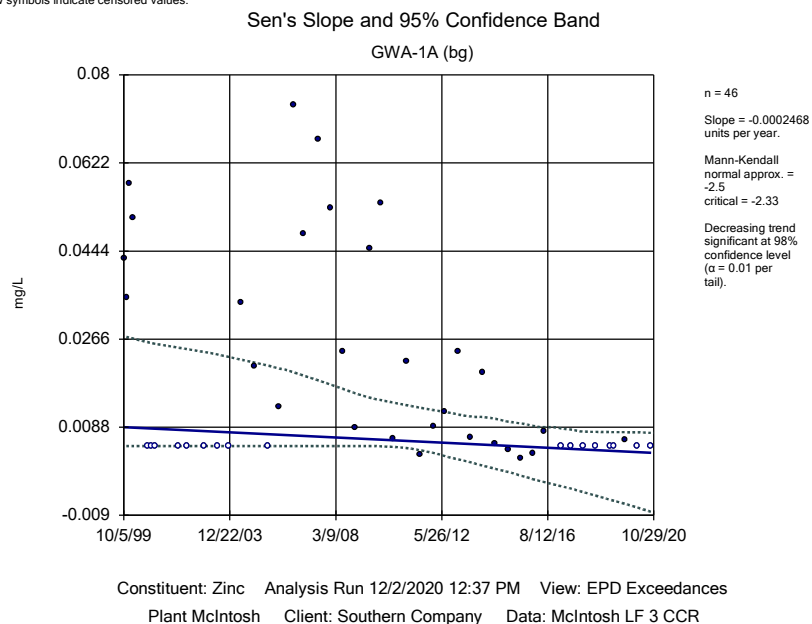
Plant McIntosh   Client: Southern Company   Data: McIntosh LF 3 CCR   Printed 12/2/2020, 12:38 PM

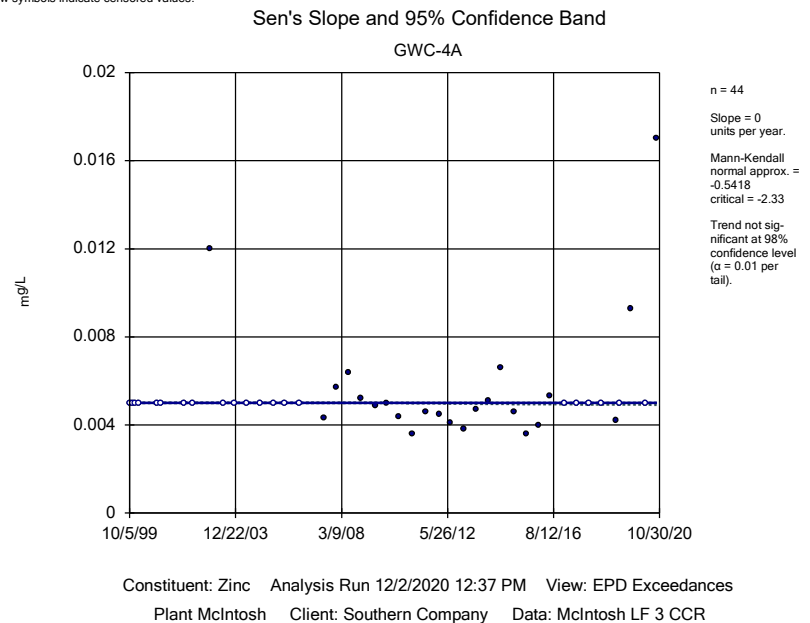
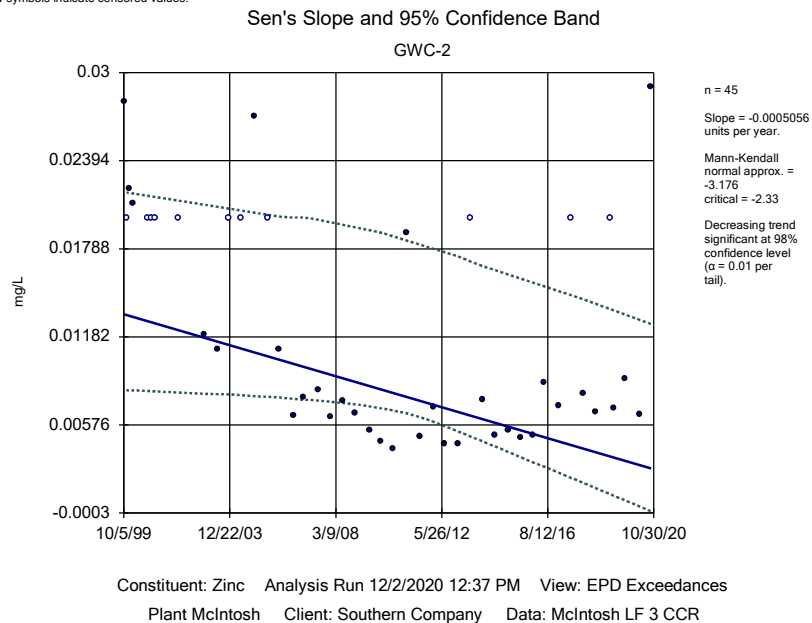
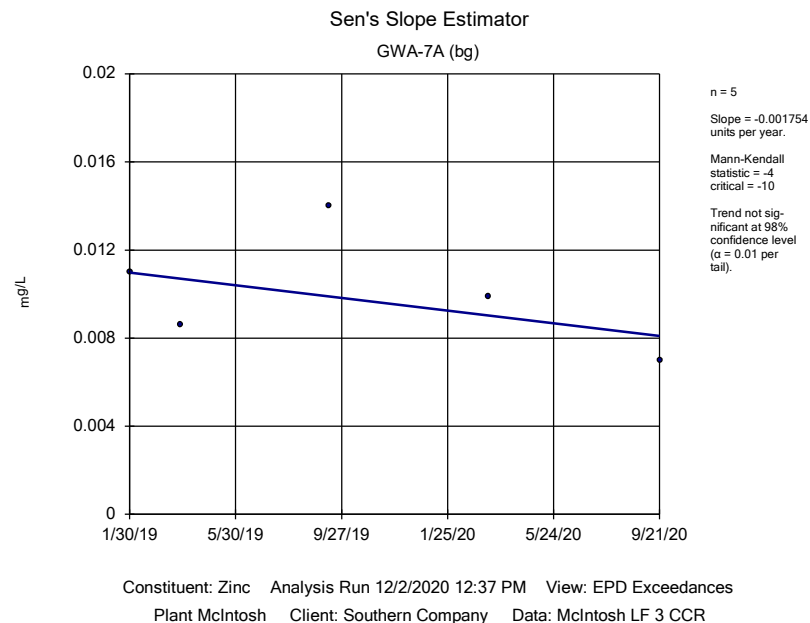
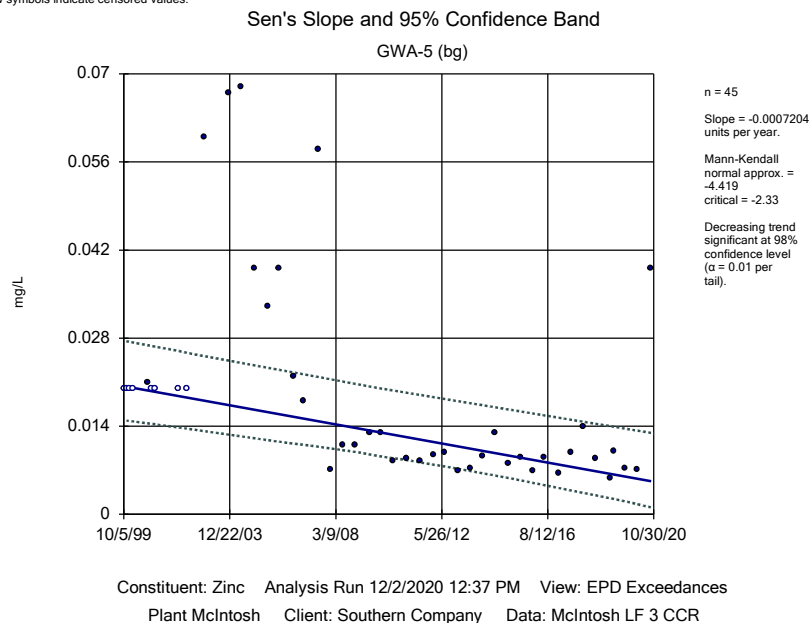
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Zinc (mg/L)        | GWA-1A (bg) | -0.0002468   | -2.5         | -2.33           | Yes         | 46       | 36.96       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-3A (bg) | -0.00006084  | -2.545       | -2.33           | Yes         | 44       | 47.73       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-4 (bg)  | -0.00083     | -3.576       | -2.33           | Yes         | 46       | 19.57       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWA-5 (bg)  | -0.0007204   | -4.419       | -2.33           | Yes         | 45       | 17.78       | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWC-2       | -0.0005056   | -3.176       | -2.33           | Yes         | 45       | 24.44       | n/a              | n/a          | 0.02         | NP            |

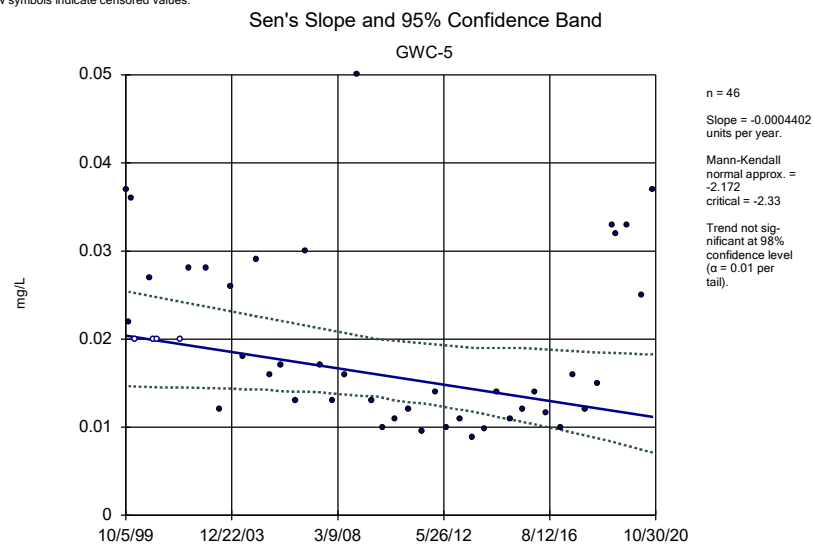
# Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 12/2/2020, 12:38 PM

| <u>Constituent</u> | <u>Well</u>        | <u>Slope</u>      | <u>Calc.</u>  | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------------|-------------------|---------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| <b>Zinc (mg/L)</b> | <b>GWA-1A (bg)</b> | <b>-0.0002468</b> | <b>-2.5</b>   | <b>-2.33</b>    | <b>Yes</b>  | <b>46</b> | <b>36.96</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWA-2B (bg)        | -0.004426         | -6            | -10             | No          | 5         | 0            | n/a              | n/a          | 0.02         | NP            |
| <b>Zinc (mg/L)</b> | <b>GWA-3A (bg)</b> | <b>-0.0006084</b> | <b>-2.545</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>44</b> | <b>47.73</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| <b>Zinc (mg/L)</b> | <b>GWA-4 (bg)</b>  | <b>-0.00083</b>   | <b>-3.576</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>46</b> | <b>19.57</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| <b>Zinc (mg/L)</b> | <b>GWA-5 (bg)</b>  | <b>-0.0007204</b> | <b>-4.419</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>45</b> | <b>17.78</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWA-7A (bg)        | -0.001754         | -4            | -10             | No          | 5         | 0            | n/a              | n/a          | 0.02         | NP            |
| <b>Zinc (mg/L)</b> | <b>GWC-2</b>       | <b>-0.0005056</b> | <b>-3.176</b> | <b>-2.33</b>    | <b>Yes</b>  | <b>45</b> | <b>24.44</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.02</b>  | <b>NP</b>     |
| Zinc (mg/L)        | GWC-4A             | 0                 | -0.5418       | -2.33           | No          | 44        | 47.73        | n/a              | n/a          | 0.02         | NP            |
| Zinc (mg/L)        | GWC-5              | -0.0004402        | -2.172        | -2.33           | No          | 46        | 8.696        | n/a              | n/a          | 0.02         | NP            |







Constituent: Zinc    Analysis Run 12/2/2020 12:37 PM    View: EPD Exceedances  
Plant McIntosh    Client: Southern Company    Data: McIntosh LF 3 CCR



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