



Plant McIntosh Ash Pond 1

Permit No. 051-011D(CCR)
Effingham County

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT



ATLANTIC COAST
CONSULTING, INC.

PROFESSIONAL CERTIFICATION

This *2024 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Ash Pond 1* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residuals Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. (ACC). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

ATLANTIC COAST CONSULTING, INC.



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Date: January 31, 2025



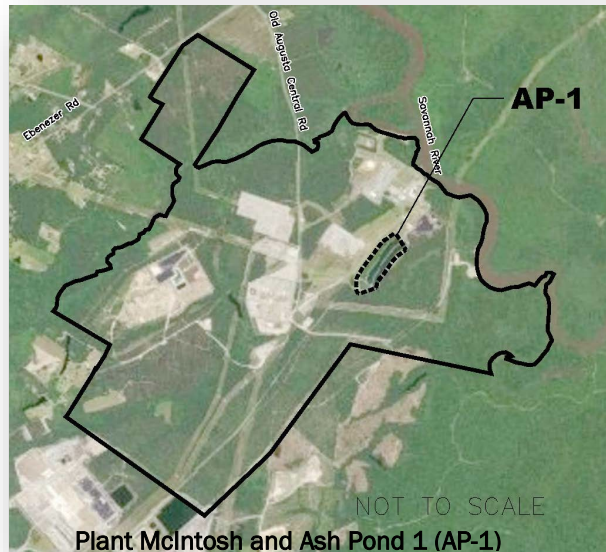
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SUMMARY

This summary of the *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from January through December 2024 for Georgia Power Company (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McIntosh is located at 981 Old Augusta Central Road, approximately 4 miles northeast of the City of Rincon, in Effingham County, Georgia. AP-1 is located on the eastern portion of the Plant McIntosh property. The Site has been closed by removal of CCR material.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established between May 2016 and April 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018. An Alternate



Source Demonstration (ASD) completed in January 2019 and a November 2019 supplement presented lines of evidence demonstrating that statistically significant levels (SSL) of cobalt and lithium in groundwater were not due to a release from the unit. The ASD and supplemental information were included in the 2018 and 2019 Annual Groundwater Monitoring and Corrective Action Reports, respectively. In response to the cobalt and lithium 2018 ASD and Supplemental 2019 ASD, Georgia Environmental Protection Division (EPD) provided a letter of non-concurrence on September 20, 2024 (Georgia EPD, 2024). Georgia EPD noted that if further information becomes available, Georgia Power may provide updated information to support an ASD but requested Georgia Power initiate an Assessment of Corrective Measures (ACM). A Notice of Initiation of Assessment of Corrective Measures was placed in the Operating Record on December 19, 2024. During this January through December 2024 semiannual reporting period, the Site remained in assessment monitoring. The Georgia EPD approved the CCR permit 051-11D(CCR) for the Site on February 6, 2020.

During the reporting period, ACC conducted semiannual sampling events in February 2024 and August 2024. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the CCR Rule, groundwater results for February 2024

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

and August 2024 data were evaluated in accordance with the certified statistical methods. Those evaluations showed statistical significance for Appendix III² and Appendix IV³ parameters in wells as summarized in the table below.

Appendix III Parameter	February 2024	August 2024
Boron	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8
Calcium	MGWC-8	MGWC-1, MGWC-8
Chloride	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8
Fluoride	MGWC-12	None
Sulfate	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8
TDS	MGWC-1, MGWC-2, MGWC-3, MGWC-8	MGWC-1, MGWC-2, MGWC-8
Appendix IV Parameter	February 2024	August 2024
Cobalt	MGWC-7, MGWC-8	None
Lithium	MGWC-7	MGWC-7

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through December 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power’s website and provided to the Georgia EPD semiannually.

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

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

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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, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2024 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). To specify groundwater monitoring requirements, Georgia EPD Rule 391-3-4-.10(6)(a) incorporates by reference the US EPA CCR Rule 40 CFR § 257 Subpart D. For ease of reference, the US EPA CCR Rules are cited within this report.

A permit application to comply with Georgia EPD Rules was submitted in November 2018 and was approved in February 2020. A request for minor modification was submitted to Georgia EPD August 6, 2024 for the five year permit review in accordance with the Georgia EPD Rules for Solid Waste Management Chapter, 391-3-4-.02(1). This minor modification was approved by EPD in a letter dated October 17, 2024. Monitoring for the CCR Unit is performed in accordance with the permit monitoring requirements [Georgia EPD Permit No. 051-011D(CCR), 40 CFR § 257.90 through 257.91 and § 257.93 through 257.95 of the Federal CCR Rule, and the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a)].

This report documents activities completed for the groundwater monitoring program from January through December 2024 in accordance with 40 CFR § 257.90(e). This report includes results of the semiannual assessment monitoring events conducted in February 2024 and August 2024.

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. AP-1 is located on the eastern portion of the plant property.

All CCR material has been removed from Plant McIntosh AP-1. In a letter dated October 5, 2021, Georgia EPD acknowledged that all CCR removal activities had been completed at the Site. The former waste placement area of the Site has been graded and restored.

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 30 and -20 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh is to the east.

1.3 Groundwater Monitoring System and CCR Unit Description

Pursuant to 40 CFR § 257.91, a groundwater monitoring system was installed within the

uppermost aquifer at AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. The former CCR Unit included four cells (Cell A through Cell D). Each of these cells have been closed by removal of CCR. CCR removal has been certified as complete, and the area has been graded and restored. A figure depicting the former cell layout is provided as Figure 2, CCR Removal Map. Figure 3, Well Location Map, shows the monitoring well locations. Wells were installed to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1, Monitoring Well Network Summary).

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from January through December 2024 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected February 2024 and August 2024 from each well in the certified monitoring system shown on Figure 3. Additionally, newly identified Assessment Monitoring Wells MGWC-19 and MGWC-20 were sampled in December 2024.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system during the annual reporting period depicted in Figure 3. The network remained the same as in the previous reporting year (2023). 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 necessary for sampling under safe and clean conditions. Well inspection checklists completed during the semiannual sampling events are included in Appendix A, Laboratory Analytical and Field Sampling Reports. Any issues identified in well inspection checklists are addressed prior to the next monitoring event.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (Official Code of Georgia Annotated § 12-5-134(5)(d)(vii)). In February and August 2024, monitoring wells were inspected, and no necessary corrective actions were identified as documented in Appendix A. Well inspections and corrective actions were performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, Georgia Power initiated an assessment monitoring program on January 15, 2018. A notice of assessment monitoring was placed in the Operating Record on May 15, 2018. Monitoring wells were sampled for Appendix III and Appendix IV parameters in February 2024, August 2024, and December 2024 as part of the semiannual assessment monitoring events, respectively. A summary of groundwater sampling events completed during the annual reporting period is provided in Table 2, Groundwater Event Summary. Field and laboratory reporting of sampling activities are provided in Appendix A.

2.3 Additional Sampling

Additional geochemical analytical data was collected during February 2024 event and were analyzed for major cations, major anions, total alkalinity, bicarbonate alkalinity and carbonate

alkalinity for evaluation purposes only. Groundwater samples were collected from MGWC-19 and MGWC-20 December 9, 2024 for delineation purposes following EPD non-concurrence of the ASD (discussed further in report Section 5.0).

3.0 SAMPLE METHODOLOGY & ANALYSIS

The following subsections 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 levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers at the Site. Groundwater levels recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop the potentiometric surface elevation contour map provided in Figures 4A and 4B, Potentiometric Contour Map – February 2024 and August 2024, respectively. The general direction of groundwater flow across AP-1 is predominately toward the east. The groundwater flow patterns observed during the February 2024 and August 2024 monitoring events are consistent with historical observations.

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

Specifically:

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where:} \quad \begin{array}{l} v = \text{groundwater velocity} \\ K = \text{hydraulic conductivity} \\ dh/dl = \text{hydraulic gradient} \\ P_e = \text{effective porosity} \end{array}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on the default value for silty sands, US EPA, 1989). The groundwater flow velocity has been calculated and is tabulated on Tables 4A and 4B, Horizontal Groundwater Flow Velocity Calculations – February 2024 and August 2024, respectively. The calculated flow velocity was 0.041 feet per day during the February 2024 event and 0.042 feet per day during the August 2024 event.

This calculated groundwater velocity across the Site is generally consistent with historical calculations and within expected velocities in the Site-specific geology, therefore confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

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 either a peristaltic pump or non-dedicated QED bladder pump. In all cases pump intakes were located at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations using as a guide the procedures

described in the latest version of the Region 4 US EPA Lab Services and Applied Science Division (LSASD) Operating Procedure for Field Equipment Cleaning and Decontamination (US EPA, 2020).

An Aqua Troll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, specific conductance, oxidation-reduction potential [ORP], dissolved oxygen [DO], and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidity meter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- $\pm 5\%$ for specific conductance
- $\pm 10\%$ or 0.2 milligrams per Liter (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 5 nephelometric turbidity units (NTUs)

Once parameter 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 Environment Testing America (Eurofins) of Savannah, GA following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

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 A.

Analytical data collected during the monitoring period are summarized in Tables 5A and 5B, Groundwater Analytical Data Summary – February 2024 and August 2024 events, respectively. Additional geochemical analytical data collected during February 2024 and analytical data collected during the December 2024 monitoring events are also summarized in Tables 5A and 5B. Laboratory reporting including analytical methods used for groundwater sample analysis are provided in the analytical laboratory reports included in Appendix A.

3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of at least one set of QA/QC equipment rinsate blanks per every 10 samples and at least one set of QA/QC field blanks and field duplicate samples per every 20 samples. QA/QC sample data were evaluated during data validation and are included in Appendix A.

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 spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. The validated data meet project objectives and the associated data validation reports are provided in Appendix A, along with the laboratory reports.

Values followed by a "J" flag on Tables 5A and 5B indicate that the value is an estimated parameter concentration detected between the method detection limit (MDL) and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

4.0 STATISTICAL ANALYSIS

Groundwater monitoring data collected during the February 2024 and August 2024 semiannual assessment monitoring events were statistically analyzed by Groundwater Stats Consulting, LLC pursuant to 40 CFR § 257.95 following the Professional Engineer-certified statistical method. Appendix III detection monitoring parameters were statistically analyzed to determine if parameters have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard (GWPS). Statistical analysis methods and results are provided in Appendix B, Statistical Analysis Reports. The following subsections and Table 6, Statistical Method Summary, provide an overview of the statistical method used to evaluate Appendix III and IV parameters and statistical analyses results.

4.1 Statistical Analysis Methods

The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the US EPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (US EPA, 2009).

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual parameter, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

In 1-of-2 verification 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 IV Statistical Methods

Appendix IV parameters were sampled during the February 2024 and August 2024 semiannual assessment events. To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV parameters in each downgradient well. Those confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/parameter pair considered to exceed its GWPS. If there is an exceedance of the established standard, a statistically significant level (SSL) exceedance is identified.

US EPA revised the Federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. US EPA's updated GWPS were incorporated into Georgia EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022. The CCR Rule GWPS is as follows:

- (1) The federally established maximum contaminant level (MCL) under 40 CFR § 141.62 and 141.66.
- (2) Where an MCL has not been established, the levels specified by the CCR Rule:
 - (i). Cobalt 0.006 mg/L;
 - (ii). Lead 0.015 mg/L;
 - (iii). Lithium 0.040 mg/L; and
 - (iv). Molybdenum 0.100 mg/L.
- (3) Background levels for parameters where the background level is higher than the MCL.

On February 22, 2022, Georgia EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established, except when site specific background concentrations of these parameters are higher. Statistical evaluations for the February 2024 and August 2024 events reflect these changes.

Following the above rule requirements, GWPS have been established for statistical comparison of Appendix IV parameters. Table 7, Summary of Background Levels and GWPS, summarizes the background limit established for each parameter and the GWPS used for the data for February 2024 and August 2024.

Note that when there are no detections present in downgradient wells for a given parameter, statistical analyses are not required. A substitution of the most recent reporting limit is used for non-detect data. Additional details are presented in the Statistical Analyses provided in Appendix B.

4.2 Statistical Analysis Results

4.2.1 Semiannual Appendix III Statistical Results

Based on review of the Appendix III statistical analysis presented in Appendix B, Appendix III parameters have not returned to background levels. Exceedances were noted and are presented on the prediction limit summary tables included in Appendix B. Assessment monitoring should continue pursuant to 40 CFR § 257.95(f).

4.2.2 Semiannual Appendix IV Statistical Results

Based on review of the Appendix IV statistical analyses presented in Appendix B, the following parameters were found to statistically exceed the GWPS during the February 2024 sampling event:

- Cobalt: MGWC-7 and MGWC-8
- Lithium: MGWC-7

The following parameters were found to statistically exceed the GWPS during the August 2024 sampling event:

- Lithium: MGWC-7

Concentrations of cobalt in all wells were below the GWPS during this annual reporting period.

SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Site during the sampling events conducted in February and August 2024. An Alternate Source Demonstration (ASD) for cobalt and lithium was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report*, and later supported by the *Supplemental Information for the Ash Pond 1 Alternate Source Demonstration*, dated November 21, 2019. The demonstration showed the source of cobalt and lithium in groundwater is not due to a release from the unit.

In response to the cobalt and lithium 2018 ASD and Supplemental 2019 ASD, Georgia EPD provided a letter of non-concurrence on September 20, 2024 (Georgia EPD, 2024). Georgia EPD noted that if further information becomes available, Georgia Power may provide updated information to support an ASD but requested Georgia Power initiate an Assessment of Corrective Measures (ACM) (Georgia EPD, 2024). Georgia Power has initiated an ACM and is also evaluating possible updates to the ASD.

5.0 NATURE AND EXTENT

In response to the ASD non-concurrence and the initiation of ACM efforts, Georgia Power performed additional sampling at MGWC-19 and MGWC-20 in December 2024. The previously identified SSL of lithium at MGWC-7 is vertically delineated by MGWC-19 and horizontally delineated by MGWC-20 to below GWPS and delineation is complete.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

In accordance with 40 CFR § 257.94(e), Georgia Power implemented assessment monitoring in May 2018. Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through December 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site.

6.2 Assessment of Corrective Measures

On December 19, 2024, Georgia Power placed a Notice of ACM in the Operating Record and initiated ACM efforts for the documented SSL of lithium at MGWC-7 previously identified in the ASD. Georgia Power will complete the evaluation of the ACM alternatives following the timelines and requirements of Rule 391-3-4-.10(6)(d)(4) and 40 CFR § 257.94(e)(3) and § 257.96, and recordkeeping requirements of § 257.107.

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2024 Annual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant McIntosh AP-1 was prepared to fulfill the requirements of US EPA's CCR Rule and Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10.

Statistical evaluations of the groundwater monitoring data for the Site identified SSLs of Appendix III groundwater monitoring parameters and SSLs of cobalt and lithium in February 2024 and only an SSL of lithium in August 2024. In accordance with 40 CFR § 257.95(g)(3), Georgia Power prepared an ASD for cobalt and lithium in 2018 that concludes the state and federal SSLs for cobalt and lithium are not due to a release from the unit. In response to the cobalt and lithium 2018 ASD and Supplemental 2019 ASD, Georgia EPD provided a letter of non-concurrence on September 20, 2024. Georgia Power has initiated an ACM and is also evaluating possible updates to the ASD.

Based on the findings presented, AP-1 will remain in assessment monitoring. The next semiannual assessment monitoring event is currently scheduled for February 2025.

8.0 REFERENCES

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- US EPA, 2020. Field Equipment Cleaning and Decontamination – Operating Procedure: LSASDPROC-205-R4, Athens, Georgia, 16 p.
- US EPA, 2023. Groundwater Sampling – Operating Procedure: LSASDPROC-301-R6, Athens, Georgia, 36 p.

TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Well ID	Compliance Purpose	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below top of casing)	Groundwater Zone Screened	Installation Date
MGWC-1	Detection	Downgradient	856813.08	964287.47	62.20	65.23	19.45	9.45	56.08	SW-SC, SP-SM, SP, ML	11/10/2015
MGWC-2	Detection	Downgradient	856400.69	963958.38	45.32	48.54	21.48	11.48	37.36	SP, SP-SM	11/11/2015
MGWC-3	Detection	Downgradient	856033.79	963658.28	50.09	52.65	24.21	14.21	38.74	SP-SM	11/11/2015
MGWA-5	Detection	Upgradient	855860.82	962763.17	61.42	64.36	11.57	1.57	63.09	ML, SP-SM, SP, ML	11/12/2015
MGWA-6	Detection	Upgradient	856527.73	963130.08	58.24	61.08	29.45	19.45	41.93	SP-SM	11/12/2015
MGWA-6A	Detection	Upgradient	856520.82	963113.65	56.89	59.76	30.36	20.36	39.67	SP, SW-SC	01/16/2019
MGWC-7	Detection	Downgradient	857417.68	964007.53	51.28	54.40	22.41	12.41	42.29	SP-SM	11/13/2015
MGWC-8	Detection	Downgradient	857177.10	964141.67	59.69	62.61	20.35	10.35	52.56	CH, SW-SC, SW-SM, SP-SM, ML	11/10/2015
MGWA-10	Detection	Upgradient	855934.25	961406.49	62.05	65.07	22.28	12.28	53.09	SP-SC, SW-SC, SP-SM	11/17/2015
MGWA-11	Detection	Upgradient	855985.31	962070.22	62.04	64.91	19.30	9.30	55.81	SM, ML, SW-SM	05/27/2016
MGWC-12	Detection	Downgradient	855545.67	963110.24	61.24	64.10	21.40	11.40	52.90	CL, ML	05/26/2016
MGWC-4	Piezometer	Downgradient	855555.05	963139.37	61.05	64.33	7.28	-2.72	67.35	ML, SP	11/18/2015
MGWA-9	Piezometer	Upgradient	857129.70	963164.58	56.25	59.29	26.54	16.54	43.05	SP-SM	11/17/2015
PZ-13	Piezometer	Downgradient	856123.86	964192.52	38.02	40.91	24.55	14.55	26.76	SM	06/03/2016
PZ-14	Piezometer	Downgradient	855727.20	963895.98	43.99	47.11	16.01	6.01	41.50	SP	06/04/2016
PZ-15	Piezometer	Downgradient	856156.03	964192.45	39.07	42.37	23.80	13.80	28.87	SM, SC	06/26/2018
PZ-16	Piezometer	Downgradient	857077.14	964957.28	51.29	54.71	22.62	12.62	42.39	SC, SW-SM	06/26/2018
PZ-17	Piezometer	Downgradient	857655.05	964525.72	54.07	57.51	22.69	12.69	45.12	SM	06/27/2018
PZ-18	Piezometer	Upgradient	857542.34	963505.91	50.26	53.48	22.08	12.08	41.70	SC, SM	06/27/2018
MGWC-19	Assessment	Downgradient	857406.16	963972.44	50.74	53.98	-8.42	-18.42	72.70	SM-ML	10/04/2018
MGWC-20	Assessment	Downgradient	857596.86	964281.59	48.77	51.56	7.09	-2.91	54.77	SP-SM, SP	10/03/2018
MGWC-21	Piezometer	Downgradient	857159.04	964155.30	59.89	62.65	-9.73	-19.73	82.68	SM-ML	11/28/2018
MGWC-22	Piezometer	Downgradient	856381.60	963948.23	45.09	47.53	-9.73	-19.73	67.56	SM-ML	11/29/2018
MGWC-23	Piezometer	Downgradient	856940.45	964617.96	54.84	57.47	24.87	14.87	42.90	SC, SM	11/30/2018
MGWA-24	Piezometer	Upgradient	856600.28	962885.22	57.55	60.53	24.73	14.73	47.00	SM	01/17/2019

Notes:

Elevations shown are in datum NAVD88, which indicates feet in elevation referenced to the North American Vertical Datum 1988.

Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.

Northings and eastings are feet relative to North American Datum 1983, State Plane Georgia East Zone.

Groundwater Zone Screened designations are ASTM D2487-17e1 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), where applicable.

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Well ID	Hydraulic Location	Compliance Purpose	February 6 - 7, 2024	August 13 - 14, 2024	December 9, 2024
			Semiannual Assessment Event	Semiannual Assessment Event	Semiannual Assessment Event
Georgia Power Company - Plant McIntosh - Ash Pond 1					
MGWC-1	Downgradient	Detection	X	X	
MGWC-2	Downgradient	Detection	X	X	
MGWC-3	Downgradient	Detection	X	X	
MGWA-5	Upgradient	Detection	X	X	
MGWA-6	Upgradient	Detection	X	X	
MGWA-6A	Upgradient	Detection	X	X	
MGWC-7	Downgradient	Detection	X	X	
MGWC-8	Downgradient	Detection	X	X	
MGWA-10	Upgradient	Detection	X	X	
MGWA-11	Upgradient	Detection	X	X	
MGWC-12	Downgradient	Detection	X	X	
MGWC-19	Downgradient	Assessment			X
MGWC-20	Downgradient	Assessment			X

Notes:

X - Indicates well sampled during event

Semiannual Assessment Event includes Appendix III and Appendix IV parameters.

Table 3
 Summary of Groundwater Elevations
 Georgia Power Company
 Plant McIntosh Ash Pond 1
 Effingham County, GA



Well ID	Top of Casing Elevation (feet)	February 2024		August 2024	
		Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MGWC-1	65.23	40.50	24.76	39.86	25.40
MGWC-2	48.54	21.98	26.56	21.29	27.25
MGWC-3	52.65	21.42	31.23	20.41	32.24
MGWC-4	64.33	28.88	35.45	27.66	36.67
MGWA-5	64.36	25.48	38.88	24.13	40.23
MGWA-6	61.08	23.39	37.69	23.42	37.66
MGWA-6A	59.76	24.77	34.99	22.03	37.73
MGWC-7	54.40	24.72	29.68	23.99	30.41
MGWC-8	62.61	35.27	27.34	34.92	27.69
MGWA-9	59.29	23.80	35.49	22.54	36.75
MGWA-10	65.07	18.69	46.38	16.90	48.17
MGWA-11	64.91	22.93	41.98	21.40	43.51
MGWC-12	64.10	28.52	35.58	27.31	36.79
PZ-13	40.91	17.71	23.20	17.25	23.66
PZ-14	47.11	19.18	27.93	18.51	28.60
PZ-15	42.37	19.19	23.18	18.65	23.72
PZ-16	54.71	34.30	20.41	33.56	21.15
PZ-17	57.51	34.00	23.51	33.72	23.79
PZ-18	53.48	21.01	32.47	19.90	33.58
MGWC-19	53.98	25.10	28.88	24.35	29.63
MGWC-20	51.56	25.24	26.32	24.44	27.12
MGWC-21	62.65	35.31	27.34	34.74	27.91
MGWC-22	47.53	20.09	27.44	19.31	28.22
MGWC-23	57.47	35.42	22.05	34.71	22.76
MGWA-24	60.53	22.85	37.68	21.22	39.31

Notes:

Elevations referenced to the North American Vertical Datum 1988.

Groundwater elevations measured February 5, 2024 on August 12, 2024.

Table 4A
Horizontal Groundwater Flow Velocity Calculations - February 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Equation

$$v = \frac{K (dh/dl)}{P_e}$$

where: v = groundwater velocity
 K = hydraulic conductivity
 dh/dl = hydraulic gradient
 P_e = effective porosity

Values Used in Calculation

Value	Source
K = 3.39E-04 cm/sec 0.962 ft/day	See note 1.
dh/dl ₁ = 23.2/2796 ft/ft 0.0083 unitless	Hydraulic gradient from MGWA-10 to PZ-15
dh/dl ₂ = 17.28/1898 ft/ft 0.0091 unitless	MGWA-6 to PZ-16
dh/dl ₃ = 11.98/1458 ft/ft 0.0082 unitless	MGWA-9 to PZ-17
dh/dl _{avg} = 0.0085 unitless	Average of dh/dl _{1,2,3}
P _e = 0.20 unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(0.962)(0.0085)}{0.20}$$

$$v = 0.041 \text{ ft/day, or } 15.0 \text{ ft/year}$$

Notes

- (1) Aquifer tests from Hydrogeologic Assessment Report (Revision 01), Plant McIntosh Ash Pond 1 (AP-1) November 2018, Revised December 2019.
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 4B
Horizontal Groundwater Flow Velocity Calculations - August 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Equation

$$v = \frac{K (dh/dl)}{P_e}$$

where: v = groundwater velocity
 K = hydraulic conductivity
 dh/dl = hydraulic gradient
 P_e = effective porosity

Values Used in Calculation

Value	Source
K = 3.39E-04 cm/sec 0.962 ft/day	See note 1.
dh/dl ₁ = 24.45/2796 ft/ft 0.0087 unitless	Hydraulic gradient from MGWA-10 to PZ-15
dh/dl ₂ = 16.51/1898 ft/ft 0.0087 unitless	MGWA-6 to PZ-16
dh/dl ₃ = 12.96/1458 ft/ft 0.0089 unitless	MGWA-9 to PZ-17
dh/dl _{avg} = 0.0088 unitless	Average of dh/dl _{1,2,3}
P _e = 0.20 unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(0.962)(0.0088)}{0.20}$$

$$v = 0.042 \text{ ft/day, or } 15.4 \text{ ft/year}$$

Notes

- (1) Aquifer tests from Hydrogeologic Assessment Report (Revision 01), Plant McIntosh Ash Pond 1 (AP-1) November 2018, Revised December 2019.
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 5A
Groundwater Analytical Data Summary - February 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Sample Location		MGWC-1	MGWC-2	MGWC-3	MGWA-5	MGWA-6	MGWA-6A	MGWC-7	MGWC-8	MGWA-10
Sample Date		02/06/2024	02/07/2024	02/07/2024	02/06/2024	02/06/2024	02/06/2024	02/06/2024	02/07/2024	02/06/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	1.6	1.9	0.59	0.044 J	0.026 J	0.084	2.4	5.1	< 0.022
Calcium	mg/L	110	110	100	26	100	100	56	120	3.9
Chloride	mg/L	12	12	11	4.9	3.1	3.2	10	13	7.2
Fluoride	mg/L	0.12	0.081 J	0.089 J	0.079 J	0.069 J	0.074 J	0.17	0.063 J	< 0.040
pH, Field	SU	7.47	7.71	7.49	7.67	7.07	7.23	7.00	7.81	5.52
Sulfate	mg/L	140	150	94	2.4	2.8	2.4	200	310	< 0.40
Total Dissolved Solids	mg/L	420	450	370	150	280	260	350	590	57
Appendix IV										
Antimony	mg/L	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034
Arsenic	mg/L	0.0023	< 0.00086	0.0021	0.00092 J	0.011	0.012	0.0012	0.0017	0.00088 J
Barium	mg/L	0.12	0.047	0.18	0.039	0.029	0.031	0.024	0.061	0.023
Beryllium	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Cadmium	mg/L	< 0.000078	0.00034 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.0034	< 0.000078
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0066
Cobalt	mg/L	0.00024 J	0.00099 J	0.00065 J	< 0.00022	< 0.00022	0.00069 J	0.0037	0.00050 J	< 0.00022
Combined Radium 226 + 228	pCi/L	1.99	1.10	1.80	0.424 U	0.780	0.667 U	1.52	0.929	0.899
Fluoride	mg/L	0.12	0.081 J	0.089 J	0.079 J	0.069 J	0.074 J	0.17	0.063 J	< 0.040
Lead	mg/L	< 0.00021	0.00027 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Lithium	mg/L	0.0084	0.0051	0.0081	0.0058	0.0060	< 0.0020	0.12	0.0076	0.0083
Mercury	mg/L	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	0.00052	< 0.000080
Molybdenum	mg/L	0.00099 J	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086
Selenium	mg/L	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099
Thallium	mg/L	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	190	220	210	120	280	260	36	130	26
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	190	220	210	120	280	260	36	130	26
Magnesium	mg/L	6.1	18	5.5	11	2.5	2.7	5.5	23	1.2
Potassium	mg/L	2.1	2.2	1.5	1.0	0.68	0.64	4.0	2.1	1.2
Sodium	mg/L	21	33	15	7.3	4.6	4.4	44	26	6.4

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.

The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5A
Groundwater Analytical Data Summary - February 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Sample Location		MGWA-11	MGWC-12
Sample Date		02/06/2024	02/07/2024
ANALYTE	UNITS		
Appendix III			
Boron	mg/L	0.047 J	0.023 J
Calcium	mg/L	40	29
Chloride	mg/L	3.3	4.9
Fluoride	mg/L	0.071 J	0.29
pH, Field	SU	7.86	6.83
Sulfate	mg/L	0.82 J	8.2
Total Dissolved Solids	mg/L	210	200
Appendix IV			
Antimony	mg/L	< 0.00034	< 0.00034
Arsenic	mg/L	0.0031	0.0012
Barium	mg/L	0.13	0.055
Beryllium	mg/L	< 0.00020	< 0.00020
Cadmium	mg/L	< 0.000078	< 0.000078
Chromium	mg/L	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.00022	< 0.00022
Combined Radium 226 + 228	pCi/L	0.518	0.706
Fluoride	mg/L	0.071 J	0.29
Lead	mg/L	< 0.00021	< 0.00021
Lithium	mg/L	0.037	0.030
Mercury	mg/L	< 0.000080	< 0.000080
Molybdenum	mg/L	< 0.00086	< 0.00086
Selenium	mg/L	< 0.00099	< 0.00099
Thallium	mg/L	< 0.00026	< 0.00026
Additional Parameters			
Bicarbonate Alkalinity as CaCO3	mg/L	170	130
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	170	130
Magnesium	mg/L	12	12
Potassium	mg/L	2.2	1.9
Sodium	mg/L	11	11

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.

The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5B
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Sample Location		MGWC-1	MGWC-2	MGWC-3	MGWA-5	MGWA-6	MGWA-6A	MGWC-7	MGWC-8	MGWA-10
Sample Date		08/13/2024	08/14/2024	08/14/2024	08/13/2024	08/13/2024	08/13/2024	08/14/2024	08/14/2024	08/13/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	1.7	1.7	0.42	0.026 J	0.031 J	0.033 J	2.1	5.1	< 0.022
Calcium	mg/L	120	110	110	28	110	110	60	130	4.2
Chloride	mg/L	13	12	11	5.2	3.4	3.5	11	13	7.6
Fluoride	mg/L	< 0.20	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
pH, Field	SU	7.14	7.73	7.14	7.67	7.27	7.23	7.50	7.81	5.43
Sulfate	mg/L	140	140	80	3.3	4.4	4.2	200	230	0.59 J
Total Dissolved Solids	mg/L	420	450	360	150	290	270	350	580	63
Appendix IV										
Antimony	mg/L	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034
Arsenic	mg/L	0.0018	< 0.00086	0.0022	< 0.00086	0.011	0.0076	< 0.00086	0.0019	< 0.00086
Barium	mg/L	0.11	0.045	0.15	0.038	0.029	0.033	0.019	0.064	0.023
Beryllium	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Cadmium	mg/L	< 0.000078	0.00068 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.00012 J	0.0085	< 0.000078
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.060	< 0.0012	< 0.0012	< 0.0012	0.0044
Cobalt	mg/L	< 0.00022	0.00080 J	0.00038 J	< 0.00022	0.00051 J	0.00035 J	0.0013 J	0.00056 J	< 0.00022
Combined Radium 226 + 228	pCi/L	2.14	-0.123 U	1.14	0.441 U	0.709	0.888	1.08	0.642 U	1.11
Fluoride	mg/L	< 0.20	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Lead	mg/L	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Lithium	mg/L	0.011	0.0065	0.012	0.010	< 0.0020	0.0022 J	0.15	0.0070	0.0079
Mercury	mg/L	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	0.00051	< 0.000080
Molybdenum	mg/L	0.0011 J	< 0.00086	< 0.00086	0.00091 J	0.0015 J	< 0.00086	< 0.00086	< 0.00086	< 0.00086
Selenium	mg/L	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099
Thallium	mg/L	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.

The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5B
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA



Sample Location		MGWA-11	MGWC-12	MGWC-19	MGWC-20
Sample Date		08/13/2024	08/14/2024	12/09/2024	12/09/2024
ANALYTE	UNITS				
Appendix III					
Boron	mg/L	0.026 J	0.029 J	1.3	1.4
Calcium	mg/L	35	28	120	47
Chloride	mg/L	4.9	5.5	16	16
Fluoride	mg/L	< 0.040	0.12	< 0.40	< 0.40
pH, Field	SU	7.72	7.37	7.51	6.18
Sulfate	mg/L	3.3	8.9	290	150
Total Dissolved Solids	mg/L	200	190	510	320
Appendix IV					
Antimony	mg/L	< 0.00034	< 0.00034	NA	NA
Arsenic	mg/L	0.0033	< 0.00086	NA	NA
Barium	mg/L	0.11	0.048	NA	NA
Beryllium	mg/L	< 0.00020	< 0.00020	NA	NA
Cadmium	mg/L	< 0.000078	< 0.000078	NA	NA
Chromium	mg/L	< 0.0012	< 0.0012	NA	NA
Cobalt	mg/L	< 0.00022	< 0.00022	NA	NA
Combined Radium 226 + 228	pCi/L	1.09	0.231 U	NA	NA
Fluoride	mg/L	< 0.040	0.12	< 0.40	< 0.40
Lead	mg/L	< 0.00021	< 0.00021	NA	NA
Lithium	mg/L	0.019	0.022	0.0051	0.0029 J
Mercury	mg/L	< 0.000080	< 0.000080	NA	NA
Molybdenum	mg/L	0.00091 J	< 0.00086	NA	NA
Selenium	mg/L	< 0.00099	< 0.00099	NA	NA
Thallium	mg/L	< 0.00026	< 0.00026	NA	NA

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.

The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 6
 Statistical Method Summary
 Georgia Power Company
 Plant McIntosh Ash Pond 1
 Effingham County, GA



Plant McIntosh Ash Pond 1 Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
	Downgradient Wells	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Table 7
 Summary of Background Levels and GWPS
 Georgia Power Company
 Plant McIntosh Ash Pond 1
 Effingham County, GA



Analyte	Units	EPA MCL	Federal CCR Rules Specified GWPS	Background Level February 2024	GWPS February 2024	Background Level August 2024	GWPS August 2024
Antimony	mg/L	0.006	N/A	0.002	0.006	0.002	0.006
Arsenic	mg/L	0.01	N/A	0.014	0.014	0.014	0.014
Barium	mg/L	2	N/A	0.13	2	0.13	2
Beryllium	mg/L	0.004	N/A	0.0025	0.004	0.0025	0.004
Cadmium	mg/L	0.005	N/A	0.0025	0.005	0.0025	0.005
Chromium	mg/L	0.1	N/A	0.0066	0.1	0.0066	0.1
Cobalt	mg/L	N/A	0.006	0.0025	0.006	0.0025	0.006
Combined Radium 226 + 228	pCi/L	5	N/A	1.22	5	1.24	5
Fluoride	mg/L	4	N/A	0.19	4	0.19	4
Lead	mg/L	N/A	0.015	0.001	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.037	0.04	0.037	0.04
Mercury	mg/L	0.002	N/A	0.0002	0.002	0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.015	0.1	0.015	0.1
Selenium	mg/L	0.05	N/A	0.005	0.05	0.005	0.05
Thallium	mg/L	0.002	N/A	0.001	0.002	0.001	0.002



Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. Background Level = Tolerance limits calculated from pooled upgradient well data through present.
4. MCL = Maximum Contaminant Level, per Georgia EPD Rule 391-3-5-.18(1)(a).
5. GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
6. CCR-Rule specified GWPS as stipulated in 40 CFR § 257.95(h)(1-3) and incorporated into Georgia EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022.
7. N/A = Not applicable per Georgia EPD Rule 391-3-5-.18(1)(a) or 40 CFR § 257.95(h)(1-3).

FIGURES



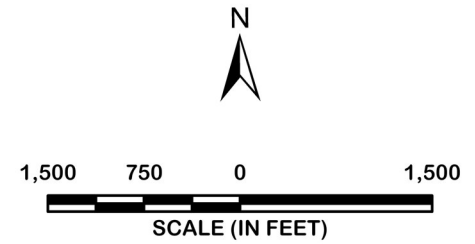
LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  APPROXIMATE AP-1 BOUNDARY








NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED FROM 2019 THROUGH 2021.



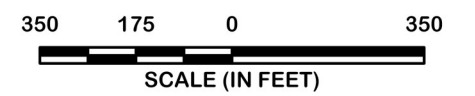
2024 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

LEGEND

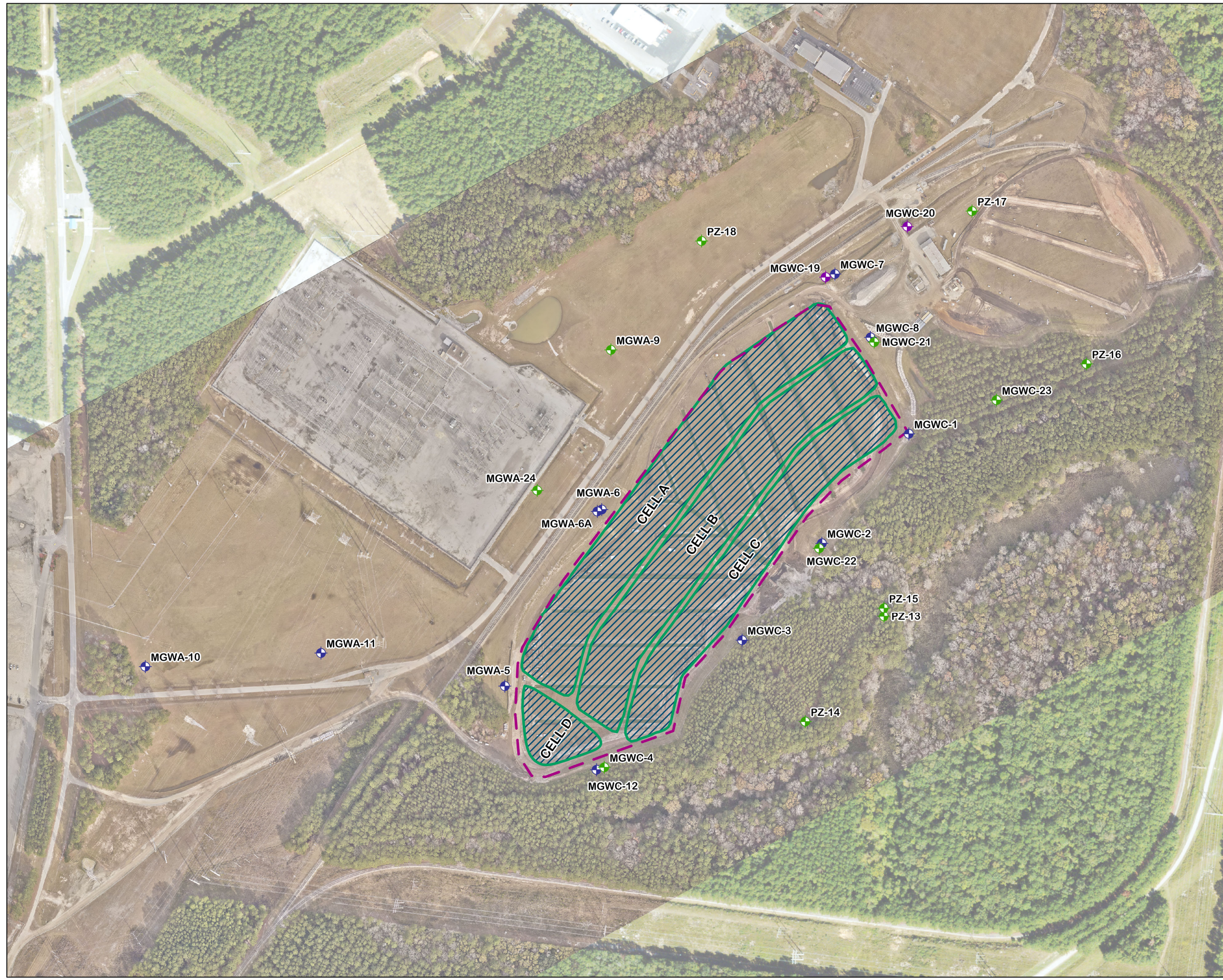
-  APPROXIMATE AP-1 BOUNDARY
-  AREA WHERE ASH REMOVAL WAS CERTIFIED COMPLETE BY GA EPD (OCTOBER 6, 2021)
-  DETECTION WELL
-  ASSESSMENT WELL
-  PIEZOMETER

NOTES





1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.
2. CELL BOUNDARY LAYERS PROVIDED BY GEI CONSULTANTS.



2024 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

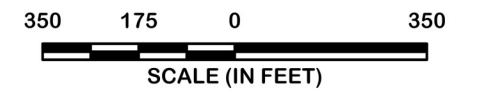
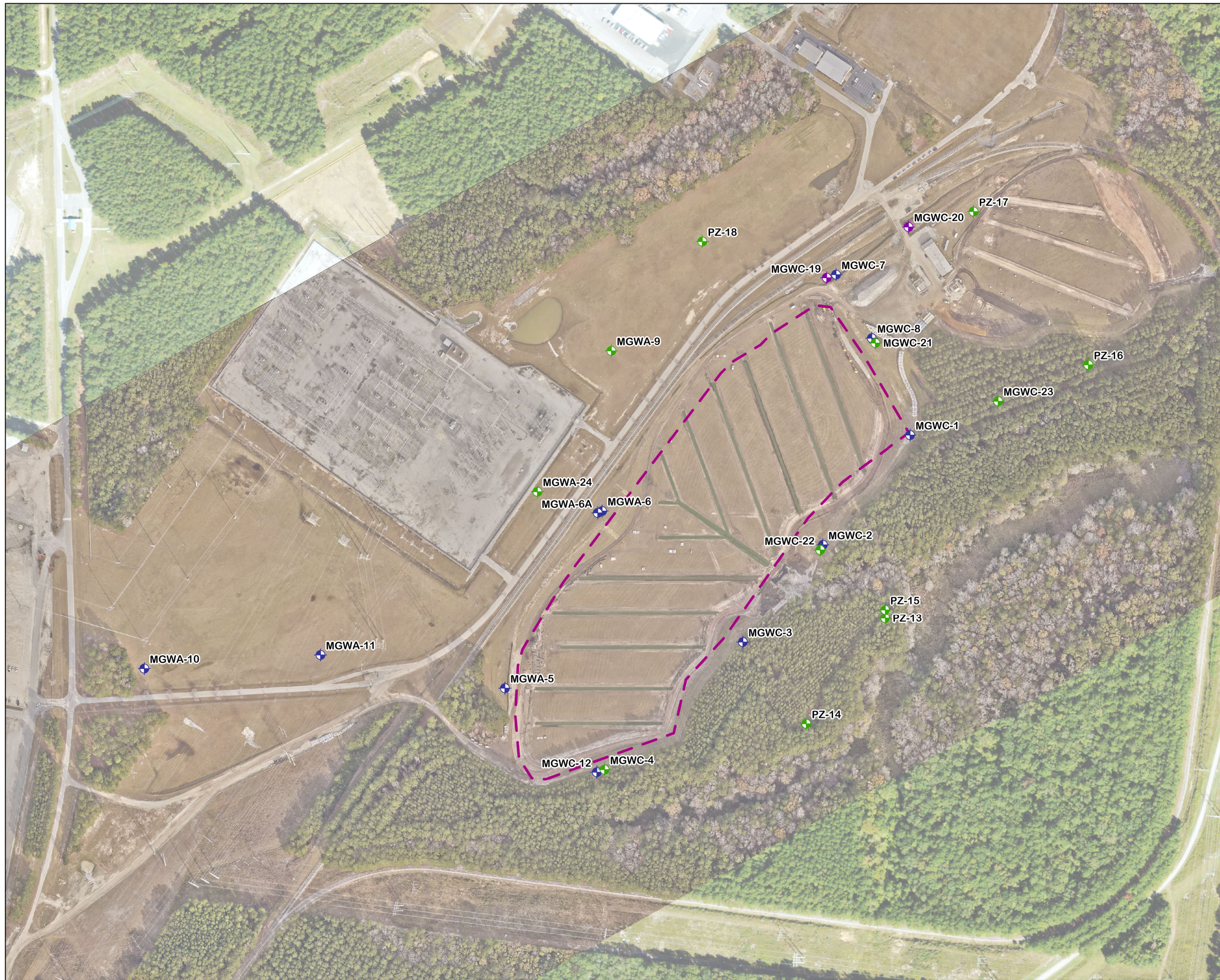


LEGEND

-  APPROXIMATE AP-1 BOUNDARY
-  DETECTION WELL
-  ASSESSMENT WELL
-  PIEZOMETER







NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.



2024 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

LEGEND

-  APPROXIMATE AP-1 BOUNDARY
-  GROUNDWATER ELEVATION CONTOUR
-  GROUNDWATER FLOW DIRECTION
-  DETECTION WELL
-  ASSESSMENT WELL
-  PIEZOMETER

NOTES

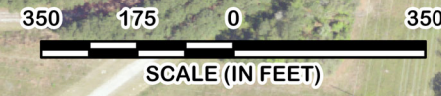
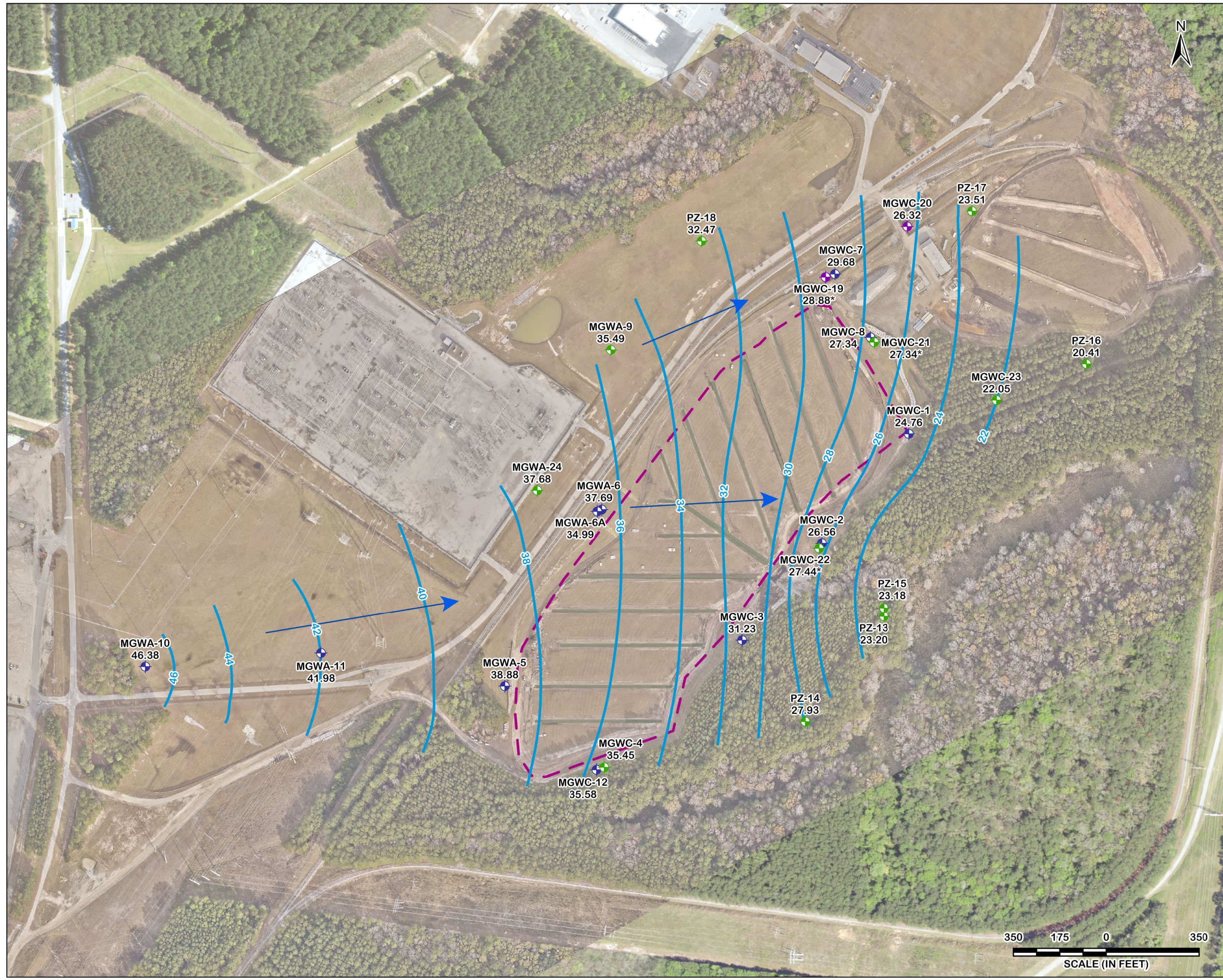
1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED APRIL 15, 2023.
2. WATER LEVELS MEASURED FEBRUARY 5, 2024.
3. * = ELEVATIONS FOR MGWC-19, MGWC-21, AND MGWC-22 ARE NOT USED TO CALCULATE POTENTIOMETRIC CONTOURS.









2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
 FEBRUARY 2024

FIGURE 4A



LEGEND

-  APPROXIMATE AP-1 BOUNDARY
-  GROUNDWATER ELEVATION CONTOUR
-  GROUNDWATER FLOW DIRECTION
-  DETECTION WELL
-  ASSESSMENT WELL
-  PIEZOMETER

NOTES

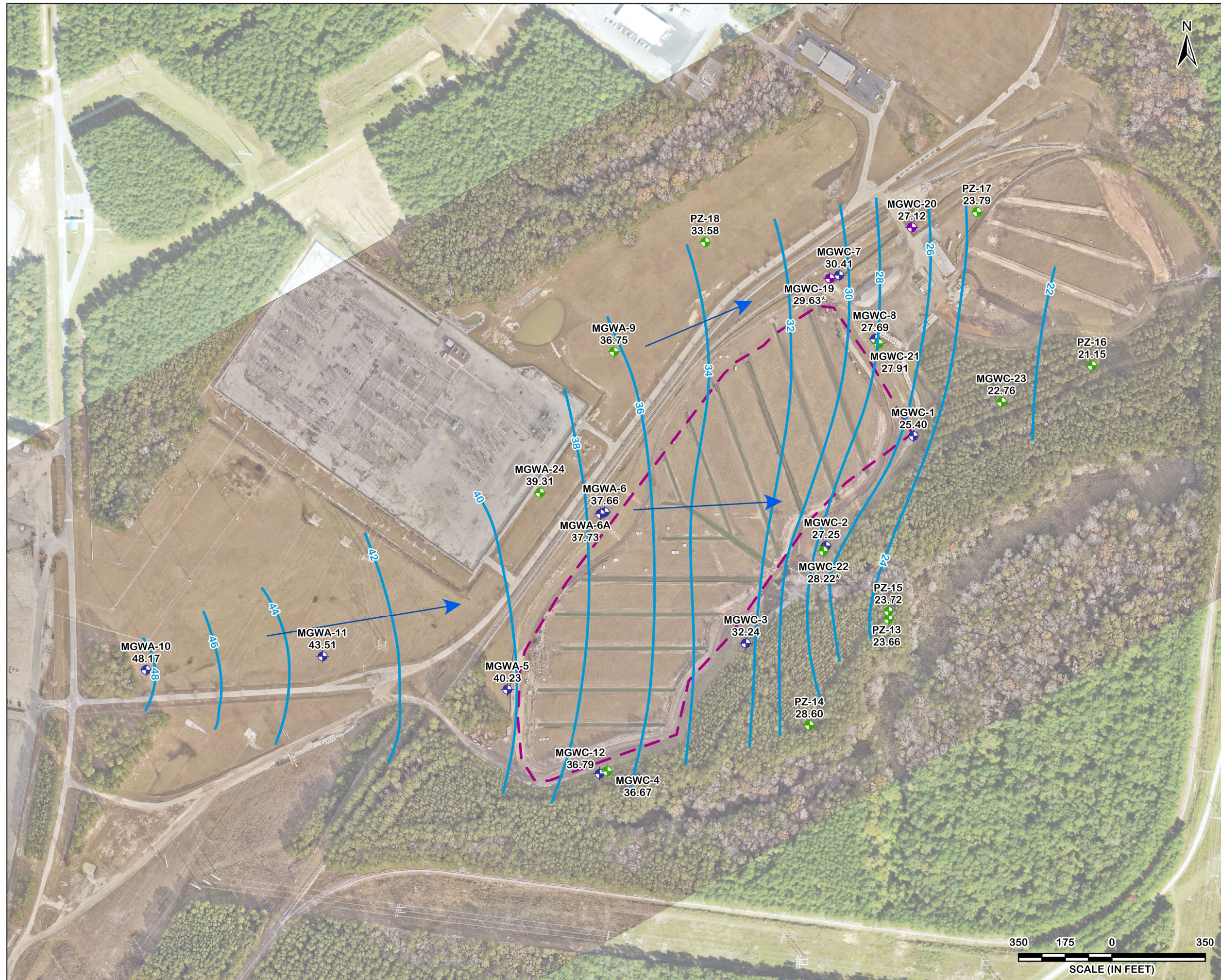
1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.
2. WATER LEVEL ELEVATION MEASURED AUGUST 12, 2024.
3. * = ELEVATIONS FOR MGWC-19 AND MGWC-22 ARE NOT USED TO CALCULATE POTENTIOMETRIC CONTOURS.



2024 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
 AUGUST 2024

FIGURE
 4B



APPENDICES

APPENDIX A

Laboratory Analytical and Field Sampling Reports

APPENDIX A

*Laboratory Analytical and Field Sampling Reports
February 2024 Monitoring Event*

ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/5/2024 11:14:18 AM Revision 1

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-246461-1

Eurofins Savannah

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Revision 1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Eurofins Savannah

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246461-1	MCI-MGWA-10	Water	02/06/24 10:44	02/09/24 12:35
680-246461-2	MCI-MGWA-6	Water	02/06/24 10:03	02/09/24 12:35
680-246461-3	MCI-MGWA-6A	Water	02/06/24 11:10	02/09/24 12:35
680-246461-4	MCI-MGWA-11	Water	02/06/24 12:42	02/09/24 12:35
680-246461-5	MCI-MGWA-5	Water	02/06/24 14:20	02/09/24 12:35
680-246461-6	MCI-MGWC-7	Water	02/06/24 16:10	02/09/24 12:35
680-246461-7	MCI-MGWC-1	Water	02/06/24 15:43	02/09/24 12:35
680-246461-8	MCI-AP1-FD-01	Water	02/06/24 00:00	02/09/24 12:35
680-246461-9	MCI-AP1-FB-01	Water	02/06/24 15:35	02/09/24 12:35
680-246461-10	MCI-MGWC-2	Water	02/07/24 11:41	02/09/24 12:35
680-246461-11	MCI-MGWC-3	Water	02/07/24 13:15	02/09/24 12:35
680-246461-12	MCI-MGWC-8	Water	02/07/24 10:15	02/09/24 12:35
680-246461-13	MCI-MGWC-12	Water	02/07/24 10:30	02/09/24 12:35
680-246461-14	MCI-AP1-FD-02	Water	02/07/24 00:00	02/09/24 12:35
680-246461-15	MCI-AP1-FB-02	Water	02/07/24 12:30	02/09/24 12:35
680-246461-16	MCI-AP1-EB-03	Water	02/07/24 09:15	02/09/24 12:35
680-246461-17	MCI-AP1-EB-04	Water	02/07/24 12:00	02/09/24 12:35

Case Narrative

Client: Southern Company
Project: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Job ID: 680-246461-1

Eurofins Savannah

Job Narrative 680-246461-1

Revision 1

The report being provided is a revision of the original report sent on 2/15/2024. The report (revision 1) is being revised due to: client requested 6020-Metals reanalysis for Arsenic for samples: MCI-MGWC-2 (680-246461-10), MCI-MGWC-3 (680-246461-11) and MCI-MGWC-8 (680-246461-12).

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 2/9/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.5°C, 1.1°C, 1.4°C and 1.4°C

HPLC/IC

Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 680-822239 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sulfate in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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

Metals

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

General Chemistry

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWA-6 (680-246461-2), MCI-MGWA-6A (680-246461-3), MCI-MGWA-11 (680-246461-4), MCI-MGWC-7 (680-246461-6), MCI-MGWC-1 (680-246461-7), MCI-AP1-FD-01 (680-246461-8), MCI-MGWC-2 (680-246461-10), MCI-MGWC-3 (680-246461-11), MCI-MGWC-8 (680-246461-12), MCI-MGWC-12 (680-246461-13) and MCI-AP1-FD-02 (680-246461-14).

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

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.20	mg/L			02/09/24 23:50	1
Fluoride	<0.040		0.10	0.040	mg/L			02/09/24 23:50	1
Sulfate	<0.40		1.0	0.40	mg/L			02/09/24 23:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 19:19	1
Arsenic	0.00088	J	0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 19:19	1
Barium	0.023		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 19:19	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 19:19	1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 19:19	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 19:19	1
Calcium	3.9		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 19:19	1
Chromium	0.0066		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 19:19	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 19:19	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 19:19	1
Lithium	0.0083	B	0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 19:19	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 19:19	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 19:19	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 19:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 09:39	02/13/24 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	57		10	10	mg/L			02/09/24 15:40	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.20	mg/L			02/10/24 00:22	1
Fluoride	0.069	J	0.10	0.040	mg/L			02/10/24 00:22	1
Sulfate	2.8		1.0	0.40	mg/L			02/10/24 00:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 20:07	1
Arsenic	0.011		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 20:07	1
Barium	0.029		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 20:07	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 20:07	1
Boron	0.026	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 20:07	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 20:07	1
Calcium	100		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 20:07	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 20:07	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 20:07	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 20:07	1
Lithium	0.0060		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 20:07	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 20:07	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 20:07	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 20:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 09:39	02/13/24 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	280		40	40	mg/L			02/09/24 15:40	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.20	mg/L			02/10/24 00:54	1
Fluoride	0.074	J	0.10	0.040	mg/L			02/10/24 00:54	1
Sulfate	2.4		1.0	0.40	mg/L			02/10/24 00:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:57	1
Arsenic	0.012		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:57	1
Barium	0.031		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:57	1
Boron	0.084		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:57	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:57	1
Calcium	100		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:57	1
Cobalt	0.00069	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:57	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 09:39	02/13/24 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	260		40	40	mg/L			02/09/24 15:40	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.20	mg/L			02/10/24 01:05	1
Fluoride	0.071	J	0.10	0.040	mg/L			02/10/24 01:05	1
Sulfate	0.82	J	1.0	0.40	mg/L			02/10/24 01:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 20:16	1
Arsenic	0.0031		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 20:16	1
Barium	0.13		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 20:16	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 20:16	1
Boron	0.047	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 20:16	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 20:16	1
Calcium	40		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 20:16	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 20:16	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 20:16	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 20:16	1
Lithium	0.037		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 20:16	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 20:16	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 20:16	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 20:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 09:39	02/13/24 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	210		40	40	mg/L			02/09/24 15:40	1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.20	mg/L			02/10/24 01:16	1
Fluoride	0.079	J	0.10	0.040	mg/L			02/10/24 01:16	1
Sulfate	2.4		1.0	0.40	mg/L			02/10/24 01:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/14/24 00:00	1
Arsenic	0.00092	J	0.0010	0.00086	mg/L		02/13/24 06:17	02/14/24 00:00	1
Barium	0.039		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:51	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/14/24 00:00	1
Boron	0.044	J	0.080	0.022	mg/L		02/13/24 06:17	02/14/24 00:00	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/14/24 00:00	1
Calcium	26		0.50	0.14	mg/L		02/13/24 06:17	02/14/24 00:00	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/14/24 00:00	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/14/24 00:00	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/14/24 00:00	1
Lithium	0.0058		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:51	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/14/24 00:00	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/14/24 00:00	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/14/24 00:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		10	10	mg/L			02/09/24 15:40	1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			02/10/24 01:26	1
Fluoride	0.17		0.10	0.040	mg/L			02/10/24 01:26	1
Sulfate	200		1.0	0.40	mg/L			02/10/24 01:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:54	1
Arsenic	0.0012		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:54	1
Barium	0.024		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:43	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:54	1
Boron	2.4		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:54	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:54	1
Calcium	56		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:54	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:54	1
Cobalt	0.0037		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:54	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:54	1
Lithium	0.12		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:43	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:54	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:54	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	350		40	40	mg/L			02/09/24 15:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			02/10/24 01:37	1
Fluoride	0.12		0.10	0.040	mg/L			02/10/24 01:37	1
Sulfate	140		1.0	0.40	mg/L			02/10/24 01:37	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/14/24 00:03	1
Arsenic	0.0023		0.0010	0.00086	mg/L		02/13/24 06:17	02/14/24 00:03	1
Barium	0.12		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:55	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/14/24 00:03	1
Boron	1.6		0.080	0.022	mg/L		02/13/24 06:17	02/14/24 00:03	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/14/24 00:03	1
Calcium	110		0.50	0.14	mg/L		02/13/24 06:17	02/14/24 00:03	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/14/24 00:03	1
Cobalt	0.00024	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/14/24 00:03	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/14/24 00:03	1
Lithium	0.0084		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:55	1
Molybdenum	0.00099	J	0.015	0.00086	mg/L		02/13/24 06:17	02/14/24 00:03	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/14/24 00:03	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/14/24 00:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	420		40	40	mg/L			02/09/24 15:40	1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-246461-8

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			02/10/24 01:48	1
Fluoride	0.12		0.10	0.040	mg/L			02/10/24 01:48	1
Sulfate	140		1.0	0.40	mg/L			02/10/24 01:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:40	1
Arsenic	0.0024		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:40	1
Barium	0.12		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:22	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:40	1
Boron	1.6		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:40	1
Cadmium	0.000085	J	0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:40	1
Calcium	110		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:40	1
Cobalt	0.00025	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-246461-8

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:40	1
Lithium	0.0064		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:22	1
Molybdenum	0.0010	J	0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	410		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-246461-9

Date Collected: 02/06/24 15:35

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/10/24 01:58	1
Fluoride	<0.040		0.10	0.040	mg/L			02/10/24 01:58	1
Sulfate	<0.40		1.0	0.40	mg/L			02/10/24 01:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:43	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:43	1
Barium	0.011		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:26	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:43	1
Boron	0.040	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:43	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:43	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:43	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:43	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:43	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:43	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:43	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:43	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/12/24 12:25	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-246461-10

Date Collected: 02/07/24 11:41

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			02/10/24 02:09	1
Fluoride	0.081	J	0.10	0.040	mg/L			02/10/24 02:09	1
Sulfate	150		1.0	0.40	mg/L			02/10/24 02:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:51	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:16	02/20/24 19:49	1
Barium	0.047		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:38	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:51	1
Boron	1.9		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:51	1
Cadmium	0.00034	J	0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:51	1
Calcium	110		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:51	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:51	1
Cobalt	0.00099	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:51	1
Lead	0.00027	J	0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:51	1
Lithium	0.0051		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:38	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:51	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:51	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	450		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.20	mg/L			02/10/24 02:20	1
Fluoride	0.089	J	0.10	0.040	mg/L			02/10/24 02:20	1
Sulfate	94		1.0	0.40	mg/L			02/10/24 02:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:34	1
Arsenic	0.0021		0.0010	0.00086	mg/L		02/20/24 05:16	02/20/24 19:58	1
Barium	0.18		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:34	1
Boron	0.59		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:34	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:34	1
Calcium	100		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:34	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:34	1
Cobalt	0.00065	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:34	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:34	1
Lithium	0.0081		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:14	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:34	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:34	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	370		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.20	mg/L			02/12/24 13:06	1
Fluoride	0.063	J	0.10	0.040	mg/L			02/12/24 13:06	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	310		5.0	2.0	mg/L			02/12/24 22:52	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:31	1
Arsenic	0.0017		0.0010	0.00086	mg/L		02/20/24 05:16	02/20/24 20:01	1
Barium	0.061		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:31	1
Boron	5.1		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:31	1
Cadmium	0.0034		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:31	1
Calcium	120		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:31	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:31	1
Cobalt	0.00050	J	0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:31	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:31	1
Lithium	0.0076		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:10	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:31	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:31	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00052		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:14	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	590		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-246461-13

Date Collected: 02/07/24 10:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.20	mg/L			02/12/24 13:38	1
Fluoride	0.29		0.10	0.040	mg/L			02/12/24 13:38	1
Sulfate	8.2		1.0	0.40	mg/L			02/12/24 13:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 19:01	1
Arsenic	0.0012		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 19:01	1
Barium	0.055		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 19:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 19:01	1
Boron	0.023	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 19:01	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 19:01	1
Calcium	29		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 19:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 19:01	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 19:01	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 19:01	1
Lithium	0.030	B	0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 19:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 19:01	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 19:01	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 19:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	200		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.20	mg/L			02/12/24 13:48	1
Fluoride	0.26		0.10	0.040	mg/L			02/12/24 13:48	1
Sulfate	6.9		1.0	0.40	mg/L			02/12/24 13:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:37	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0012		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:37	1
Barium	0.056		0.010	0.00089	mg/L		02/13/24 06:17	02/14/24 15:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:37	1
Boron	0.065	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:37	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:37	1
Calcium	29		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:37	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:37	1
Lead	0.0039		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:37	1
Lithium	0.017		0.0050	0.0020	mg/L		02/13/24 06:17	02/14/24 15:18	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:37	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:37	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	200		40	40	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-246461-15

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/12/24 13:59	1
Fluoride	<0.040		0.10	0.040	mg/L			02/12/24 13:59	1
Sulfate	<0.40		1.0	0.40	mg/L			02/12/24 13:59	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 19:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 19:21	1
Barium	0.0018	J	0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 19:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 19:21	1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 19:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 19:21	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 19:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 19:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 19:21	1
Lead	0.00051	J	0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 19:21	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 19:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 19:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 19:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 19:21	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-246461-15

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-246461-16

Date Collected: 02/07/24 09:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/12/24 14:10	1
Fluoride	<0.040		0.10	0.040	mg/L			02/12/24 14:10	1
Sulfate	<0.40		1.0	0.40	mg/L			02/12/24 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 18:58	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 18:58	1
Barium	<0.00089		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 18:58	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 18:58	1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 18:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 18:58	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 18:58	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 18:58	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 18:58	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 18:58	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 18:58	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 18:58	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 18:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 18:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/12/24 12:25	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/12/24 14:20	1
Fluoride	<0.040		0.10	0.040	mg/L			02/12/24 14:20	1
Sulfate	<0.40		1.0	0.40	mg/L			02/12/24 14:20	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 20:13	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 20:13	1
Barium	<0.00089		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 20:13	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 20:13	1
Boron	0.062	J	0.080	0.022	mg/L		02/13/24 06:17	02/13/24 20:13	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 20:13	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 20:13	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 20:13	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 20:13	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 20:13	1
Lithium	0.0070		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 20:13	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 20:13	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 20:13	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 20:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/12/24 12:25	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-821951/33
Matrix: Water
Analysis Batch: 821951

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/09/24 21:21	1
Fluoride	<0.040		0.10	0.040	mg/L			02/09/24 21:21	1
Sulfate	<0.40		1.0	0.40	mg/L			02/09/24 21:21	1

Lab Sample ID: LCS 680-821951/34
Matrix: Water
Analysis Batch: 821951

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.82		mg/L		98	90 - 110
Fluoride	2.00	2.01		mg/L		101	90 - 110
Sulfate	10.0	9.55		mg/L		96	90 - 110

Lab Sample ID: LCSD 680-821951/35
Matrix: Water
Analysis Batch: 821951

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.85		mg/L		99	90 - 110	0	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.63		mg/L		96	90 - 110	1	15

Lab Sample ID: 680-246461-2 MS
Matrix: Water
Analysis Batch: 821951

Client Sample ID: MCI-MGWA-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.1		10.0	13.1		mg/L		100	80 - 120
Fluoride	0.069	J	2.00	2.19		mg/L		106	80 - 120
Sulfate	2.8		10.0	12.3		mg/L		94	80 - 120

Lab Sample ID: 680-246461-2 MSD
Matrix: Water
Analysis Batch: 821951

Client Sample ID: MCI-MGWA-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.1		10.0	13.2		mg/L		101	80 - 120	1	15
Fluoride	0.069	J	2.00	2.22		mg/L		108	80 - 120	2	15
Sulfate	2.8		10.0	12.4		mg/L		95	80 - 120	1	15

Lab Sample ID: MB 680-822239/2
Matrix: Water
Analysis Batch: 822239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/12/24 12:23	1
Fluoride	<0.040		0.10	0.040	mg/L			02/12/24 12:23	1
Sulfate	<0.40		1.0	0.40	mg/L			02/12/24 12:23	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-822239/4
Matrix: Water
Analysis Batch: 822239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.87		mg/L		99	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.71		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-822239/5
Matrix: Water
Analysis Batch: 822239

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.93		mg/L		99	90 - 110	1	15
Fluoride	2.00	2.03		mg/L		101	90 - 110	1	15
Sulfate	10.0	9.84		mg/L		98	90 - 110	1	15

Lab Sample ID: 680-246461-12 MS
Matrix: Water
Analysis Batch: 822239

Client Sample ID: MCI-MGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		10.0	22.6		mg/L		98	80 - 120
Fluoride	0.063	J	2.00	2.09		mg/L		101	80 - 120
Sulfate	300	E	10.0	312	E 4	mg/L		76	80 - 120

Lab Sample ID: 680-246461-12 MSD
Matrix: Water
Analysis Batch: 822239

Client Sample ID: MCI-MGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		10.0	23.0		mg/L		103	80 - 120	2	15
Fluoride	0.063	J	2.00	2.19		mg/L		106	80 - 120	5	15
Sulfate	300	E	10.0	312	E 4	mg/L		79	80 - 120	0	15

Lab Sample ID: MB 680-822280/33
Matrix: Water
Analysis Batch: 822280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/12/24 17:54	1
Fluoride	<0.040		0.10	0.040	mg/L			02/12/24 17:54	1
Sulfate	<0.40		1.0	0.40	mg/L			02/12/24 17:54	1

Lab Sample ID: LCS 680-822280/34
Matrix: Water
Analysis Batch: 822280

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.86		mg/L		99	90 - 110
Fluoride	2.00	2.01		mg/L		100	90 - 110
Sulfate	10.0	9.68		mg/L		97	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-822280/35
Matrix: Water
Analysis Batch: 822280

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.88		mg/L		99	90 - 110	0	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.70		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-246443-A-1 MS
Matrix: Water
Analysis Batch: 822280

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33		10.0	42.9		mg/L		104	80 - 120
Fluoride	0.61		2.00	2.70		mg/L		104	80 - 120
Sulfate	54		10.0	63.3	4	mg/L		92	80 - 120

Lab Sample ID: 680-246443-A-1 MSD
Matrix: Water
Analysis Batch: 822280

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33		10.0	42.6		mg/L		100	80 - 120	1	15
Fluoride	0.61		2.00	2.64		mg/L		102	80 - 120	2	15
Sulfate	54		10.0	63.2	4	mg/L		90	80 - 120	0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-822331/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 18:24	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 18:24	1
Barium	<0.00089		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 18:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 18:24	1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 18:24	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 18:24	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 18:24	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 18:24	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 18:24	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 18:24	1
Lithium	0.00396	J	0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 18:24	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 18:24	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 18:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 18:24	1

Lab Sample ID: LCS 680-822331/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0531		mg/L		106	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: LCS 680-822331/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.100	0.105		mg/L		105	80 - 120
Beryllium	0.0500	0.0529		mg/L		106	80 - 120
Boron	0.400	0.392		mg/L		98	80 - 120
Cadmium	0.0500	0.0534		mg/L		107	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Chromium	0.100	0.105		mg/L		104	80 - 120
Cobalt	0.0500	0.0540		mg/L		108	80 - 120
Lead	0.500	0.500		mg/L		100	80 - 120
Lithium	0.500	0.551		mg/L		110	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.0500	0.0522		mg/L		104	80 - 120

Lab Sample ID: 400-250807-E-1-B MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0531		mg/L		106	75 - 125
Arsenic	<0.00086		0.100	0.101		mg/L		101	75 - 125
Barium	0.080		0.100	0.183		mg/L		103	75 - 125
Beryllium	<0.00020		0.0500	0.0539		mg/L		108	75 - 125
Boron	0.024	J	0.400	0.413		mg/L		97	75 - 125
Cadmium	<0.000078		0.0500	0.0537		mg/L		107	75 - 125
Calcium	1.6		5.00	6.58		mg/L		100	75 - 125
Chromium	<0.0012		0.100	0.106		mg/L		105	75 - 125
Cobalt	0.00073	J	0.0500	0.0550		mg/L		108	75 - 125
Lead	0.00035	J	0.500	0.511		mg/L		102	75 - 125
Lithium	0.0020	J	0.500	0.550		mg/L		110	75 - 125
Molybdenum	<0.00086		0.100	0.105		mg/L		105	75 - 125
Selenium	<0.00099		0.100	0.0958		mg/L		96	75 - 125
Thallium	<0.00026		0.0500	0.0535		mg/L		107	75 - 125

Lab Sample ID: 400-250807-E-1-C MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0553		mg/L		111	75 - 125	4	20
Arsenic	<0.00086		0.100	0.104		mg/L		104	75 - 125	3	20
Barium	0.080		0.100	0.190		mg/L		110	75 - 125	4	20
Beryllium	<0.00020		0.0500	0.0558		mg/L		112	75 - 125	3	20
Boron	0.024	J	0.400	0.433		mg/L		102	75 - 125	5	20
Cadmium	<0.000078		0.0500	0.0563		mg/L		113	75 - 125	5	20
Calcium	1.6		5.00	6.79		mg/L		104	75 - 125	3	20
Chromium	<0.0012		0.100	0.111		mg/L		111	75 - 125	5	20
Cobalt	0.00073	J	0.0500	0.0554		mg/L		109	75 - 125	1	20
Lead	0.00035	J	0.500	0.517		mg/L		103	75 - 125	1	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: 400-250807-E-1-C MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0020	J	0.500	0.573		mg/L		115	75 - 125	4	20
Molybdenum	<0.00086		0.100	0.105		mg/L		105	75 - 125	0	20
Selenium	<0.00099		0.100	0.100		mg/L		100	75 - 125	4	20
Thallium	<0.00026		0.0500	0.0551		mg/L		110	75 - 125	3	20

Lab Sample ID: MB 680-822334/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 23:17	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 23:17	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 23:17	1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 23:17	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 23:17	1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 23:17	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 23:17	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 23:17	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 23:17	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 23:17	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 23:17	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 23:17	1

Lab Sample ID: MB 680-822334/1-A
Matrix: Water
Analysis Batch: 822874

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/13/24 06:17	02/15/24 08:11	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/15/24 08:11	1

Lab Sample ID: LCS 680-822334/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0526		mg/L		105	80 - 120
Arsenic	0.100	0.102		mg/L		102	80 - 120
Beryllium	0.0500	0.0580		mg/L		116	80 - 120
Boron	0.400	0.419		mg/L		105	80 - 120
Cadmium	0.0500	0.0537		mg/L		107	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.109		mg/L		108	80 - 120
Cobalt	0.0500	0.0561		mg/L		112	80 - 120
Lead	0.500	0.535		mg/L		107	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.100	0.0952		mg/L		95	80 - 120
Thallium	0.0500	0.0545		mg/L		109	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: LCS 680-822334/2-A
Matrix: Water
Analysis Batch: 822874

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.102		mg/L		102	80 - 120
Lithium	0.500	0.478		mg/L		96	80 - 120

Lab Sample ID: 400-250810-F-5-E MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0490		mg/L		98	75 - 125
Arsenic	<0.00086		0.100	0.0965		mg/L		96	75 - 125
Beryllium	<0.00020		0.0500	0.0535		mg/L		107	75 - 125
Boron	<0.022		0.400	0.408		mg/L		102	75 - 125
Cadmium	0.00023	J	0.0500	0.0508		mg/L		101	75 - 125
Calcium	4.5		5.00	9.24		mg/L		95	75 - 125
Chromium	<0.0012		0.100	0.101		mg/L		101	75 - 125
Cobalt	0.0052		0.0500	0.0568		mg/L		103	75 - 125
Lead	0.00062	J	0.500	0.495		mg/L		99	75 - 125
Molybdenum	<0.00086		0.100	0.0972		mg/L		97	75 - 125
Selenium	<0.00099		0.100	0.0904		mg/L		90	75 - 125
Thallium	<0.00026		0.0500	0.0507		mg/L		101	75 - 125

Lab Sample ID: 400-250810-F-5-E MS
Matrix: Water
Analysis Batch: 822874

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.059		0.100	0.165		mg/L		107	75 - 125
Lithium	0.0022	J	0.500	0.490		mg/L		98	75 - 125

Lab Sample ID: 400-250810-F-5-F MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00034		0.0500	0.0529		mg/L		106	75 - 125	8	20
Arsenic	<0.00086		0.100	0.103		mg/L		103	75 - 125	6	20
Beryllium	<0.00020		0.0500	0.0572		mg/L		114	75 - 125	7	20
Boron	<0.022		0.400	0.435		mg/L		109	75 - 125	6	20
Cadmium	0.00023	J	0.0500	0.0547		mg/L		109	75 - 125	7	20
Calcium	4.5		5.00	9.66		mg/L		104	75 - 125	4	20
Chromium	<0.0012		0.100	0.107		mg/L		107	75 - 125	6	20
Cobalt	0.0052		0.0500	0.0605		mg/L		110	75 - 125	6	20
Lead	0.00062	J	0.500	0.531		mg/L		106	75 - 125	7	20
Molybdenum	<0.00086		0.100	0.105		mg/L		105	75 - 125	7	20
Selenium	<0.00099		0.100	0.0975		mg/L		98	75 - 125	8	20
Thallium	<0.00026		0.0500	0.0544		mg/L		109	75 - 125	7	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: 400-250810-F-5-F MSD
Matrix: Water
Analysis Batch: 822874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Barium	0.059		0.100	0.164		mg/L		105	75 - 125	1	20
Lithium	0.0022	J	0.500	0.484		mg/L		96	75 - 125	1	20

Lab Sample ID: MB 680-822335/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Antimony	<0.00034		0.0020	0.00034	mg/L		02/13/24 06:17	02/13/24 19:30		1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/13/24 06:17	02/13/24 19:30		1
Barium	<0.00089		0.010	0.00089	mg/L		02/13/24 06:17	02/13/24 19:30		1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/13/24 06:17	02/13/24 19:30		1
Boron	<0.022		0.080	0.022	mg/L		02/13/24 06:17	02/13/24 19:30		1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/13/24 06:17	02/13/24 19:30		1
Calcium	<0.14		0.50	0.14	mg/L		02/13/24 06:17	02/13/24 19:30		1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/13/24 06:17	02/13/24 19:30		1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/13/24 06:17	02/13/24 19:30		1
Lead	<0.00021		0.0010	0.00021	mg/L		02/13/24 06:17	02/13/24 19:30		1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/13/24 06:17	02/13/24 19:30		1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/13/24 06:17	02/13/24 19:30		1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/13/24 06:17	02/13/24 19:30		1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/13/24 06:17	02/13/24 19:30		1

Lab Sample ID: LCS 680-822335/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limits	
Antimony	0.0500	0.0515		mg/L		103	80 - 120	
Arsenic	0.100	0.101		mg/L		101	80 - 120	
Barium	0.100	0.103		mg/L		103	80 - 120	
Beryllium	0.0500	0.0524		mg/L		105	80 - 120	
Boron	0.400	0.386		mg/L		96	80 - 120	
Cadmium	0.0500	0.0524		mg/L		105	80 - 120	
Calcium	5.00	4.98		mg/L		100	80 - 120	
Chromium	0.100	0.103		mg/L		103	80 - 120	
Cobalt	0.0500	0.0527		mg/L		105	80 - 120	
Lead	0.500	0.488		mg/L		98	80 - 120	
Lithium	0.500	0.541		mg/L		108	80 - 120	
Molybdenum	0.100	0.101		mg/L		101	80 - 120	
Selenium	0.100	0.0964		mg/L		96	80 - 120	
Thallium	0.0500	0.0517		mg/L		103	80 - 120	

Lab Sample ID: 680-246512-C-5-B MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Antimony	<0.00034		0.0500	0.0526		mg/L		105	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: 680-246512-C-5-B MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0012		0.100	0.102		mg/L		101	75 - 125
Barium	0.072		0.100	0.173		mg/L		101	75 - 125
Beryllium	<0.00020		0.0500	0.0535		mg/L		107	75 - 125
Boron	0.031	J	0.400	0.419		mg/L		97	75 - 125
Cadmium	<0.000078		0.0500	0.0542		mg/L		108	75 - 125
Calcium	27		5.00	30.9	4	mg/L		71	75 - 125
Chromium	<0.0012		0.100	0.103		mg/L		102	75 - 125
Cobalt	<0.00022		0.0500	0.0527		mg/L		105	75 - 125
Lead	<0.00021		0.500	0.497		mg/L		99	75 - 125
Lithium	<0.0020		0.500	0.538		mg/L		108	75 - 125
Molybdenum	<0.00086		0.100	0.102		mg/L		102	75 - 125
Selenium	0.0012	J	0.100	0.100		mg/L		99	75 - 125
Thallium	<0.00026		0.0500	0.0523		mg/L		105	75 - 125

Lab Sample ID: 680-246512-C-5-C MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0524		mg/L		105	75 - 125	0	20
Arsenic	0.0012		0.100	0.0999		mg/L		99	75 - 125	2	20
Barium	0.072		0.100	0.172		mg/L		99	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0530		mg/L		106	75 - 125	1	20
Boron	0.031	J	0.400	0.416		mg/L		96	75 - 125	1	20
Cadmium	<0.000078		0.0500	0.0536		mg/L		107	75 - 125	1	20
Calcium	27		5.00	31.4	4	mg/L		81	75 - 125	2	20
Chromium	<0.0012		0.100	0.103		mg/L		102	75 - 125	0	20
Cobalt	<0.00022		0.0500	0.0524		mg/L		105	75 - 125	1	20
Lead	<0.00021		0.500	0.492		mg/L		98	75 - 125	1	20
Lithium	<0.0020		0.500	0.534		mg/L		107	75 - 125	1	20
Molybdenum	<0.00086		0.100	0.100		mg/L		100	75 - 125	2	20
Selenium	0.0012	J	0.100	0.0972		mg/L		96	75 - 125	3	20
Thallium	<0.00026		0.0500	0.0520		mg/L		104	75 - 125	1	20

Lab Sample ID: MB 680-823456/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:16	02/20/24 19:44	1

Lab Sample ID: LCS 680-823456/2-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0974		mg/L		97	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: 680-246461-10 MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: MCI-MGWC-2
Prep Type: Total Recoverable
Prep Batch: 823456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.00086		0.100	0.103		mg/L		103	75 - 125

Lab Sample ID: 680-246461-10 MSD
Matrix: Water
Analysis Batch: 823730

Client Sample ID: MCI-MGWC-2
Prep Type: Total Recoverable
Prep Batch: 823456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	<0.00086		0.100	0.0956		mg/L		96	75 - 125	7	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-822361/1-A
Matrix: Water
Analysis Batch: 822533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 09:39	02/13/24 14:15	1

Lab Sample ID: LCS 680-822361/2-A
Matrix: Water
Analysis Batch: 822533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00242		mg/L		97	80 - 120

Lab Sample ID: 400-250810-F-1-D MS
Matrix: Water
Analysis Batch: 822533

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 822361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.00100		mg/L		100	80 - 120

Lab Sample ID: 400-250810-F-1-E MSD
Matrix: Water
Analysis Batch: 822533

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 822361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.000080		0.00100	0.000969		mg/L		97	80 - 120	3	20

Lab Sample ID: MB 680-822442/1-A
Matrix: Water
Analysis Batch: 822688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/13/24 11:15	02/13/24 16:33	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

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

Lab Sample ID: LCS 680-822442/2-A
Matrix: Water
Analysis Batch: 822688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

Lab Sample ID: 680-246538-G-1-H MS
Matrix: Water
Analysis Batch: 822688

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 822442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000992		mg/L		99	80 - 120

Lab Sample ID: 680-246538-G-1-I MSD
Matrix: Water
Analysis Batch: 822688

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 822442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000998		mg/L		100	80 - 120	1	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-821988/1
Matrix: Water
Analysis Batch: 821988

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			02/09/24 15:40	1

Lab Sample ID: LCS 680-821988/2
Matrix: Water
Analysis Batch: 821988

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	2410	2400		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-821988/3
Matrix: Water
Analysis Batch: 821988

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2410	2380		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-246449-A-1 DU
Matrix: Water
Analysis Batch: 821988

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1040		mg/L		0	5

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-246467-C-1 DU
Matrix: Water
Analysis Batch: 821988

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	770		788		mg/L		3	5

Lab Sample ID: MB 680-822245/1
Matrix: Water
Analysis Batch: 822245

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			02/12/24 12:25	1

Lab Sample ID: LCS 680-822245/2
Matrix: Water
Analysis Batch: 822245

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	2410	2440		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-822245/3
Matrix: Water
Analysis Batch: 822245

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2410	2360		mg/L		98	80 - 120	4	25

Lab Sample ID: 680-246461-11 DU
Matrix: Water
Analysis Batch: 822245

Client Sample ID: MCI-MGWC-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		372		mg/L		0.5	5

Lab Sample ID: 680-246461-12 DU
Matrix: Water
Analysis Batch: 822245

Client Sample ID: MCI-MGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	590		574		mg/L		3	5

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

HPLC/IC

Analysis Batch: 821951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	300.0-1993 R2.1	
680-246461-2	MCI-MGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	300.0-1993 R2.1	
680-246461-4	MCI-MGWA-11	Total/NA	Water	300.0-1993 R2.1	
680-246461-5	MCI-MGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-246461-6	MCI-MGWC-7	Total/NA	Water	300.0-1993 R2.1	
680-246461-7	MCI-MGWC-1	Total/NA	Water	300.0-1993 R2.1	
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-246461-10	MCI-MGWC-2	Total/NA	Water	300.0-1993 R2.1	
680-246461-11	MCI-MGWC-3	Total/NA	Water	300.0-1993 R2.1	
MB 680-821951/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-821951/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-821951/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-246461-2 MS	MCI-MGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-246461-2 MSD	MCI-MGWA-6	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 822239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-12	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-246461-13	MCI-MGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	300.0-1993 R2.1	
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	300.0-1993 R2.1	
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	300.0-1993 R2.1	
MB 680-822239/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-822239/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-822239/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-246461-12 MS	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-246461-12 MSD	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 822280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-12 - DL	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
MB 680-822280/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-822280/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-822280/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-246443-A-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-246443-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 822331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total Recoverable	Water	3005A	
680-246461-13	MCI-MGWC-12	Total Recoverable	Water	3005A	
680-246461-15	MCI-AP1-FB-02	Total Recoverable	Water	3005A	
680-246461-16	MCI-AP1-EB-03	Total Recoverable	Water	3005A	
MB 680-822331/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822331/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-250807-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Metals (Continued)

Prep Batch: 822331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-250807-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 822334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-3	MCI-MGWA-6A	Total Recoverable	Water	3005A	
680-246461-5	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-246461-6	MCI-MGWC-7	Total Recoverable	Water	3005A	
680-246461-7	MCI-MGWC-1	Total Recoverable	Water	3005A	
680-246461-8	MCI-AP1-FD-01	Total Recoverable	Water	3005A	
680-246461-9	MCI-AP1-FB-01	Total Recoverable	Water	3005A	
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	3005A	
680-246461-14	MCI-AP1-FD-02	Total Recoverable	Water	3005A	
MB 680-822334/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822334/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-250810-F-5-E MS	Matrix Spike	Total Recoverable	Water	3005A	
400-250810-F-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 822335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-2	MCI-MGWA-6	Total Recoverable	Water	3005A	
680-246461-4	MCI-MGWA-11	Total Recoverable	Water	3005A	
680-246461-17	MCI-AP1-EB-04	Total Recoverable	Water	3005A	
MB 680-822335/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822335/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246512-C-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-246512-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 822361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	7470A	
680-246461-2	MCI-MGWA-6	Total/NA	Water	7470A	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	7470A	
680-246461-4	MCI-MGWA-11	Total/NA	Water	7470A	
MB 680-822361/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-822361/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-250810-F-1-D MS	Matrix Spike	Total/NA	Water	7470A	
400-250810-F-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 822442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-5	MCI-MGWA-5	Total/NA	Water	7470A	
680-246461-6	MCI-MGWC-7	Total/NA	Water	7470A	
680-246461-7	MCI-MGWC-1	Total/NA	Water	7470A	
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	7470A	
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	7470A	
680-246461-10	MCI-MGWC-2	Total/NA	Water	7470A	
680-246461-11	MCI-MGWC-3	Total/NA	Water	7470A	
680-246461-12	MCI-MGWC-8	Total/NA	Water	7470A	
680-246461-13	MCI-MGWC-12	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Metals (Continued)

Prep Batch: 822442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	7470A	
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	7470A	
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	7470A	
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	7470A	
MB 680-822442/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-822442/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246538-G-1-H MS	Matrix Spike	Dissolved	Water	7470A	
680-246538-G-1-I MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 822533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	7470A	822361
680-246461-2	MCI-MGWA-6	Total/NA	Water	7470A	822361
680-246461-3	MCI-MGWA-6A	Total/NA	Water	7470A	822361
680-246461-4	MCI-MGWA-11	Total/NA	Water	7470A	822361
MB 680-822361/1-A	Method Blank	Total/NA	Water	7470A	822361
LCS 680-822361/2-A	Lab Control Sample	Total/NA	Water	7470A	822361
400-250810-F-1-D MS	Matrix Spike	Total/NA	Water	7470A	822361
400-250810-F-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	822361

Analysis Batch: 822626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total Recoverable	Water	6020B	822331
680-246461-2	MCI-MGWA-6	Total Recoverable	Water	6020B	822335
680-246461-3	MCI-MGWA-6A	Total Recoverable	Water	6020B	822334
680-246461-4	MCI-MGWA-11	Total Recoverable	Water	6020B	822335
680-246461-5	MCI-MGWA-5	Total Recoverable	Water	6020B	822334
680-246461-6	MCI-MGWC-7	Total Recoverable	Water	6020B	822334
680-246461-7	MCI-MGWC-1	Total Recoverable	Water	6020B	822334
680-246461-8	MCI-AP1-FD-01	Total Recoverable	Water	6020B	822334
680-246461-9	MCI-AP1-FB-01	Total Recoverable	Water	6020B	822334
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	6020B	822334
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	6020B	822334
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	6020B	822334
680-246461-13	MCI-MGWC-12	Total Recoverable	Water	6020B	822331
680-246461-14	MCI-AP1-FD-02	Total Recoverable	Water	6020B	822334
680-246461-15	MCI-AP1-FB-02	Total Recoverable	Water	6020B	822331
680-246461-16	MCI-AP1-EB-03	Total Recoverable	Water	6020B	822331
680-246461-17	MCI-AP1-EB-04	Total Recoverable	Water	6020B	822335
MB 680-822331/1-A	Method Blank	Total Recoverable	Water	6020B	822331
MB 680-822334/1-A	Method Blank	Total Recoverable	Water	6020B	822334
MB 680-822335/1-A	Method Blank	Total Recoverable	Water	6020B	822335
LCS 680-822331/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822331
LCS 680-822334/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822334
LCS 680-822335/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822335
400-250807-E-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	822331
400-250807-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822331
400-250810-F-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	822334
400-250810-F-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822334
680-246512-C-5-B MS	Matrix Spike	Total Recoverable	Water	6020B	822335
680-246512-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822335

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Metals

Analysis Batch: 822688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-5	MCI-MGWA-5	Total/NA	Water	7470A	822442
680-246461-6	MCI-MGWC-7	Total/NA	Water	7470A	822442
680-246461-7	MCI-MGWC-1	Total/NA	Water	7470A	822442
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	7470A	822442
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	7470A	822442
680-246461-10	MCI-MGWC-2	Total/NA	Water	7470A	822442
680-246461-11	MCI-MGWC-3	Total/NA	Water	7470A	822442
680-246461-12	MCI-MGWC-8	Total/NA	Water	7470A	822442
680-246461-13	MCI-MGWC-12	Total/NA	Water	7470A	822442
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	7470A	822442
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	7470A	822442
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	7470A	822442
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	7470A	822442
MB 680-822442/1-A	Method Blank	Total/NA	Water	7470A	822442
LCS 680-822442/2-A	Lab Control Sample	Total/NA	Water	7470A	822442
680-246538-G-1-H MS	Matrix Spike	Dissolved	Water	7470A	822442
680-246538-G-1-I MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	822442

Analysis Batch: 822874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-3	MCI-MGWA-6A	Total Recoverable	Water	6020B	822334
680-246461-5	MCI-MGWA-5	Total Recoverable	Water	6020B	822334
680-246461-6	MCI-MGWC-7	Total Recoverable	Water	6020B	822334
680-246461-7	MCI-MGWC-1	Total Recoverable	Water	6020B	822334
680-246461-8	MCI-AP1-FD-01	Total Recoverable	Water	6020B	822334
680-246461-9	MCI-AP1-FB-01	Total Recoverable	Water	6020B	822334
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	6020B	822334
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	6020B	822334
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	6020B	822334
680-246461-14	MCI-AP1-FD-02	Total Recoverable	Water	6020B	822334
MB 680-822334/1-A	Method Blank	Total Recoverable	Water	6020B	822334
LCS 680-822334/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822334
400-250810-F-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	822334
400-250810-F-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822334

Prep Batch: 823456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	3005A	
MB 680-823456/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823456/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246461-10 MS	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-246461-10 MSD	MCI-MGWC-2	Total Recoverable	Water	3005A	

Analysis Batch: 823730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	6020B	823456
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	6020B	823456
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	6020B	823456
MB 680-823456/1-A	Method Blank	Total Recoverable	Water	6020B	823456

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Metals (Continued)

Analysis Batch: 823730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-823456/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823456
680-246461-10 MS	MCI-MGWC-2	Total Recoverable	Water	6020B	823456
680-246461-10 MSD	MCI-MGWC-2	Total Recoverable	Water	6020B	823456

General Chemistry

Analysis Batch: 821988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	2540C-2011	
680-246461-2	MCI-MGWA-6	Total/NA	Water	2540C-2011	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	2540C-2011	
680-246461-4	MCI-MGWA-11	Total/NA	Water	2540C-2011	
680-246461-5	MCI-MGWA-5	Total/NA	Water	2540C-2011	
680-246461-6	MCI-MGWC-7	Total/NA	Water	2540C-2011	
680-246461-7	MCI-MGWC-1	Total/NA	Water	2540C-2011	
MB 680-821988/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-821988/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-821988/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246449-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-246467-C-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 822245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	2540C-2011	
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	2540C-2011	
680-246461-10	MCI-MGWC-2	Total/NA	Water	2540C-2011	
680-246461-11	MCI-MGWC-3	Total/NA	Water	2540C-2011	
680-246461-12	MCI-MGWC-8	Total/NA	Water	2540C-2011	
680-246461-13	MCI-MGWC-12	Total/NA	Water	2540C-2011	
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	2540C-2011	
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	2540C-2011	
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	2540C-2011	
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	2540C-2011	
MB 680-822245/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-822245/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-822245/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246461-11 DU	MCI-MGWC-3	Total/NA	Water	2540C-2011	
680-246461-12 DU	MCI-MGWC-8	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/09/24 23:50	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 19:19	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822361	02/13/24 09:39	DW	EET SAV
Total/NA	Analysis	7470A		1			822533	02/13/24 15:04	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 00:22	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822335	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 20:07	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822361	02/13/24 09:39	DW	EET SAV
Total/NA	Analysis	7470A		1			822533	02/13/24 15:06	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 00:54	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:47	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:57	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822361	02/13/24 09:39	DW	EET SAV
Total/NA	Analysis	7470A		1			822533	02/13/24 15:08	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWA-11
Date Collected: 02/06/24 12:42
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-4
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 01:05	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822335	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 20:16	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822361	02/13/24 09:39	DW	EET SAV
Total/NA	Analysis	7470A		1			822533	02/13/24 15:10	DW	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-5
Date Collected: 02/06/24 14:20
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-5
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 01:16	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:51	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/14/24 00:00	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 16:59	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-7
Date Collected: 02/06/24 16:10
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-6
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 01:26	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:43	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:54	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:02	BCB	EET SAV
Instrument ID: QuickTrace2										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	821951	02/10/24 01:37	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			822874	02/14/24 15:55	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSD		1			822626	02/14/24 00:03	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			822688	02/13/24 17:04	BCB	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	821988	02/09/24 15:40	PG	EET SAV

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-246461-8

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	821951	02/10/24 01:48	UI	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			822874	02/14/24 15:22	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSD		1			822626	02/13/24 23:40	BWR	EET SAV
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A Instrument ID: QuickTrace2		1			822688	02/13/24 17:06	BCB	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-FB-01
Date Collected: 02/06/24 15:35
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-9
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 01:58	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:26	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:43	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:08	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-2
Date Collected: 02/07/24 11:41
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-10
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 02:09	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:38	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:51	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	823456	02/20/24 05:16	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 19:49	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:10	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-3
Date Collected: 02/07/24 13:15
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-11
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	300.0-1993 R2.1		1	5 mL	5 mL	821951	02/10/24 02:20	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:14	BWR	EET SAV
Instrument ID: ICPMSC										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-3
Date Collected: 02/07/24 13:15
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:34	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	823456	02/20/24 05:16	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 19:58	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:12	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-8
Date Collected: 02/07/24 10:15
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-12
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	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 13:06	UI	EET SAV
Instrument ID: CICK										
Total/NA	Analysis	300.0-1993 R2.1	DL	5	5 mL	5 mL	822280	02/12/24 22:52	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:10	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:31	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	823456	02/20/24 05:16	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 20:01	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:14	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-12
Date Collected: 02/07/24 10:30
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-13
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	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 13:38	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 19:01	BWR	EET SAV
Instrument ID: ICPMSD										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-MGWC-12
Date Collected: 02/07/24 10:30
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:16	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-02
Date Collected: 02/07/24 00:00
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 13:48	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822874	02/14/24 15:18	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:37	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:22	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-02
Date Collected: 02/07/24 12:30
Date Received: 02/09/24 12:35

Lab Sample ID: 680-246461-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 13:59	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 19:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:24	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-246461-16

Date Collected: 02/07/24 09:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 14:10	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 18:58	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:26	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	822239	02/12/24 14:20	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	822335	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 20:13	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	822442	02/13/24 11:15	DW	EET SAV
Total/NA	Analysis	7470A		1			822688	02/13/24 17:28	BCB	EET SAV
Instrument ID: QuickTrace2										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	822245	02/12/24 12:25	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

1

2

3

4

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11

12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

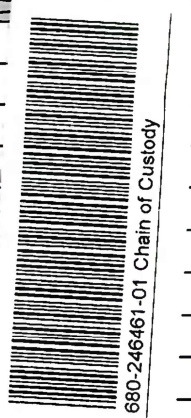
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information		Sampler: ACC <i>T. Cobble / J. Tracy</i>		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No: 1 of 2											
Client Contact: SCS Contacts		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofinsus.com				Page:											
Company: GA Power								Job #:											
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested		Field Filtered Sample (Yes or No)		Preservation Codes:											
City: Atlanta		TAT Requested (days): <i>Standard</i>								App. III Metals (B, Ca) Cl, F, SO ₄ , TDS (EPA 300.0 & SM 2540C)		App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 60207/470)		Radium 226 & 228 (SW-846 9316/9320)					
State, Zip: GA, 30308																Total Number of containers		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 404-506-7116(Tel)		Lab Project #: 68027747																	
Email: SCS Contacts / ACC Contacts		PO #: GPC82130-0002		Special Instructions/Note: Full APP III + APP IV															
Project Name: Plant McIntosh - Ash Pond 1		Project #:				Other:													
Site: Georgia		SSOW#:																	
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)		Total Number of containers											
						Preservation Code:													
MCI- MGWA-10	02/06/24	1044	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWA-6	02/06/24	1003	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWA-6A	02/06/24	1110	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWA-11	02/06/24	1242	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWA-5	02/06/24	1420	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWC-7	02/06/24	1610	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWC-1	02/06/24	1543	G	WG		N	N	✓	✓	✓	✓	5							
MCI- API-FD-01	02/06/24	—	G	WG		N	N	✓	✓	✓	✓	5							
MCI- API-FB-01	02/06/24	1535	G	WQ		N	N	✓	✓	✓	✓	5							
MCI- MGWC-2	02/07/24	1141	G	WG		N	N	✓	✓	✓	✓	5							
MCI- MGWC-3	02/07/24	1315	G	WG		N	N	✓	✓	✓	✓	5							
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<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						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:													
Relinquished by: <i>Taylor Yell</i>		Date/Time: 2-8-24/0750		Company: ACC		Received by: <i>[Signature]</i>		Date/Time: 02/07/24 0750		Company: ACC									
Relinquished by: <i>[Signature]</i>		Date/Time: 02/07/24 1235		Company: ACC		Received by: <i>[Signature]</i>		Date/Time:		Company:									
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: 2/8/24 1235		Company: Eurofins									
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4/1.4 0.5/0.5 1.4/1.4 1.1/1.1 0.5/0.5															



Chain of Custody Record

Client Information		Sampler: <u>T. Goble / J. Tracy</u> ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: <u>2 of 2</u>
Client Contact: SCS Contacts		Phone: <u>770-594-5998</u>	E-Mail: <u>david.fuller@et.eurofinsus.com</u>	Page:	

Company: GA Power	Analysis Requested				Job #:
-------------------	---------------------------	--	--	--	--------

Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Field Filtered Sample (Yes or No) App. III Metals (B, Ca) Cl, F, SO ₄ , TDS (EPA 300.0 & SM 2540C) App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) Radium 226 & 228 (SW-846 9316/9320)	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)			
City: Atlanta	TAT Requested (days): <u>Standard</u>					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: GA, 30308	Lab Project #: <u>68027747</u>					
Phone: 404-506-7116(Tel)	PO #: <u>GPC82130-0002</u>					

Project Name: Plant McIntosh - Ash Pond 1		Project #:	Task Code: MCI-CCR-ASSMT-2024S1 Special Instructions/Note: Full APP III + APP IV
Site: Georgia	SSOW#:		

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)		Analysis Requested								Total Number of containers	
					Field Filtered	Matrix	App. III Metals (B, Ca)	Cl, F, SO ₄ , TDS (EPA 300.0 & SM 2540C)	App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Radium 226 & 228 (SW-846 9316/9320)						
MCI- MGWC-8	02/07/24	1015	G	WG	N	N	✓	✓	✓	✓						5
MCI- MGWC-12	02/07/24	1030	G	WG	N	N	✓	✓	✓	✓						5
MCI- API-FD-02	02/07/24		G	WG	N	N	✓	✓	✓	✓						5
MCI- API-FB-02	02/07/24	1230	G	WQ	N	N	✓	✓	✓	✓						5
MCI- API-FB-03	02/07/24	0915	G	WQ	N	N	✓	✓	✓	✓						5
MCI- API-FB-04	02/07/24	1200	G	WQ	N	N	✓	✓	✓	✓						5
MCI-			G		N	N										
MCI-			G		N	N										
MCI-			G		N	N										
MCI-			G		N	N										
MCI-			G		N	N										

Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <u>T. Goble</u>	Date/Time: <u>2-8-24/0750</u>	Company: <u>ACC</u>	Received by: <u>[Signature]</u>	Date/Time: <u>02/08/24 0750</u>	Company: <u>ACC</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>02/07/24 1235</u>	Company: <u>ACC</u>	Received by: <u>[Signature]</u>	Date/Time:	Company:
Relinquished by: <u>[Signature]</u>	Date/Time:	Company:	Received by: <u>[Signature]</u>	Date/Time: <u>2/8/24 1235</u>	Company: <u>Eurofins</u>

Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246461-1

Login Number: 246461

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308
Generated 3/8/2024 3:42:03 PM

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-246461-2

Eurofins Savannah

Job Notes

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Authorization



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Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246461-1	MCI-MGWA-10	Water	02/06/24 10:44	02/09/24 12:35
680-246461-2	MCI-MGWA-6	Water	02/06/24 10:03	02/09/24 12:35
680-246461-3	MCI-MGWA-6A	Water	02/06/24 11:10	02/09/24 12:35
680-246461-4	MCI-MGWA-11	Water	02/06/24 12:42	02/09/24 12:35
680-246461-5	MCI-MGWA-5	Water	02/06/24 14:20	02/09/24 12:35
680-246461-6	MCI-MGWC-7	Water	02/06/24 16:10	02/09/24 12:35
680-246461-7	MCI-MGWC-1	Water	02/06/24 15:43	02/09/24 12:35
680-246461-8	MCI-AP1-FD-01	Water	02/06/24 00:00	02/09/24 12:35
680-246461-9	MCI-AP1-FB-01	Water	02/06/24 15:35	02/09/24 12:35
680-246461-10	MCI-MGWC-2	Water	02/07/24 11:41	02/09/24 12:35
680-246461-11	MCI-MGWC-3	Water	02/07/24 13:15	02/09/24 12:35
680-246461-12	MCI-MGWC-8	Water	02/07/24 10:15	02/09/24 12:35
680-246461-13	MCI-MGWC-12	Water	02/07/24 10:30	02/09/24 12:35
680-246461-14	MCI-AP1-FD-02	Water	02/07/24 00:00	02/09/24 12:35
680-246461-15	MCI-AP1-FB-02	Water	02/07/24 12:30	02/09/24 12:35
680-246461-16	MCI-AP1-EB-03	Water	02/07/24 09:15	02/09/24 12:35
680-246461-17	MCI-AP1-EB-04	Water	02/07/24 12:00	02/09/24 12:35



Case Narrative

Client: Southern Company
Project: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Job ID: 680-246461-2

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Job Narrative 680-246461-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 2/9/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.5°C, 1.1°C, 1.4°C and 1.4°C.

Gas Flow Proportional Counter

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

Rad

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

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.400		0.126	0.131	1.00	0.121	pCi/L	02/14/24 10:29	03/07/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					02/14/24 10:29	03/07/24 12:17	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.499	U	0.414	0.417	1.00	0.649	pCi/L	02/14/24 10:31	02/27/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					02/14/24 10:31	02/27/24 12:17	1
Y Carrier	80.7		30 - 110					02/14/24 10:31	02/27/24 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.899		0.433	0.437	5.00	0.649	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207		0.0997	0.101	1.00	0.124	pCi/L	02/14/24 10:29	03/07/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					02/14/24 10:29	03/07/24 12:17	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573		0.376	0.379	1.00	0.557	pCi/L	02/14/24 10:31	02/27/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					02/14/24 10:31	02/27/24 12:17	1
Y Carrier	80.7		30 - 110					02/14/24 10:31	02/27/24 12:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.780		0.389	0.392	5.00	0.557	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.445		0.130	0.136	1.00	0.117	pCi/L	02/14/24 10:29	03/07/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					02/14/24 10:29	03/07/24 12:17	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.409	0.409	1.00	0.704	pCi/L	02/14/24 10:31	02/27/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					02/14/24 10:31	02/27/24 12:17	1
Y Carrier	74.0		30 - 110					02/14/24 10:31	02/27/24 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.667	U	0.429	0.431	5.00	0.704	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.168		0.0878	0.0891	1.00	0.109	pCi/L	02/14/24 10:29	03/07/24 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/14/24 10:29	03/07/24 13:56	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.350	U	0.311	0.313	1.00	0.491	pCi/L	02/14/24 10:31	02/27/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/14/24 10:31	02/27/24 12:17	1
Y Carrier	87.9		30 - 110					02/14/24 10:31	02/27/24 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.518		0.323	0.325	5.00	0.491	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.0945	0.0956	1.00	0.131	pCi/L	02/14/24 10:29	03/07/24 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					02/14/24 10:29	03/07/24 13:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.269	U	0.309	0.310	1.00	0.507	pCi/L	02/14/24 10:31	02/27/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					02/14/24 10:31	02/27/24 12:18	1
Y Carrier	79.3		30 - 110					02/14/24 10:31	02/27/24 12:18	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.424	U	0.323	0.324	5.00	0.507	pCi/L		03/07/24 17:29	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.12		0.195	0.220	1.00	0.108	pCi/L	02/14/24 10:29	03/07/24 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/14/24 10:29	03/07/24 13:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.401	U	0.350	0.352	1.00	0.551	pCi/L	02/14/24 10:31	02/27/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/14/24 10:31	02/27/24 12:18	1
Y Carrier	90.1		30 - 110					02/14/24 10:31	02/27/24 12:18	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.52		0.401	0.415	5.00	0.551	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.37		0.212	0.245	1.00	0.104	pCi/L	02/14/24 10:29	03/07/24 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					02/14/24 10:29	03/07/24 13:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620		0.377	0.381	1.00	0.553	pCi/L	02/14/24 10:31	02/27/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					02/14/24 10:31	02/27/24 12:18	1
Y Carrier	89.0		30 - 110					02/14/24 10:31	02/27/24 12:18	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.99		0.433	0.453	5.00	0.553	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-246461-8

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.54		0.224	0.263	1.00	0.103	pCi/L	02/14/24 10:29	03/07/24 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		30 - 110					02/14/24 10:29	03/07/24 13:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00539	U	0.339	0.339	1.00	0.641	pCi/L	02/14/24 10:31	02/27/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		30 - 110					02/14/24 10:31	02/27/24 12:18	1
Y Carrier	73.3		30 - 110					02/14/24 10:31	02/27/24 12:18	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.53		0.406	0.429	5.00	0.641	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-246461-9

Date Collected: 02/06/24 15:35

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00393	U	0.0523	0.0523	1.00	0.112	pCi/L	02/14/24 10:29	03/07/24 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/14/24 10:29	03/07/24 13:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-246461-9

Date Collected: 02/06/24 15:35

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.365	0.367	1.00	0.564	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	77.8		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.434	U	0.369	0.371	5.00	0.564	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-246461-10

Date Collected: 02/07/24 11:41

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0830	0.0839	1.00	0.107	pCi/L	02/14/24 10:29	03/07/24 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					02/14/24 10:29	03/07/24 13:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.963		0.519	0.527	1.00	0.739	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	70.7		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.10		0.526	0.534	5.00	0.739	pCi/L		03/07/24 17:29	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.978		0.188	0.208	1.00	0.123	pCi/L	02/14/24 10:29	03/07/24 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					02/14/24 10:29	03/07/24 13:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.825		0.455	0.461	1.00	0.644	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	70.3		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.80		0.492	0.506	5.00	0.644	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.477		0.128	0.135	1.00	0.0944	pCi/L	02/14/24 10:29	03/07/24 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					02/14/24 10:29	03/07/24 13:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.451	U	0.402	0.404	1.00	0.638	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	87.5		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.929		0.422	0.426	5.00	0.638	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-246461-13

Date Collected: 02/07/24 10:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129		0.0836	0.0844	1.00	0.112	pCi/L	02/14/24 10:29	03/07/24 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					02/14/24 10:29	03/07/24 13:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.577		0.386	0.390	1.00	0.570	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	82.2		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.706		0.395	0.399	5.00	0.570	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.212		0.0985	0.100	1.00	0.109	pCi/L	02/14/24 10:29	03/07/24 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		30 - 110					02/14/24 10:29	03/07/24 13:49	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.613	U	0.535	0.538	1.00	0.851	pCi/L	02/14/24 10:31	02/27/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		30 - 110					02/14/24 10:31	02/27/24 12:19	1
Y Carrier	79.6		30 - 110					02/14/24 10:31	02/27/24 12:19	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.825	U	0.544	0.547	5.00	0.851	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-246461-15

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0276	U	0.0855	0.0855	1.00	0.157	pCi/L	02/14/24 10:29	03/07/24 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		30 - 110					02/14/24 10:29	03/07/24 13:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.303	U	0.406	0.407	1.00	0.679	pCi/L	02/14/24 10:31	02/27/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		30 - 110					02/14/24 10:31	02/27/24 12:12	1
Y Carrier	86.7		30 - 110					02/14/24 10:31	02/27/24 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.331	U	0.415	0.416	5.00	0.679	pCi/L		03/07/24 17:29	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-246461-16

Date Collected: 02/07/24 09:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0475	U	0.0676	0.0677	1.00	0.115	pCi/L	02/14/24 10:29	03/07/24 13:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					02/14/24 10:29	03/07/24 13:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.409	U	0.334	0.336	1.00	0.519	pCi/L	02/14/24 10:31	02/27/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					02/14/24 10:31	02/27/24 12:12	1
Y Carrier	85.6		30 - 110					02/14/24 10:31	02/27/24 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.456	U	0.341	0.343	5.00	0.519	pCi/L		03/07/24 17:29	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0443	U	0.0547	0.0548	1.00	0.0896	pCi/L	02/14/24 10:29	03/07/24 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					02/14/24 10:29	03/07/24 13:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.393	U	0.351	0.353	1.00	0.556	pCi/L	02/14/24 10:31	02/27/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					02/14/24 10:31	02/27/24 12:12	1
Y Carrier	87.5		30 - 110					02/14/24 10:31	02/27/24 12:12	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.437	U	0.355	0.357	5.00	0.556	pCi/L		03/07/24 17:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
680-246461-1	MCI-MGWA-10	85.0	
680-246461-2	MCI-MGWA-6	91.3	
680-246461-3	MCI-MGWA-6A	84.0	
680-246461-4	MCI-MGWA-11	95.5	
680-246461-4 DU	MCI-MGWA-11	98.3	
680-246461-5	MCI-MGWA-5	94.8	
680-246461-6	MCI-MGWC-7	85.8	
680-246461-7	MCI-MGWC-1	90.0	
680-246461-8	MCI-AP1-FD-01	86.5	
680-246461-9	MCI-AP1-FB-01	87.0	
680-246461-10	MCI-MGWC-2	83.5	
680-246461-11	MCI-MGWC-3	92.0	
680-246461-12	MCI-MGWC-8	89.8	
680-246461-13	MCI-MGWC-12	82.8	
680-246461-14	MCI-AP1-FD-02	79.3	
680-246461-15	MCI-AP1-FB-02	79.3	
680-246461-16	MCI-AP1-EB-03	91.8	
680-246461-17	MCI-AP1-EB-04	89.0	
LCS 160-648114/2-A	Lab Control Sample	98.5	
MB 160-648114/1-A	Method Blank	86.8	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
680-246461-1	MCI-MGWA-10	85.0	80.7
680-246461-2	MCI-MGWA-6	91.3	80.7
680-246461-3	MCI-MGWA-6A	84.0	74.0
680-246461-4	MCI-MGWA-11	95.5	87.9
680-246461-4 DU	MCI-MGWA-11	98.3	81.9
680-246461-5	MCI-MGWA-5	94.8	79.3
680-246461-6	MCI-MGWC-7	85.8	90.1
680-246461-7	MCI-MGWC-1	90.0	89.0
680-246461-8	MCI-AP1-FD-01	86.5	73.3
680-246461-9	MCI-AP1-FB-01	87.0	77.8
680-246461-10	MCI-MGWC-2	83.5	70.7
680-246461-11	MCI-MGWC-3	92.0	70.3
680-246461-12	MCI-MGWC-8	89.8	87.5
680-246461-13	MCI-MGWC-12	82.8	82.2
680-246461-14	MCI-AP1-FD-02	79.3	79.6
680-246461-15	MCI-AP1-FB-02	79.3	86.7
680-246461-16	MCI-AP1-EB-03	91.8	85.6
680-246461-17	MCI-AP1-EB-04	89.0	87.5
LCS 160-648115/2-A	Lab Control Sample	98.5	84.5
MB 160-648115/1-A	Method Blank	86.8	80.7

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

1

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-648114/1-A
Matrix: Water
Analysis Batch: 651424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648114

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.001669	U	0.0742	0.0742	1.00	0.146	pCi/L	02/14/24 10:29	03/07/24 12:23	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	86.8		30 - 110		02/14/24 10:29	03/07/24 12:23	1			

Lab Sample ID: LCS 160-648114/2-A
Matrix: Water
Analysis Batch: 651425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648114

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.53		1.09	1.00	0.121	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	98.5		30 - 110						

Lab Sample ID: 680-246461-4 DU
Matrix: Water
Analysis Batch: 651424

Client Sample ID: MCI-MGWA-11
Prep Type: Total/NA
Prep Batch: 648114

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.168		0.2624		0.108	1.00	0.121	pCi/L	0.48	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	98.3		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-648115/1-A
Matrix: Water
Analysis Batch: 649966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648115

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.004950	U	0.280	0.280	1.00	0.536	pCi/L	02/14/24 10:31	02/27/24 12:16	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	86.8		30 - 110		02/14/24 10:31	02/27/24 12:16	1			
Y Carrier	80.7		30 - 110		02/14/24 10:31	02/27/24 12:16	1			

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-648115/2-A
Matrix: Water
Analysis Batch: 649966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648115

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.5		30 - 110
Y Carrier	84.5		30 - 110

Lab Sample ID: 680-246461-4 DU
Matrix: Water
Analysis Batch: 649966

Client Sample ID: MCI-MGWA-11
Prep Type: Total/NA
Prep Batch: 648115

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit

Carrier	DU		Limits
	%Yield	Qualifier	
Ba Carrier	98.3		30 - 110
Y Carrier	81.9		30 - 110

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Rad

Prep Batch: 648114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	PrecSep-21	
680-246461-2	MCI-MGWA-6	Total/NA	Water	PrecSep-21	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	PrecSep-21	
680-246461-4	MCI-MGWA-11	Total/NA	Water	PrecSep-21	
680-246461-5	MCI-MGWA-5	Total/NA	Water	PrecSep-21	
680-246461-6	MCI-MGWC-7	Total/NA	Water	PrecSep-21	
680-246461-7	MCI-MGWC-1	Total/NA	Water	PrecSep-21	
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	PrecSep-21	
680-246461-10	MCI-MGWC-2	Total/NA	Water	PrecSep-21	
680-246461-11	MCI-MGWC-3	Total/NA	Water	PrecSep-21	
680-246461-12	MCI-MGWC-8	Total/NA	Water	PrecSep-21	
680-246461-13	MCI-MGWC-12	Total/NA	Water	PrecSep-21	
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	PrecSep-21	
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	PrecSep-21	
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	PrecSep-21	
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	PrecSep-21	
MB 160-648114/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-648114/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-246461-4 DU	MCI-MGWA-11	Total/NA	Water	PrecSep-21	

Prep Batch: 648115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	PrecSep_0	
680-246461-2	MCI-MGWA-6	Total/NA	Water	PrecSep_0	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	PrecSep_0	
680-246461-4	MCI-MGWA-11	Total/NA	Water	PrecSep_0	
680-246461-5	MCI-MGWA-5	Total/NA	Water	PrecSep_0	
680-246461-6	MCI-MGWC-7	Total/NA	Water	PrecSep_0	
680-246461-7	MCI-MGWC-1	Total/NA	Water	PrecSep_0	
680-246461-8	MCI-AP1-FD-01	Total/NA	Water	PrecSep_0	
680-246461-9	MCI-AP1-FB-01	Total/NA	Water	PrecSep_0	
680-246461-10	MCI-MGWC-2	Total/NA	Water	PrecSep_0	
680-246461-11	MCI-MGWC-3	Total/NA	Water	PrecSep_0	
680-246461-12	MCI-MGWC-8	Total/NA	Water	PrecSep_0	
680-246461-13	MCI-MGWC-12	Total/NA	Water	PrecSep_0	
680-246461-14	MCI-AP1-FD-02	Total/NA	Water	PrecSep_0	
680-246461-15	MCI-AP1-FB-02	Total/NA	Water	PrecSep_0	
680-246461-16	MCI-AP1-EB-03	Total/NA	Water	PrecSep_0	
680-246461-17	MCI-AP1-EB-04	Total/NA	Water	PrecSep_0	
MB 160-648115/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-648115/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-246461-4 DU	MCI-MGWA-11	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.29 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651425	03/07/24 12:17	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			996.29 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:17	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.36 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651425	03/07/24 12:17	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			993.36 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:17	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.15 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651425	03/07/24 12:17	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			994.15 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:17	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.73 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:56	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			994.73 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:17	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.68 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:56	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.68 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:18	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.55 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:56	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.55 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:18	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.08 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:56	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.08 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:18	CMM	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-246461-8

Date Collected: 02/06/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.77 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:57	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.77 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:18	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-246461-9

Date Collected: 02/06/24 15:35

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.71 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:57	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.71 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-246461-10

Date Collected: 02/07/24 11:41

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.75 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:57	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.75 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.03 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:57	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.03 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.47 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651424	03/07/24 13:57	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			993.47 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-246461-13

Date Collected: 02/07/24 10:30

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.23 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651337	03/07/24 13:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			993.23 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.54 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651337	03/07/24 13:49	FLC	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-246461-14

Date Collected: 02/07/24 00:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			991.54 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649966	02/27/24 12:19	CMM	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-246461-15

Date Collected: 02/07/24 12:30

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.64 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651337	03/07/24 13:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.64 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649967	02/27/24 12:12	CMM	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-246461-16

Date Collected: 02/07/24 09:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.54 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651337	03/07/24 13:49	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.54 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649967	02/27/24 12:12	CMM	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.43 mL	1.0 g	648114	02/14/24 10:29	KAC	EET SL
Total/NA	Analysis	9315		1			651337	03/07/24 13:50	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.43 mL	1.0 g	648115	02/14/24 10:31	KAC	EET SL
Total/NA	Analysis	9320		1			649967	02/27/24 12:12	CMM	EET SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-246461-17

Date Collected: 02/07/24 12:00

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			651446	03/07/24 17:29	SCB	EET SL

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Chain of Custody Record

Client Information		Sampler: ACC <i>T. Coble / J. Tracy</i>		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No: 1 of 2				
Client Contact: SCS Contacts		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofinsus.com				Page:				
Company: GA Power								Job #:				
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested		Preservation Codes:						
City: Atlanta		TAT Requested (days): <i>Standard</i>										
State, Zip: GA, 30308		Lab Project #: 68027747										
Phone: 404-506-7116(Tel)		PO #: GPC82130-0002										
Email: SCS Contacts / ACC Contacts		Project #:		SSOW#:				Other:				
Project Name: Plant McIntosh - Ash Pond 1								Task Code: MCI-CCR-ASSMT-2024S1				
Site: Georgia								Special Instructions/Note: Full APP III + APP IV				
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	App. III Metals (B, Ca)	Cl, F, SO ₄ , TDS (EPA 300.0 & SM 2540C)	App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 60207/470)	Radium 226 & 228 (SW-846 9316/9320)	Total Number of containers	
				Preservation Code:								
MCI- MGWA-10	02/06/24	1044	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-6	02/06/24	1003	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-6A	02/06/24	1110	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-11	02/06/24	1242	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-5	02/06/24	1420	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-7	02/06/24	1610	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-1	02/06/24	1543	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-FD-01	02/06/24	—	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-FB-01	02/06/24	1535	G	WQ	N	N	✓	✓	✓	✓	5	
MCI- MGWC-2	02/07/24	1141	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-3	02/07/24	1315	G	WG	N	N	✓	✓	✓	✓	5	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<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						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:						
Relinquished by: <i>T. Coble</i>		Date/Time: 2-8-24/0750		Company: ACC		Received by: <i>[Signature]</i>		Date/Time: 02/07/24 0750				
Relinquished by: <i>[Signature]</i>		Date/Time: 02/07/24 1235		Company: ACC		Received by: <i>[Signature]</i>		Date/Time: 02/07/24 1235				
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: 2/8/24 1235				
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		1.4/1.4 0.5/0.5		1.4/1.4 1.1/1.1 0.5/0.5				



Chain of Custody Record

Client Information					Sampler: <u>F. Goble / J. Tracy</u> ACC		Lab PM: Fuller, David		Carrier Tracking No(s):			COC No: <u>2 of 2</u>												
Client Contact: SCS Contacts					Phone: <u>770-594-5998</u>		E-Mail: david.fuller@et.eurofinsus.com					Page:												
Company: GA Power					Analysis Requested								Job #:											
Address: 241 Ralph McGill Blvd SE													Due Date Requested:		Preservation Codes:									
City: Atlanta					TAT Requested (days): <u>Standard</u>				A - HCL		M - Hexane													
State, Zip: GA, 30308									B - NaOH		N - None													
Phone: 404-506-7116(Tel)					Lab Project #: <u>68027747</u>				C - Zn Acetate		O - AsNaO2													
Email:					PO #:				D - Nitric Acid		P - Na2O4S													
SCS Contacts / ACC Contacts					Project #: <u>GPC82130-0002</u>				E - NaHSO4		Q - Na2SO3													
Project Name: Plant McIntosh - Ash Pond 1					SSOW#:				F - MeOH		R - Na2S2O3													
Site: Georgia									G - Amchlor		S - H2SO4													
Sample Identification					Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=Comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)		Field Filtered Sample (Yes or No)		Total Number of Containers		Other:		Task Code: MCI-CCR-ASSMT-2024S1					
																			Special Instructions/Note: Full APP III + APP IV					
									Preservation Code:															
MCI- MGWC-8					02/07/24		1015		G WG		WG		N		5									
MCI- MGWC-12					02/07/24		1030		G WG		WG		N		5									
MCI- API-FD-02					02/07/24		-		G WG		WG		N		5									
MCI- API-FB-02					02/07/24		1230		G WQ		WQ		N		5									
MCI- API-FB-03					02/07/24		0915		G WQ		WQ		N		5									
MCI- API-FB-04					02/07/24		1200		G WQ		WQ		N		5									
MCI-									G				N											
MCI-									G				N											
MCI-									G				N											
MCI-									G				N											
MCI-									G				N											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
<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					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:					Date:			Time:			Method of Shipment:													
Relinquished by: <u>Teddy Goble</u>					Date/Time: <u>2-8-24/0750</u>			Company: <u>ACC</u>			Received by: <u>[Signature]</u>			Date/Time: <u>5/10/24 0750</u>			Company: <u>ACC</u>							
Relinquished by: <u>[Signature]</u>					Date/Time: <u>02/07/24 1235</u>			Company: <u>ACC</u>			Received by:			Date/Time:			Company:							
Relinquished by:					Date/Time:			Company:			Received by: <u>[Signature]</u>			Date/Time: <u>2/8/24 1235</u>			Company: <u>Eurofins</u>							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:														

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No							
Client Contact		Fuller, David	Fuller, David		680-763380 1							
Shipping/Receiving		Phone	E-Mail	State of Origin	Page							
			David.Fuller@et.eurofins.com	Georgia	1 of 2							
Company		Accreditations Required (See note)		Job #	Preservation Codes:							
Tes/America Laboratories, Inc.		NELAP - Florida, State - Georgia		680-246461-2	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:							
Address		Due Date Requested:		Analysis Requested								
13715 Rider Trail North,		2/20/2024		Total Number of Containers								
City		TAT Requested (days):										
Earth City												
State, Zip		PO #										
MO, 63045												
Phone		WO #										
314-298-8566(Tel) 314-298-8757(Fax)												
Email		Project #										
		68027747										
Project Name		SSOW#										
Plant McIntosh Ash Pond 1												
Site												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-water)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Radium-228	Radium-226	9315_Ra226/PrecSep_21 Radium-226	9320_Ra228/PrecSep_0 Radium-228	Special Instructions/Note:
MCI-MGWA-10 (680-246461-1)	2/6/24	10:44 Eastern	Water	Water		X	X	X	X			
MCI-MGWA-6 (680-246461-2)	2/6/24	10:03 Eastern	Water	Water		X	X	X	X			
MCI-MGWA-6A (680-246461-3)	2/6/24	11:10 Eastern	Water	Water		X	X	X	X			
MCI-MGWA-11 (680-246461-4)	2/6/24	12:42 Eastern	Water	Water		X	X	X	X			
MCI-MGWA-5 (680-246461-5)	2/6/24	14:20 Eastern	Water	Water		X	X	X	X			
MCI-MGWC-7 (680-246461-6)	2/6/24	16:10 Eastern	Water	Water		X	X	X	X			
MCI-MGWC-1 (680-246461-7)	2/6/24	15:43 Eastern	Water	Water		X	X	X	X			
MCI-AP1-FD-01 (680-246461-8)	2/6/24	Eastern	Water	Water		X	X	X	X			
MCI-AP1-FB-01 (680-246461-9)	2/6/24	15:35 Eastern	Water	Water		X	X	X	X			
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p>												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested: I, II, III, IV, Other (specify)												
Primary Deliverable Rank: 2												
Date: _____ Time: _____												
Relinquished by: _____												
Relinquished by: _____												
Relinquished by: _____												
Custody Seals Intact: _____ Custody Seal No.: _____												
Δ Yes Δ No												
Cooler Temperature(s) °C and Other Remarks												
Received by: _____												
Received by: Richard Thornley												
Date/Time: _____												
Date/Time: FEB 13 2024 0900												
Date/Time: _____												
Date/Time: _____												
Method of Shipment												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404

Phone: 912-354-7658 Fax: 912-352-0165

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s)	COC No:	
Client Contact		Fuller, David	Fuller, David		680-763380 2	
Shipping/Receiving		Phone	E-Mail	State of Origin:	Page 2 of 2	
Company		David Fuller@eurofins.com		Georgia	Job #	
TestAmerica Laboratories, Inc.		Accreditations Required (See note)		NELAP - Florida; State - Georgia	680-246461-2	
Address		Due Date Requested:		Preservation Codes:		
13715 Rider Trail North,		2/20/2024		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify)		
City		TAT Requested (days):		Analysis Requested		
Earth City		2		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
State Zip		PO #:		Total Number of Containers		
MO, 63045		WO #:		2		
Phone		Project #		Special Instructions/Note:		
314-298-8566(Tel) 314-298-8757(Fax)		68027747		9315_Ra226/PreSep_21 Radium-226		
Email		SSOW#		9320_Ra228/PreSep_0 Radium-228		
Project Name		Site		Radium-228 9326Ra228_GFC/Combined Radium-226 and Perform MS/MSD (Yes or No)		
Plant McIntosh Ash Pond 1		Sample Date		Field Filtered Sample (Yes or No)		
Site		2/7/24		X		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=water, BT=Issue Area)	Preservation Code:	Special Instructions/Note:
MCI-MGWC-2 (680-246461-10)	2/7/24	11:41 Eastern		Water		
MCI-MGWC-3 (680-246461-11)	2/7/24	13:15 Eastern		Water		
MCI-MGWC-8 (680-246461-12)	2/7/24	10:15 Eastern		Water		
MCI-MGWC-12 (680-246461-13)	2/7/24	10:30 Eastern		Water		
MCI-AP1-FD-02 (680-246461-14)	2/7/24	Eastern		Water		
MCI-AP1-FB-02 (680-246461-15)	2/7/24	12:30 Eastern		Water		
MCI-AP1-EB-03 (680-246461-16)	2/7/24	09:15 Eastern		Water		
MCI-AP1-EB-04 (680-246461-17)	2/7/24	12:00 Eastern		Water		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Relinquished by:	Date:	Method of Shipment:
Relinquished by:	2/12/24 7:00	
Relinquished by:		
Relinquished by:		

Received by: Richard Thornley
 Received by:
 Received by:
 Cooler Temperature(s) °C and Other Remarks:



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246461-2

Login Number: 246461

List Number: 1

Creator: Johnson, Corey M

List Source: Eurofins Savannah

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246461-2

Login Number: 246461

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/13/24 02:48 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/15/2024 9:29:11 AM

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-246461-3

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/15/2024 9:29:11 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246461-1	MCI-MGWA-10	Water	02/06/24 10:44	02/09/24 12:35
680-246461-2	MCI-MGWA-6	Water	02/06/24 10:03	02/09/24 12:35
680-246461-3	MCI-MGWA-6A	Water	02/06/24 11:10	02/09/24 12:35
680-246461-4	MCI-MGWA-11	Water	02/06/24 12:42	02/09/24 12:35
680-246461-5	MCI-MGWA-5	Water	02/06/24 14:20	02/09/24 12:35
680-246461-6	MCI-MGWC-7	Water	02/06/24 16:10	02/09/24 12:35
680-246461-7	MCI-MGWC-1	Water	02/06/24 15:43	02/09/24 12:35
680-246461-10	MCI-MGWC-2	Water	02/07/24 11:41	02/09/24 12:35
680-246461-11	MCI-MGWC-3	Water	02/07/24 13:15	02/09/24 12:35
680-246461-12	MCI-MGWC-8	Water	02/07/24 10:15	02/09/24 12:35
680-246461-13	MCI-MGWC-12	Water	02/07/24 10:30	02/09/24 12:35



Case Narrative

Client: Southern Company
Project: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Job ID: 680-246461-3

Eurofins Savannah

Job Narrative 680-246461-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 2/9/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.5°C, 1.1°C, 1.4°C and 1.4°C

Metals

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

General Chemistry

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

Eurofins Savannah

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.2		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 19:19	1
Magnesium	1.2		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 19:19	1
Sodium	6.4		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	26		5.0	5.0	mg/L			02/09/24 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	26		5.0	5.0	mg/L			02/09/24 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 18:32	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.68		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 20:07	1
Magnesium	2.5		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 20:07	1
Sodium	4.6		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	280		5.0	5.0	mg/L			02/09/24 18:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	280		5.0	5.0	mg/L			02/09/24 18:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 18:12	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.64		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:57	1
Magnesium	2.7		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:57	1
Sodium	4.4		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	260		5.0	5.0	mg/L			02/09/24 16:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	260		5.0	5.0	mg/L			02/09/24 16:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 16:23	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.2		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 20:16	1
Magnesium	12		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 20:16	1
Sodium	11		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	170		5.0	5.0	mg/L			02/09/24 16:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	170		5.0	5.0	mg/L			02/09/24 16:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 16:33	1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.0		0.50	0.044	mg/L		02/13/24 06:17	02/14/24 00:00	1
Magnesium	11		0.50	0.023	mg/L		02/13/24 06:17	02/14/24 00:00	1
Sodium	7.3		0.50	0.20	mg/L		02/13/24 06:17	02/14/24 00:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	5.0	mg/L			02/09/24 18:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	5.0	mg/L			02/09/24 18:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 18:49	1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.0		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:54	1
Magnesium	5.5		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:54	1
Sodium	44		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	36		5.0	5.0	mg/L			02/09/24 18:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	36		5.0	5.0	mg/L			02/09/24 18:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 18:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.1		0.50	0.044	mg/L		02/13/24 06:17	02/14/24 00:03	1
Magnesium	6.1		0.50	0.023	mg/L		02/13/24 06:17	02/14/24 00:03	1
Sodium	21		0.50	0.20	mg/L		02/13/24 06:17	02/14/24 00:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/09/24 17:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/09/24 17:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 17:39	1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-246461-10

Date Collected: 02/07/24 11:41

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.2		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:51	1
Magnesium	18		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:51	1
Sodium	33		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	220		5.0	5.0	mg/L			02/09/24 17:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	220		5.0	5.0	mg/L			02/09/24 17:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 17:19	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.5		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:34	1
Magnesium	5.5		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:34	1
Sodium	15		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	210		5.0	5.0	mg/L			02/09/24 17:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	210		5.0	5.0	mg/L			02/09/24 17:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 17:29	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.1		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:31	1
Magnesium	23		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:31	1
Sodium	26		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/09/24 16:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/09/24 16:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 16:04	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-246461-13

Date Collected: 02/07/24 10:30

Matrix: Water

Date Received: 02/09/24 12:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.9		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 19:01	1
Magnesium	12		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 19:01	1
Sodium	11		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/09/24 16:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	130		5.0	5.0	mg/L			02/09/24 16:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/09/24 16:42	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-822331/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.044		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 18:24	1
Magnesium	<0.023		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 18:24	1
Sodium	<0.20		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 18:24	1

Lab Sample ID: LCS 680-822331/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	7.00	7.13		mg/L		102	80 - 120
Magnesium	5.00	4.98		mg/L		100	80 - 120
Sodium	5.03	4.93		mg/L		98	80 - 120

Lab Sample ID: 400-250807-E-1-B MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	0.47	J	7.00	7.69		mg/L		103	75 - 125
Magnesium	1.4		5.00	6.46		mg/L		101	75 - 125
Sodium	1.3		5.03	6.25		mg/L		99	75 - 125

Lab Sample ID: 400-250807-E-1-C MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	0.47	J	7.00	8.05		mg/L		108	75 - 125	5	20
Magnesium	1.4		5.00	6.63		mg/L		104	75 - 125	3	20
Sodium	1.3		5.03	6.23		mg/L		99	75 - 125	0	20

Lab Sample ID: MB 680-822334/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.044		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 23:17	1
Magnesium	<0.023		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 23:17	1
Sodium	<0.20		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 23:17	1

Lab Sample ID: LCS 680-822334/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	7.00	7.49		mg/L		107	80 - 120
Magnesium	5.00	5.33		mg/L		107	80 - 120
Sodium	5.03	5.32		mg/L		106	80 - 120

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

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

Lab Sample ID: 400-250810-F-5-E MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Potassium	0.69		7.00	7.59		mg/L		99	75 - 125	
Magnesium	0.71		5.00	5.67		mg/L		99	75 - 125	
Sodium	2.0		5.03	6.93		mg/L		97	75 - 125	

Lab Sample ID: 400-250810-F-5-F MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822334

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Potassium	0.69		7.00	7.99		mg/L		104	75 - 125		5	20
Magnesium	0.71		5.00	6.01		mg/L		106	75 - 125		6	20
Sodium	2.0		5.03	7.24		mg/L		103	75 - 125		4	20

Lab Sample ID: MB 680-822335/1-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Potassium	<0.044		0.50	0.044	mg/L		02/13/24 06:17	02/13/24 19:30	1
Magnesium	<0.023		0.50	0.023	mg/L		02/13/24 06:17	02/13/24 19:30	1
Sodium	<0.20		0.50	0.20	mg/L		02/13/24 06:17	02/13/24 19:30	1

Lab Sample ID: LCS 680-822335/2-A
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	
							Result	Qualifier
Potassium	7.00	7.12		mg/L		102	80 - 120	
Magnesium	5.00	4.99		mg/L		100	80 - 120	
Sodium	5.03	4.95		mg/L		99	80 - 120	

Lab Sample ID: 680-246512-C-5-B MS
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Potassium	3.6		7.00	10.6		mg/L		100	75 - 125	
Magnesium	2.3		5.00	7.17		mg/L		98	75 - 125	
Sodium	150		5.03	150	4	mg/L		13	75 - 125	

Lab Sample ID: 680-246512-C-5-C MSD
Matrix: Water
Analysis Batch: 822626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 822335

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Potassium	3.6		7.00	10.6		mg/L		100	75 - 125		0	20
Magnesium	2.3		5.00	7.24		mg/L		99	75 - 125		1	20
Sodium	150		5.03	152	4	mg/L		45	75 - 125		1	20

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-822213/4
Matrix: Water
Analysis Batch: 822213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/09/24 15:37	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/09/24 15:37	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/09/24 15:37	1

Lab Sample ID: LCS 680-822213/6
Matrix: Water
Analysis Batch: 822213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	245		mg/L		98	90 - 112

Lab Sample ID: LCSD 680-822213/31
Matrix: Water
Analysis Batch: 822213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	247		mg/L		99	90 - 112	1	30

Lab Sample ID: 680-246461-2 DU
Matrix: Water
Analysis Batch: 822213

Client Sample ID: MCI-MGWA-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	280		272		mg/L		1	30
Bicarbonate Alkalinity as CaCO3	280		272		mg/L		1	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: 680-246461-12 DU
Matrix: Water
Analysis Batch: 822213

Client Sample ID: MCI-MGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	130		125		mg/L		0.08	30
Bicarbonate Alkalinity as CaCO3	130		125		mg/L		0.08	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Metals

Prep Batch: 822331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total Recoverable	Water	3005A	
680-246461-13	MCI-MGWC-12	Total Recoverable	Water	3005A	
MB 680-822331/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822331/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-250807-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-250807-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 822334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-3	MCI-MGWA-6A	Total Recoverable	Water	3005A	
680-246461-5	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-246461-6	MCI-MGWC-7	Total Recoverable	Water	3005A	
680-246461-7	MCI-MGWC-1	Total Recoverable	Water	3005A	
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	3005A	
MB 680-822334/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822334/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-250810-F-5-E MS	Matrix Spike	Total Recoverable	Water	3005A	
400-250810-F-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 822335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-2	MCI-MGWA-6	Total Recoverable	Water	3005A	
680-246461-4	MCI-MGWA-11	Total Recoverable	Water	3005A	
MB 680-822335/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-822335/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246512-C-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-246512-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 822626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total Recoverable	Water	6020B	822331
680-246461-2	MCI-MGWA-6	Total Recoverable	Water	6020B	822335
680-246461-3	MCI-MGWA-6A	Total Recoverable	Water	6020B	822334
680-246461-4	MCI-MGWA-11	Total Recoverable	Water	6020B	822335
680-246461-5	MCI-MGWA-5	Total Recoverable	Water	6020B	822334
680-246461-6	MCI-MGWC-7	Total Recoverable	Water	6020B	822334
680-246461-7	MCI-MGWC-1	Total Recoverable	Water	6020B	822334
680-246461-10	MCI-MGWC-2	Total Recoverable	Water	6020B	822334
680-246461-11	MCI-MGWC-3	Total Recoverable	Water	6020B	822334
680-246461-12	MCI-MGWC-8	Total Recoverable	Water	6020B	822334
680-246461-13	MCI-MGWC-12	Total Recoverable	Water	6020B	822331
MB 680-822331/1-A	Method Blank	Total Recoverable	Water	6020B	822331
MB 680-822334/1-A	Method Blank	Total Recoverable	Water	6020B	822334
MB 680-822335/1-A	Method Blank	Total Recoverable	Water	6020B	822335
LCS 680-822331/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822331
LCS 680-822334/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822334
LCS 680-822335/2-A	Lab Control Sample	Total Recoverable	Water	6020B	822335
400-250807-E-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	822331
400-250807-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822331

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Metals (Continued)

Analysis Batch: 822626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-250810-F-5-E MS	Matrix Spike	Total Recoverable	Water	6020B	822334
400-250810-F-5-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822334
680-246512-C-5-B MS	Matrix Spike	Total Recoverable	Water	6020B	822335
680-246512-C-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	822335

General Chemistry

Analysis Batch: 822213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246461-1	MCI-MGWA-10	Total/NA	Water	2320B-2011	
680-246461-2	MCI-MGWA-6	Total/NA	Water	2320B-2011	
680-246461-3	MCI-MGWA-6A	Total/NA	Water	2320B-2011	
680-246461-4	MCI-MGWA-11	Total/NA	Water	2320B-2011	
680-246461-5	MCI-MGWA-5	Total/NA	Water	2320B-2011	
680-246461-6	MCI-MGWC-7	Total/NA	Water	2320B-2011	
680-246461-7	MCI-MGWC-1	Total/NA	Water	2320B-2011	
680-246461-10	MCI-MGWC-2	Total/NA	Water	2320B-2011	
680-246461-11	MCI-MGWC-3	Total/NA	Water	2320B-2011	
680-246461-12	MCI-MGWC-8	Total/NA	Water	2320B-2011	
680-246461-13	MCI-MGWC-12	Total/NA	Water	2320B-2011	
MB 680-822213/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-822213/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-822213/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246461-2 DU	MCI-MGWA-6	Total/NA	Water	2320B-2011	
680-246461-12 DU	MCI-MGWC-8	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-246461-1

Date Collected: 02/06/24 10:44

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 19:19	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 18:32	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-246461-2

Date Collected: 02/06/24 10:03

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822335	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 20:07	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 18:12	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-246461-3

Date Collected: 02/06/24 11:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:57	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 16:23	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-246461-4

Date Collected: 02/06/24 12:42

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822335	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 20:16	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 16:33	PG	EET SAV
		Instrument ID: MANTECH 2								

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-246461-5

Date Collected: 02/06/24 14:20

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/14/24 00:00	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 18:49	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-246461-6

Date Collected: 02/06/24 16:10

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:54	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 18:40	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-246461-7

Date Collected: 02/06/24 15:43

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/14/24 00:03	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 17:39	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-246461-10

Date Collected: 02/07/24 11:41

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:51	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 17:19	PG	EET SAV
		Instrument ID: MANTECH 2								

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-246461-11

Date Collected: 02/07/24 13:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:34	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 17:29	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-246461-12

Date Collected: 02/07/24 10:15

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822334	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 23:31	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 16:04	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-246461-13

Date Collected: 02/07/24 10:30

Matrix: Water

Date Received: 02/09/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	822331	02/13/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			822626	02/13/24 19:01	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			822213	02/09/24 16:42	PG	EET SAV
Instrument ID: MANTECH 2										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

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Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-246461-3

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



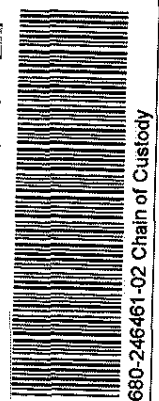
Chain of Custody Record

6-0001

Client Information	Sampler: <u>T Gable / J Tracy</u> ACC	Lab PM: Fuller David	Carrier Tracking No(s):	COC No: <u>10</u>
Client Contact:	Phone:	E-Mail: david.fuller@et.eurofinsus.com	Page:	
SCS Contacts	Company: GA Power			Job #:

Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Field Filtered Sample (Yes or No)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Cations: Mg, Na, K	Total, Carbonate, Bicarbonate Alkalinity	Total Number of Containers	Analysis Requested		Preservation Codes:	
City: Atlanta	TAT Requested (days): <u>Standard</u>									A HCL M Hexane	
State, Zip: GA, 30308	Lab Project #: 68027747									B NaOH N None	
Phone: 404-506-7116(Tel)	PO #: GPC82130-0002									C Zn Acetate O AsNaO2	
Email: SCS Contacts / ACC Contacts	Project #:									D Nitric Acid P Na2O4S	
Project Name: Plant McIntosh Ash Pond 1	SSOW#:									E NaHSO4 Q Na2SO3	
Site: Georgia				F MeOH R Na2S2O3							
				G Amchlor S H2SO4							
				H Ascorbic Acid T TSP Dodecahydrate							
				I Ice U Acetone							
				J DI Water V MCAA							
				K EDTA W pH 4-5							
				L EDA Z other (specify)							

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Field Filtered Sample (Yes or No)	Cations: Mg, Na, K	Total, Carbonate, Bicarbonate Alkalinity	Total Number of Containers	Task Code: MCI-CCR-ASSMT-2024S1	Special Instructions/Note: ALK + 3 Cations (Report Separately)
MCI-MGWA-10	02/06/24	1044	G	WG	N	N	✓	✓	1		
MCI-MGWA-11	02/06/24	1242	G	WG	N	N	✓	✓	1		
MCI-MGWA-5	02/06/24	1420	G	WG	N	N	✓	✓	1		
MCI-MGWA-6	02/06/24	1003	G	WG	N	N	✓	✓	1		
MCI-MGWA-6A	02/06/24	1110	G	WG	N	N	✓	✓	1		
MCI-MGWC-1	02/06/24	1543	G	WG	N	N	✓	✓	1		
MCI-MGWC-2	02/07/24	1141	G	WG	N	N	✓	✓	1		
MCI-MGWC-3	02/07/24	1315	G	WG	N	N	✓	✓	1		
MCI-MGWC-7	02/06/24	1610	G	WG	N	N	✓	✓	1		
MCI-MGWC-8	02/07/24	1015	G	WG	N	N	✓	✓	1		
MCI-MGWC-12	02/07/24	1030	G	WG	N	N	✓	✓	1		



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
<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	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I II, III IV Other (specify)	Special Instructions/QC Requirements: Additional Cations: magnesium sodium potassium

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <u>[Signature]</u>	Date/Time: 2-8-24/0750	Company: ACC	Received by: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date/Time: 02/08/24 1235	Company: ACC	Date/Time: 02/08/24
Relinquished by: <u>[Signature]</u>	Date/Time:	Company:	Date/Time: 2/8/24 1235

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246461-3

Login Number: 246461

List Number: 1

Creator: Johnson, Corey M

List Source: Eurofins Savannah

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



LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Ash Pond 1

Semiannual Event

February 2024

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – February 2024

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah and St. Louis for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between February 6, 2024 and February 7, 2024. 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 680-246461-1 was revised to correct errant data following arsenic reanalysis.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection 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 (US EPA Method 6020B), Mercury in Liquid Wastes (US EPA Method 7470A), Determination of Inorganic Anions (US EPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (US EPA Method 9315), and Radium-228 (US EPA Method 9320).

Data were reviewed in accordance with the US EPA Region 4 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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 were reviewed. If 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, except for lithium and combined radium from MCI-MGWC-1 (680-246461-7) and lithium from MCI-MGWC-12 (680-246461-13) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, except for sulfate from MCI-MGWC-8 (680-246461-12) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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.

ND: 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 MCI-MGWC-1 (680-246461-7) and MCI-AP1-FD-01 (680-246461-8) were qualified as estimated (J) for lithium as the field relative percent difference (RPD) exceeded QC criteria (27.0%, above the limit of 20).
- Samples MCI-MGWC-12 (680-246461-13) and MCI-AP1-FD-02 (680-246461-14) were qualified as estimated (J) for lithium as the field RPD exceeded QC criteria (55.3% above the limit of 20).
- Samples MCI-MGWC-1 (680-246461-7) and MCI-AP1-FD-01 (680-246461-8) were qualified as estimated (J) for combined radium as the field RPD exceeded QC criteria (26.1%, above the limit of 20).
- Sample MCI-MGWC-8 (680-246461-12) was qualified as estimated (J) for sulfate as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (76% and 79%, respectively, below the range of 80-120).
- Certain lithium results on work order 680-246461-1 were qualified as estimated (J) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was well above the RL, the RL was not revised as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between February 6, 2024 and February 7, 2024 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

¹US EPA, 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

²US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1
2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
Sample Summary Table – February 2024
Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
246461-1	MCI-MGWA-10	02/06/24	680-246461-1	WG		X	X	X	
246461-2	MCI-MGWA-10	02/06/24	680-246461-1	WG					X
246461-1	MCI-MGWA-6	02/06/24	680-246461-2	WG		X	X	X	
246461-2	MCI-MGWA-6	02/06/24	680-246461-2	WG					X
246461-1	MCI-MGWA-6A	02/06/24	680-246461-3	WG		X	X	X	
246461-2	MCI-MGWA-6A	02/06/24	680-246461-3	WG					X
246461-1	MCI-MGWA-11	02/06/24	680-246461-4	WG		X	X	X	
246461-2	MCI-MGWA-11	02/06/24	680-246461-4	WG					X
246461-1	MCI-MGWA-5	02/06/24	680-246461-5	WG		X	X	X	
246461-2	MCI-MGWA-5	02/06/24	680-246461-5	WG					X
246461-1	MCI-MGWC-7	02/06/24	680-246461-6	WG		X	X	X	
246461-2	MCI-MGWC-7	02/06/24	680-246461-6	WG					X
246461-1	MCI-MGWC-1	02/06/24	680-246461-7	WG		X	X	X	
246461-2	MCI-MGWC-1	02/06/24	680-246461-7	WG					X
246461-1	MCI-AP1-FD-01	02/06/24	680-246461-8	WG	FD (MCI-MGWC-1)	X	X	X	
246461-2	MCI-AP1-FD-01	02/06/24	680-246461-8	WG	FD (MCI-MGWC-1)				X
246461-1	MCI-AP1-FB-01	02/06/24	680-246461-9	WQ	FB	X	X	X	
246461-2	MCI-AP1-FB-01	02/06/24	680-246461-9	WQ	FB				X
246461-1	MCI-MGWC-2	02/07/24	680-246461-10	WG		X	X	X	
246461-2	MCI-MGWC-2	02/07/24	680-246461-10	WG					X
246461-1	MCI-MGWC-3	02/07/24	680-246461-11	WG		X	X	X	
246461-2	MCI-MGWC-3	02/07/24	680-246461-11	WG					X
246461-1	MCI-MGWC-8	02/07/24	680-246461-12	WG		X	X	X	
246461-2	MCI-MGWC-8	02/07/24	680-246461-12	WG					X
246461-1	MCI-MGWC-12	02/07/24	680-246461-13	WG		X	X	X	
246461-2	MCI-MGWC-12	02/07/24	680-246461-13	WG					X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

Plant McIntosh Ash Pond 1
 2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1

Sample Summary Table – February 2024 (continued)

Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
246461-1	MCI-AP1-FD-02	02/07/24	680-246461-14	WG	FD (MCI-MGWC-12)	X	X	X	
246461-2	MCI-AP1-FD-02	02/07/24	680-246461-14	WG	FD (MCI-MGWC-12)				X
246461-1	MCI-AP1-FB-02	02/07/24	680-246461-15	WQ	FB	X	X	X	
246461-2	MCI-AP1-FB-02	02/07/24	680-246461-15	WQ	FB				X
246461-1	MCI-AP1-EB-03	02/07/24	680-246461-16	WQ	EB	X	X	X	
246461-2	MCI-AP1-EB-03	02/07/24	680-246461-16	WQ	EB				X
246461-1	MCI-AP1-EB-04	02/07/24	680-246461-17	WQ	EB	X	X	X	
246461-2	MCI-AP1-EB-04	02/07/24	680-246461-17	WQ	EB				X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

Plant McIntosh Ash Pond 1
 2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Qualifier Summary Table – February 2024
 Georgia Power Company – McIntosh AP1

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
246461-1	MCI-MGWA-10	Lithium			J	Blank detection
246461-1	MCI-MGWC-12	Lithium			J	Blank detection
246461-1	MCI-MGWC-1	Lithium			J	RPD exceeds field goal
246461-1	MCI-AP1-FD-01	Lithium			J	RPD exceeds field goal
246461-1	MCI-MGWC-12	Lithium			J	RPD exceeds field goal
246461-1	MCI-AP1-FD-02	Lithium			J	RPD exceeds field goal
246461-2	MCI-MGWC-1	Combined Radium			J	RPD exceeds field goal
246461-2	MCI-AP1-FD-01	Combined Radium			J	RPD exceeds field goal
246461-1	MCI-MGWC-8	Sulfate			J	MS/MSD outside QC criterion

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
 ND – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Ash Pond 1

Major Ions Event

February 2024

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – February 2024

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between February 6, 2024 and February 7, 2024. 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.

The samples were analyzed for major ion constituents. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B) and Alkalinity in Water (Standard Methods 2320B).

Data were reviewed in accordance with the US EPA Region 4 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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 (laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If 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 not applicable to this sampling event.
- 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.
- ND:** 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.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between February 6, 2024 and February 7, 2024 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

¹US EPA, 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

²US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1
 2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Sample Summary Table – February 2024
 Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses	
						Metals (6020B)	Alkalinity (SM 2320B)
246461-3	MCI-MGWA-10	02/06/24	680-246461-1	WG		X	X
246461-3	MCI-MGWA-6	02/06/24	680-246461-2	WG		X	X
246461-3	MCI-MGWA-6A	02/06/24	680-246461-3	WG		X	X
246461-3	MCI-MGWA-11	02/06/24	680-246461-4	WG		X	X
246461-3	MCI-MGWA-5	02/06/24	680-246461-5	WG		X	X
246461-3	MCI-MGWC-7	02/06/24	680-246461-6	WG		X	X
246461-3	MCI-MGWC-1	02/06/24	680-246461-7	WG		X	X
246461-3	MCI-MGWC-2	02/07/24	680-246461-10	WG		X	X
246461-3	MCI-MGWC-3	02/07/24	680-246461-11	WG		X	X
246461-3	MCI-MGWC-8	02/07/24	680-246461-12	WG		X	X
246461-3	MCI-MGWC-12	02/07/24	680-246461-13	WG		X	X

Abbreviations:
 QC – Quality Control
 SDG – Sample Delivery Group
 WG – Groundwater

Low-Flow Test Report:

Test Date / Time: 2/6/2024 2:38:24 PM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.08 ft Total Depth: 56.08 ft Initial Depth to Water: 40.46 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 51 ft Estimated Total Volume Pumped: 14625 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 1.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Sampled at 1543. AP1-FD-01 taken here. Clear 56 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 2:38 PM	00:00	7.46 pH	19.66 °C	685.26 µS/cm	6.36 mg/L	29.40 NTU	69.7 mV	41.05 ft	225.00 ml/min
2/6/2024 2:43 PM	05:00	7.52 pH	20.14 °C	709.12 µS/cm	5.94 mg/L	29.20 NTU	69.5 mV	41.36 ft	225.00 ml/min
2/6/2024 2:48 PM	10:00	7.51 pH	20.05 °C	713.19 µS/cm	6.30 mg/L	28.70 NTU	72.8 mV	41.55 ft	225.00 ml/min
2/6/2024 2:53 PM	15:00	7.49 pH	19.91 °C	717.22 µS/cm	5.91 mg/L	26.10 NTU	76.6 mV	41.62 ft	225.00 ml/min
2/6/2024 2:58 PM	20:00	7.49 pH	19.70 °C	721.27 µS/cm	5.73 mg/L	24.50 NTU	80.5 mV	41.66 ft	225.00 ml/min
2/6/2024 3:03 PM	25:00	7.47 pH	20.01 °C	689.91 µS/cm	5.48 mg/L	22.50 NTU	85.4 mV	41.69 ft	225.00 ml/min
2/6/2024 3:08 PM	30:00	7.44 pH	20.14 °C	680.87 µS/cm	5.44 mg/L	19.90 NTU	93.9 mV	41.69 ft	225.00 ml/min
2/6/2024 3:13 PM	35:00	7.44 pH	20.12 °C	691.48 µS/cm	5.34 mg/L	17.00 NTU	99.5 mV	41.69 ft	225.00 ml/min
2/6/2024 3:18 PM	40:00	7.46 pH	20.19 °C	711.57 µS/cm	4.90 mg/L	12.30 NTU	103.7 mV	41.69 ft	225.00 ml/min
2/6/2024 3:23 PM	45:00	7.46 pH	20.10 °C	715.07 µS/cm	4.68 mg/L	7.93 NTU	107.3 mV	41.69 ft	225.00 ml/min
2/6/2024 3:28 PM	50:00	7.46 pH	20.10 °C	717.63 µS/cm	4.49 mg/L	6.31 NTU	108.5 mV	41.69 ft	225.00 ml/min
2/6/2024 3:33 PM	55:00	7.47 pH	20.64 °C	716.44 µS/cm	4.14 mg/L	6.37 NTU	116.9 mV	41.69 ft	225.00 ml/min
2/6/2024 3:38 PM	01:00:00	7.47 pH	20.32 °C	721.10 µS/cm	4.05 mg/L	5.58 NTU	116.6 mV	41.69 ft	225.00 ml/min
2/6/2024 3:43 PM	01:05:00	7.47 pH	20.30 °C	720.84 µS/cm	3.79 mg/L	4.72 NTU	117.5 mV	41.69 ft	225.00 ml/min

Low-Flow Test Report:

Test Date / Time: 2/7/2024 11:11:49 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.36 ft Total Depth: 37.36 ft Initial Depth to Water: 22.01 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.39 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Sampled at 1141. Clear 46 degrees. AP1-FB-02

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/7/2024 11:11 AM	00:00	7.69 pH	18.49 °C	676.01 µS/cm	3.42 mg/L	1.54 NTU	79.3 mV	22.81 ft	200.00 ml/min
2/7/2024 11:16 AM	05:00	7.71 pH	19.22 °C	673.87 µS/cm	1.03 mg/L	1.33 NTU	75.0 mV	23.15 ft	200.00 ml/min
2/7/2024 11:21 AM	10:00	7.71 pH	19.72 °C	666.53 µS/cm	0.59 mg/L	1.47 NTU	88.7 mV	23.40 ft	200.00 ml/min
2/7/2024 11:26 AM	15:00	7.71 pH	19.44 °C	663.29 µS/cm	0.14 mg/L	1.55 NTU	92.7 mV	23.40 ft	200.00 ml/min
2/7/2024 11:31 AM	20:00	7.70 pH	19.92 °C	666.55 µS/cm	0.13 mg/L	1.63 NTU	96.6 mV	23.40 ft	200.00 ml/min
2/7/2024 11:36 AM	25:00	7.70 pH	19.27 °C	670.07 µS/cm	0.12 mg/L	1.09 NTU	98.8 mV	23.40 ft	200.00 ml/min
2/7/2024 11:41 AM	30:00	7.71 pH	19.21 °C	671.12 µS/cm	0.12 mg/L	1.05 NTU	99.1 mV	23.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/7/2024 12:45:05 PM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWC-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.74 ft Total Depth: 38.74 ft Initial Depth to Water: 21.6 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time 1315 weather is Sunny 53

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/7/2024 12:45 PM	00:00	6.77 pH	23.49 °C	363.91 µS/cm	0.93 mg/L	0.93 NTU	72.3 mV	21.60 ft	200.00 ml/min
2/7/2024 12:50 PM	05:00	7.23 pH	17.29 °C	405.27 µS/cm	0.12 mg/L	0.97 NTU	57.4 mV	22.10 ft	200.00 ml/min
2/7/2024 12:55 PM	10:00	7.31 pH	19.80 °C	386.75 µS/cm	0.07 mg/L	0.72 NTU	50.9 mV	22.10 ft	200.00 ml/min
2/7/2024 1:00 PM	15:00	7.36 pH	20.33 °C	381.45 µS/cm	0.03 mg/L	0.73 NTU	47.7 mV	22.10 ft	200.00 ml/min
2/7/2024 1:05 PM	20:00	7.41 pH	19.77 °C	389.70 µS/cm	0.05 mg/L	0.74 NTU	45.3 mV	22.10 ft	200.00 ml/min
2/7/2024 1:10 PM	25:00	7.47 pH	20.15 °C	386.12 µS/cm	0.05 mg/L	0.76 NTU	43.7 mV	22.10 ft	200.00 ml/min
2/7/2024 1:15 PM	30:00	7.49 pH	19.89 °C	388.25 µS/cm	0.05 mg/L	0.83 NTU	42.7 mV	22.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 1:30:27 PM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.09 ft Total Depth: 63.09 ft Initial Depth to Water: 25.55 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 13.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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Test Notes:

Weather is Sunny and 50s sample time is 1420

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 1:30 PM	00:00	7.77 pH	19.59 °C	233.68 µS/cm	2.90 mg/L	1.68 NTU	34.7 mV	25.55 ft	130.00 ml/min
2/6/2024 1:35 PM	05:00	7.78 pH	19.25 °C	232.83 µS/cm	2.78 mg/L	1.30 NTU	31.1 mV	26.63 ft	130.00 ml/min
2/6/2024 1:40 PM	10:00	7.78 pH	19.23 °C	229.91 µS/cm	2.77 mg/L	1.60 NTU	16.8 mV	26.70 ft	130.00 ml/min
2/6/2024 1:45 PM	15:00	7.75 pH	19.15 °C	231.80 µS/cm	2.54 mg/L	1.73 NTU	15.5 mV	26.70 ft	130.00 ml/min
2/6/2024 1:50 PM	20:00	7.76 pH	19.41 °C	231.47 µS/cm	2.41 mg/L	1.73 NTU	15.1 mV	26.70 ft	130.00 ml/min
2/6/2024 1:55 PM	25:00	7.75 pH	19.12 °C	229.96 µS/cm	2.29 mg/L	2.45 NTU	13.2 mV	26.70 ft	130.00 ml/min
2/6/2024 2:00 PM	30:00	7.68 pH	19.06 °C	229.74 µS/cm	1.24 mg/L	3.62 NTU	-17.3 mV	26.70 ft	130.00 ml/min
2/6/2024 2:05 PM	35:00	7.67 pH	19.23 °C	233.00 µS/cm	0.82 mg/L	3.93 NTU	-23.2 mV	26.70 ft	130.00 ml/min
2/6/2024 2:10 PM	40:00	7.66 pH	19.03 °C	233.58 µS/cm	0.69 mg/L	4.16 NTU	-34.5 mV	26.70 ft	130.00 ml/min
2/6/2024 2:15 PM	45:00	7.68 pH	18.98 °C	235.95 µS/cm	0.55 mg/L	3.50 NTU	-42.0 mV	26.70 ft	130.00 ml/min
2/6/2024 2:20 PM	50:00	7.67 pH	18.88 °C	237.50 µS/cm	0.51 mg/L	3.25 NTU	-49.9 mV	26.70 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 9:37:58 AM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.93 ft Total Depth: 41.93 ft Initial Depth to Water: 24.97 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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Test Notes:

Weather is Sunny and 50s sample time is 1003

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 9:37 AM	00:00	7.06 pH	16.86 °C	509.04 µS/cm	0.49 mg/L	1.56 NTU	55.0 mV	24.97 ft	150.00 ml/min
2/6/2024 9:42 AM	05:00	7.07 pH	18.15 °C	494.05 µS/cm	0.32 mg/L	1.35 NTU	38.8 mV	25.26 ft	150.00 ml/min
2/6/2024 9:47 AM	10:00	7.06 pH	18.58 °C	493.85 µS/cm	0.25 mg/L	1.86 NTU	32.1 mV	25.27 ft	150.00 ml/min
2/6/2024 9:52 AM	15:00	7.06 pH	18.79 °C	495.01 µS/cm	0.22 mg/L	1.39 NTU	23.1 mV	25.27 ft	150.00 ml/min
2/6/2024 9:57 AM	20:00	7.07 pH	18.70 °C	492.35 µS/cm	0.21 mg/L	1.42 NTU	18.1 mV	25.27 ft	150.00 ml/min
2/6/2024 10:02 AM	25:00	7.07 pH	18.84 °C	500.04 µS/cm	0.21 mg/L	1.41 NTU	16.2 mV	25.27 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 10:40:24 AM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWA-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.67 ft Total Depth: 39.67 ft Initial Depth to Water: 23.6 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 22.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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Test Notes:

Sample time is 1110 weather is Sunny, windy and 50

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 10:40 AM	00:00	7.30 pH	20.66 °C	428.46 µS/cm	4.95 mg/L	7.85 NTU	46.5 mV	23.60 ft	150.00 ml/min
2/6/2024 10:45 AM	05:00	7.23 pH	19.03 °C	474.91 µS/cm	1.67 mg/L	7.82 NTU	22.2 mV	24.96 ft	150.00 ml/min
2/6/2024 10:50 AM	10:00	7.24 pH	19.06 °C	475.23 µS/cm	0.84 mg/L	7.71 NTU	-15.9 mV	25.26 ft	150.00 ml/min
2/6/2024 10:55 AM	15:00	7.24 pH	18.81 °C	477.12 µS/cm	0.58 mg/L	7.34 NTU	-35.4 mV	25.40 ft	150.00 ml/min
2/6/2024 11:00 AM	20:00	7.24 pH	18.83 °C	478.28 µS/cm	0.40 mg/L	6.10 NTU	-46.1 mV	25.45 ft	150.00 ml/min
2/6/2024 11:05 AM	25:00	7.23 pH	18.70 °C	479.48 µS/cm	0.28 mg/L	5.44 NTU	-50.9 mV	25.45 ft	150.00 ml/min
2/6/2024 11:10 AM	30:00	7.23 pH	18.64 °C	478.63 µS/cm	0.26 mg/L	3.49 NTU	-50.9 mV	25.45 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 3:25:23 PM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.29 ft Total Depth: 42.29 ft Initial Depth to Water: 24.81 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 6.12 in	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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Test Notes:

Sample time 1610 weather is 56 and Sunny/windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 3:25 PM	00:00	6.49 pH	19.06 °C	448.23 µS/cm	0.78 mg/L	1.51 NTU	55.4 mV	24.81 ft	140.00 ml/min
2/6/2024 3:30 PM	05:00	6.48 pH	18.98 °C	449.68 µS/cm	0.62 mg/L	1.85 NTU	30.8 mV	25.32 ft	140.00 ml/min
2/6/2024 3:35 PM	10:00	6.49 pH	18.90 °C	443.09 µS/cm	0.55 mg/L	2.58 NTU	27.3 mV	25.32 ft	140.00 ml/min
2/6/2024 3:40 PM	15:00	6.50 pH	18.61 °C	446.39 µS/cm	0.34 mg/L	1.85 NTU	25.1 mV	25.32 ft	140.00 ml/min
2/6/2024 3:45 PM	20:00	6.58 pH	18.65 °C	459.50 µS/cm	0.23 mg/L	1.60 NTU	17.3 mV	25.32 ft	140.00 ml/min
2/6/2024 3:50 PM	25:00	6.79 pH	18.67 °C	483.00 µS/cm	0.17 mg/L	1.45 NTU	-1.3 mV	25.32 ft	140.00 ml/min
2/6/2024 3:55 PM	30:00	6.85 pH	18.61 °C	493.77 µS/cm	0.14 mg/L	1.32 NTU	-7.4 mV	25.32 ft	140.00 ml/min
2/6/2024 4:00 PM	35:00	6.94 pH	18.65 °C	507.54 µS/cm	0.12 mg/L	1.24 NTU	-11.5 mV	25.32 ft	140.00 ml/min
2/6/2024 4:05 PM	40:00	6.97 pH	18.55 °C	515.30 µS/cm	0.10 mg/L	1.65 NTU	-13.3 mV	25.32 ft	140.00 ml/min
2/6/2024 4:10 PM	45:00	7.00 pH	18.83 °C	510.22 µS/cm	0.09 mg/L	2.19 NTU	-13.3 mV	25.32 ft	140.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/7/2024 9:45:00 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.56 ft Total Depth: 52.56 ft Initial Depth to Water: 35.7 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 6900 ml Flow Cell Volume: 90 ml Final Flow Rate: 230 ml/min Final Draw Down: 0.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Sampled at 1015. Clear 43 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/7/2024 9:45 AM	00:00	8.01 pH	14.12 °C	629.72 µS/cm	8.57 mg/L	12.30 NTU	112.2 mV	35.86 ft	230.00 ml/min
2/7/2024 9:50 AM	05:00	7.70 pH	19.24 °C	778.17 µS/cm	0.74 mg/L	5.15 NTU	65.5 mV	35.92 ft	230.00 ml/min
2/7/2024 9:55 AM	10:00	7.74 pH	19.82 °C	778.79 µS/cm	0.41 mg/L	2.79 NTU	56.6 mV	35.97 ft	230.00 ml/min
2/7/2024 10:00 AM	15:00	7.77 pH	20.06 °C	781.78 µS/cm	0.37 mg/L	2.40 NTU	58.7 mV	35.97 ft	230.00 ml/min
2/7/2024 10:05 AM	20:00	7.81 pH	20.28 °C	782.14 µS/cm	0.19 mg/L	1.52 NTU	58.8 mV	35.97 ft	230.00 ml/min
2/7/2024 10:10 AM	25:00	7.81 pH	20.25 °C	777.62 µS/cm	0.13 mg/L	1.17 NTU	60.4 mV	35.97 ft	230.00 ml/min
2/7/2024 10:15 AM	30:00	7.81 pH	20.33 °C	777.15 µS/cm	0.11 mg/L	1.14 NTU	65.3 mV	35.97 ft	230.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 9:54:13 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWA-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.09 ft Total Depth: 53.09 ft Initial Depth to Water: 18.47 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.88 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Sampled at 1044. Clear 47 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 9:54 AM	00:00	6.70 pH	15.91 °C	84.09 µS/cm	4.36 mg/L	1.71 NTU	45.2 mV	19.53 ft	100.00 ml/min
2/6/2024 9:59 AM	05:00	6.14 pH	16.43 °C	79.30 µS/cm	4.01 mg/L	1.57 NTU	55.0 mV	20.27 ft	100.00 ml/min
2/6/2024 10:04 AM	10:00	5.91 pH	16.26 °C	75.04 µS/cm	3.59 mg/L	1.50 NTU	75.0 mV	20.63 ft	100.00 ml/min
2/6/2024 10:09 AM	15:00	5.70 pH	16.23 °C	71.07 µS/cm	3.10 mg/L	1.33 NTU	74.0 mV	20.88 ft	100.00 ml/min
2/6/2024 10:14 AM	20:00	5.61 pH	16.24 °C	68.64 µS/cm	2.90 mg/L	1.26 NTU	75.7 mV	21.05 ft	100.00 ml/min
2/6/2024 10:19 AM	25:00	5.54 pH	16.67 °C	67.68 µS/cm	2.69 mg/L	1.21 NTU	76.5 mV	21.13 ft	100.00 ml/min
2/6/2024 10:24 AM	30:00	5.49 pH	17.07 °C	66.03 µS/cm	2.52 mg/L	1.17 NTU	79.4 mV	21.20 ft	100.00 ml/min
2/6/2024 10:29 AM	35:00	5.47 pH	17.34 °C	65.19 µS/cm	2.40 mg/L	1.11 NTU	79.4 mV	21.26 ft	100.00 ml/min
2/6/2024 10:34 AM	40:00	5.44 pH	17.93 °C	65.87 µS/cm	2.11 mg/L	1.04 NTU	86.3 mV	21.31 ft	100.00 ml/min
2/6/2024 10:39 AM	45:00	5.49 pH	18.34 °C	65.64 µS/cm	1.97 mg/L	1.06 NTU	82.3 mV	21.35 ft	100.00 ml/min
2/6/2024 10:44 AM	50:00	5.52 pH	18.36 °C	65.91 µS/cm	2.00 mg/L	1.02 NTU	84.1 mV	21.35 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/6/2024 11:57:31 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWA-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 45.81 ft Total Depth: 55.81 ft Initial Depth to Water: 23.01 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 50 ft Estimated Total Volume Pumped: 9900 ml Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Sampled at 1242. Clear 51 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/6/2024 11:57 AM	00:00	6.55 pH	18.99 °C	288.58 µS/cm	6.66 mg/L	1.31 NTU	65.7 mV	23.27 ft	220.00 ml/min
2/6/2024 12:02 PM	05:00	7.87 pH	20.36 °C	286.81 µS/cm	5.27 mg/L	1.23 NTU	57.3 mV	23.33 ft	220.00 ml/min
2/6/2024 12:07 PM	10:00	8.09 pH	20.35 °C	287.22 µS/cm	5.74 mg/L	1.55 NTU	60.5 mV	23.38 ft	220.00 ml/min
2/6/2024 12:12 PM	15:00	8.19 pH	20.32 °C	286.97 µS/cm	5.47 mg/L	1.38 NTU	62.1 mV	23.41 ft	220.00 ml/min
2/6/2024 12:17 PM	20:00	8.26 pH	20.31 °C	286.09 µS/cm	5.44 mg/L	1.31 NTU	63.5 mV	23.43 ft	220.00 ml/min
2/6/2024 12:22 PM	25:00	8.22 pH	20.14 °C	288.92 µS/cm	4.75 mg/L	1.14 NTU	65.1 mV	23.43 ft	220.00 ml/min
2/6/2024 12:27 PM	30:00	8.06 pH	20.10 °C	302.47 µS/cm	3.36 mg/L	0.90 NTU	65.6 mV	23.43 ft	220.00 ml/min
2/6/2024 12:32 PM	35:00	7.92 pH	20.56 °C	314.64 µS/cm	1.53 mg/L	0.75 NTU	67.6 mV	23.43 ft	220.00 ml/min
2/6/2024 12:37 PM	40:00	7.88 pH	20.23 °C	320.67 µS/cm	0.82 mg/L	0.77 NTU	66.4 mV	23.43 ft	220.00 ml/min
2/6/2024 12:42 PM	45:00	7.86 pH	20.33 °C	327.72 µS/cm	0.43 mg/L	0.83 NTU	66.5 mV	23.43 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/7/2024 10:05:27 AM

Project: Plant McIntosh AP-1

Operator Name: J. Tracy

Location Name: MGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.9 ft Total Depth: 52.9 ft Initial Depth to Water: 28.62 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 4.37 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 7.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 883561
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Test Notes:

Sample time 1030 weather is Sunny 44

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/7/2024 10:05 AM	00:00	6.80 pH	10.08 °C	275.14 µS/cm	1.33 mg/L	0.76 NTU	52.5 mV	28.62 ft	175.00 ml/min
2/7/2024 10:10 AM	05:00	6.82 pH	14.24 °C	258.86 µS/cm	0.52 mg/L	1.12 NTU	17.9 mV	29.22 ft	175.00 ml/min
2/7/2024 10:15 AM	10:00	6.82 pH	14.80 °C	254.81 µS/cm	0.36 mg/L	0.84 NTU	12.6 mV	29.26 ft	175.00 ml/min
2/7/2024 10:20 AM	15:00	6.83 pH	14.86 °C	256.10 µS/cm	0.32 mg/L	0.81 NTU	10.2 mV	29.26 ft	175.00 ml/min
2/7/2024 10:25 AM	20:00	6.82 pH	15.26 °C	258.40 µS/cm	0.28 mg/L	0.93 NTU	9.4 mV	29.26 ft	175.00 ml/min
2/7/2024 10:30 AM	25:00	6.83 pH	15.33 °C	253.27 µS/cm	0.23 mg/L	1.23 NTU	5.3 mV	29.26 ft	175.00 ml/min

Samples

Sample ID:	Description:
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Field Instrumentation Calibration Form



Site Name: McIntosh AP

Date: 2-6-24

Calibrated By: T. Goble

Field Conditions: Clear 42°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>AquaToll</u>	<u>883546</u>
Turbidity Meter	<u>HACH 2100</u>	<u>22061000103</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	<u>Sparke</u>
pH (SU)	4.00	<u>24000044</u>	<u>5/24</u>	<u>AIR</u>
pH (SU)	7.00	<u>22290139</u>	<u>4/24</u>	<u>AIR</u>
pH (SU)	10.00	<u>22110130</u>	<u>4/24</u>	<u>AIR</u>
Specific Conductance (µS/cm)	<u>4490 ±443</u>	<u>24000044</u>	<u>5/24</u>	<u>AIR</u>
ORP (mV)	240.0	<u>24002258</u>	<u>6/24</u>	<u>AIR</u>

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	<u>New DI</u>
	10	<u>A3139</u>	<u>8/24</u>	<u>P.h.e</u>
	20	<u>A3144</u>	<u>9/24</u>	<u>P.h.e</u>
	100	<u>A3142</u>	<u>8/24</u>	<u>P.h.e</u>

Calibration					
Time Start: <u>0800</u>		Time Finish: <u>0820</u>			

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>99.05%</u>	<u>7.58</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>8.82</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.06</u>	<u>8.88</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.14</u>	<u>8.92</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	<u>4490 ±443</u>	<u>3990</u>	<u>8.47</u>	± 10% of standard	NA
ORP (mV)	<u>228</u> 240.0	<u>228.3</u>	<u>9.30</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.21</u>	± 10% of standard	EPA 2023
	10	<u>10.0</u>		
	20	<u>19.4</u>		
	100	<u>98.3</u>		

Calibration Check					
Time Start <u>1330</u>		Time Finish <u>1345</u>			

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>4.04</u>	<u>13.33</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.06</u>	<u>13.42</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.09</u>	<u>13.60</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	<u>4490 ±443</u>	<u>4516</u>	<u>13.91</u>	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.14</u>	± 10% of standard	EPA 2023
	10	<u>10.0</u>		
	20	<u>20.2</u>		
	100	<u>103</u>		

Field Instrumentation Calibration Form



Site Name: McIntosh AP/Grumman Rd

Date: 2-7-24

Calibrated By: T. Google

Field Conditions: Clear 35°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTron	88354 G
Turbidity Meter	HACH 2100C	22080500003

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	24000044	5/24	AIR
pH (SU)	7.00	22290139	4/24	AIR
pH (SU)	10.00	22110130	4/24	AIR
Specific Conductance (µS/cm)	1,413	24000044	5/24	AIR
ORP (mV)	240.0	24002238	6/24	AIR

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	New DI
	10	A3139	8/24	Pine
	20	43144	9/24	Pine
	100	43142	8/24	Pine

Calibration					
Time Start: <u>0815</u>		Time Finish: <u>0830</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.82	3.01	± 10%	EPA 2023
pH (SU)	4.00	4.00	6.72	± 0.1	GWMP
pH (SU)	7.00	7.06	7.29	± 0.1	GWMP
pH (SU)	10.00	10.14	7.53	± 0.1	GWMP
Specific Conductance (µS/cm)	4490 1413	4746	4.53	± 10% of standard	NA
ORP (mV)	225 240.0	233.3	7.74	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.23	± 10% of standard	EPA 2023
	10	10.2		
	20	20.4		
	100	101		

Calibration Check					
Time Start: <u>1200</u>		Time Finish: <u>1215</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.00	11.84	± 0.1	GWMP
pH (SU)	7.00	7.06	9.70	± 0.1	GWMP
pH (SU)	10.00	10.14	10.45	± 0.1	GWMP
Specific Conductance (µS/cm)	4490 1413	4484.4	9.06	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.18	± 10% of standard	EPA 2023
	10	10.2		
	20	19.3		
	100	96.1		

Field Instrumentation Calibration Form



Site Name: Plant McIntosh

Date: 2/6/24

Calibrated By: J. Tracy

Field Conditions: windy, sunny 50s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatic 400	883561
Turbidity Meter	Hach 2100Q	17120003707

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	DI
pH (SU)	4.00	3671090	10/25	Phe
pH (SU)	7.00	22290139	4/24	Air
pH (SU)	10.00	22110130	4/24	Air
Specific Conductance (µS/cm)	1,413	3646727	10/24	Phe
ORP (mV)	240.0	3640404	9/24	Phe

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	DI
	10	A3139	8/24	Hach
	20	A3138	8/24	Hach
	100	A3139	8/24	Hach

Calibration					
Time Start:	820	Time Finish:	845		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	90.71	7.70	± 10%	EPA 2023
pH (SU)	4.00	4.00	8.18	± 0.1	GWMP
pH (SU)	7.00	7.06	8.32	± 0.1	GWMP
pH (SU)	10.00	10.14	7.83	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410.6	8.31	± 10% of standard	NA
ORP (mV)	240.0	240.4	8.17	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.23	± 10% of standard	EPA 2023
	10	10.2		
	20	20.4		
	100	99.6		

Calibration Check					
Time Start	1120	Time Finish	1140		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.04	19.9	± 0.1	GWMP
pH (SU)	7.00	7.06	19.4	± 0.1	GWMP
pH (SU)	10.00	10.08	19.4	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1393.4	20.6	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.24	± 10% of standard	EPA 2023
	10	10.13		
	20	19.8		
	100	100		

Field Instrumentation Calibration Form



Site Name: McIntosh

Date: 2/7/24

Calibrated By: J. Tracy

Field Conditions: 17120C063767
Normal, Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaCell 400	883561
Turbidity Meter	Hach 2100Q	17120C063767

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	DI
pH (SU)	4.00	36J1090	10/25	Pine
pH (SU)	7.00	22290139	4/24	Air
pH (SU)	10.00	22110130	4/24	Air
Specific Conductance (µS/cm)	1,413	36J0727	10/24	Pine
ORP (mV)	240.0	36L0404	9/24	Pine

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	DI
	10	A3139	8/24	Hach
	20	A3138	8/24	Hach
	100	A3139	8/24	Hach

Calibration

Time Start: <u>820</u>		Time Finish: <u>845</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>99.24</u>	<u>4.66</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>6.21</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.06</u>	<u>7.78</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.14</u>	<u>6.00</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1282.3</u>	<u>5.06</u>	± 10% of standard	NA
ORP (mV)	240.0	<u>243.1</u>	<u>5.46</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.24</u>	± 10% of standard	EPA 2023
	10	<u>10.4</u>		
	20	<u>20.5</u>		
	100	<u>101</u>		

pH sensor cal. swapped

Calibration Check

Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Field Instrumentation Calibration Form



Site Name: McIntosh

Date: 2/7/24

Calibrated By: J. Tracy

Field Conditions: normal

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	714293
Turbidity Meter	Hach 2100 Q	17120063767

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	DI
pH (SU)	4.00	26C910	03/25	P.NE
pH (SU)	7.00	261304	09/24	P.NE
pH (SU)	10.00	26H903	08/24	P.NE
Specific Conductance (µS/cm)	1,413	26K696	10/24	P.NE
ORP (mV)	240.0	36H0038	5/24	P.NE

36J0727 (31)

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	DI
	10	A3139	8/24	Hach
	20	A3138	8/24	Hach
	100	A3139	8/24	Hach

Calibration	
Time Start:	Time Finish:
<u>1220</u>	<u>1245</u>

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.95	9.33	± 10%	EPA 2023
pH (SU)	4.00	4.00	10.26	± 0.1	GWMP
pH (SU)	7.00	7.06	9.71	± 0.1	GWMP
pH (SU)	10.00	10.14	9.71	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1394.5	9.80	± 10% of standard	NA
ORP (mV)	240.0	239.9	10.11	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.24	± 10% of standard	EPA 2023
	10	10.4		
	20	20.5		
	100	101		

Calibration Check	
Time Start	Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.24	± 10% of standard	EPA 2023
	10	10.2		
	20	20.3		
	100	99.8		

Well Inspection

Site Name: Plant McIntosh AP1

Date: 2/5/2024

Permit Number: 051-011D(CCR)

Field Conditions: 56 °F

	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
Well ID:				
MGWC-1	Yes	Yes	No	Yes
MGWC-2	Yes	Yes	No	Yes
MGWC-3	Yes	Yes	No	Yes
MGWC-4	Yes	Yes	No	Yes
MGWA-5	Yes	Yes	No	Yes
MGWA-6	Yes	Yes	No	Yes
MGWA-6A	Yes	Yes	No	Yes
MGWC-7	Yes	Yes	No	Yes
MGWC-8	Yes	Yes	No	Yes
MGWA-9	Yes	Yes	No	Yes
MGWA-10	Yes	Yes	No	Yes
MGWA-11	Yes	Yes	No	Yes
MGWC-12	Yes	Yes	No	Yes
PZ-13	Yes	Yes	No	Yes
PZ-14	Yes	Yes	No	Yes
PZ-15	Yes	Yes	No	Yes
PZ-16	Yes	Yes	No	Yes
PZ-17	Yes	Yes	No	Yes
PZ-18	Yes	Yes	No	Yes
MGWC-19	Yes	Yes	No	Yes
MGWC-20	Yes	Yes	No	Yes
MGWC-21	Yes	Yes	No	Yes
MGWC-22	Yes	Yes	No	Yes
MGWC-23	Yes	Yes	No	Yes
MGWA-24	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant McIntosh AP1

Date: 2/5/2024

Permit Number: 051-011D(CCR)

Field Conditions: 56 °F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
MGWC-1	Yes	Yes	Yes	Yes	Yes
MGWC-2	Yes	Yes	Yes	Yes	Yes
MGWC-3	Yes	Yes	Yes	Yes	Yes
MGWC-4	Yes	Yes	Yes	Yes	Yes
MGWA-5	Yes	Yes	Yes	Yes	Yes
MGWA-6	Yes	Yes	Yes	Yes	Yes
MGWA-6A	Yes	Yes	Yes	Yes	Yes
MGWC-7	Yes	Yes	Yes	Yes	Yes
MGWC-8	Yes	Yes	Yes	Yes	Yes
MGWA-9	Yes	Yes	Yes	Yes	Yes
MGWA-10	Yes	Yes	Yes	Yes	Yes
MGWA-11	Yes	Yes	Yes	Yes	Yes
MGWC-12	Yes	Yes	Yes	Yes	Yes
PZ-13	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
MGWC-19	Yes	Yes	Yes	Yes	Yes
MGWC-20	Yes	Yes	Yes	Yes	Yes
MGWC-21	Yes	Yes	Yes	Yes	Yes
MGWC-22	Yes	Yes	Yes	Yes	Yes
MGWC-23	Yes	Yes	Yes	Yes	Yes
MGWA-24	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant McIntosh AP1

Date: 2/5/2024

Permit Number: 051-011D(CCR)

Field Conditions: 56 °F

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MGWC-1	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-2	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-3	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-4	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-5	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-6	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-6A	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-7	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-8	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-9	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-10	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-11	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-12	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-19	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-20	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-21	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-22	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-23	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-24	Yes	Yes	Yes	Yes	Yes	Yes

APPENDIX A

*Laboratory Analytical and Field Sampling Reports
August 2024 Monitoring Event*

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/12/2024 1:51:42 PM Revision 1

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

JOB NUMBER

680-254589-1

Eurofins Savannah

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Revision 1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-254589-1	MCI-MGWA-5	Water	08/13/24 10:29	08/14/24 08:15
680-254589-2	MCI-MGWA-6A	Water	08/13/24 12:33	08/14/24 08:15
680-254589-3	MCI-MGWA-6	Water	08/13/24 15:15	08/14/24 08:15
680-254589-4	MCI-MGWA-10	Water	08/13/24 11:53	08/14/24 08:15
680-254589-5	MCI-MGWA-11	Water	08/13/24 13:47	08/14/24 08:15
680-254589-6	MCI-MGWC-1	Water	08/13/24 15:34	08/14/24 08:15
680-254589-7	MCI-AP1-EB-03	Water	08/13/24 15:50	08/14/24 08:15
680-254674-1	MCI-MGWC-12	Water	08/14/24 09:47	08/15/24 08:37
680-254674-2	MCI-MGWC-2	Water	08/14/24 11:27	08/15/24 08:37
680-254674-3	MCI-MGWC-3	Water	08/14/24 12:53	08/15/24 08:37
680-254674-4	MCI-MGWC-7	Water	08/14/24 13:31	08/15/24 08:37
680-254674-5	MCI-MGWC-8	Water	08/14/24 11:33	08/15/24 08:37
680-254674-6	MCI-AP1-FD-01	Water	08/14/24 00:00	08/15/24 08:37
680-254674-7	MCI-AP1-FD-02	Water	08/14/24 00:00	08/15/24 08:37
680-254674-8	MCI-AP1-FB-01	Water	08/14/24 10:15	08/15/24 08:37
680-254674-9	MCI-AP1-FB-02	Water	08/14/24 11:20	08/15/24 08:37
680-254674-10	MCI-AP1-EB-04	Water	08/14/24 14:10	08/15/24 08:37

Case Narrative

Client: Southern Company
Project: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Job ID: 680-254589-1

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Job Narrative 680-254589-1

Revision 1

The report being provided is a revision of the original report sent on 8/29/2024. The report (revision 1) is being revised in order to report the reanalysis of MCI-MGWA-6 for chromium due to a data quality review request by the client.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 8/14/2024 8:15 AM and 8/15/2024 8:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.4°C, 0.6°C, 1.0°C, 2.6°C and 2.9°C.

HPLC/IC

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

Metals

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

General Chemistry

Method 2540C: A lesser volume of sample was used for all samples except those noted due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWA-5 (680-254589-1), MCI-MGWA-10 (680-254589-4), EBs and FBs.

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

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-254589-1

Date Collected: 08/13/24 10:29

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		1.0	0.20	mg/L			08/27/24 14:46	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 14:46	1
Sulfate	3.3	F1	1.0	0.40	mg/L			08/27/24 14:46	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:02	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:02	1
Barium	0.038		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:02	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:02	1
Boron	0.026	J	0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:02	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:02	1
Calcium	28		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:02	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:02	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:02	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:02	1
Lithium	0.010		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 10:32	1
Molybdenum	0.00091	J	0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:02	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:02	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		10	10	mg/L			08/15/24 15:55	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.20	mg/L			08/27/24 15:16	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 15:16	1
Sulfate	4.2		1.0	0.40	mg/L			08/27/24 15:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:10	1
Arsenic	0.0076		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:10	1
Barium	0.033		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:10	1
Boron	0.033	J	0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:10	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:10	1
Calcium	110		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:10	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:10	1
Cobalt	0.00035	J	0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:10	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:10	1
Lithium	0.0022	J	0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 10:48	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:10	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:10	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	270		40	40	mg/L			08/15/24 15:55	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-254589-3

Date Collected: 08/13/24 15:15

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.20	mg/L			08/27/24 15:26	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 15:26	1
Sulfate	4.4		1.0	0.40	mg/L			08/27/24 15:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:13	1
Arsenic	0.011		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:13	1
Barium	0.029		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:13	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:13	1
Boron	0.031	J	0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:13	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:13	1
Calcium	110		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:13	1
Chromium	<0.0012		0.0020	0.0012	mg/L		09/11/24 10:34	09/11/24 17:59	1
Cobalt	0.00051	J	0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:13	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:13	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 10:52	1
Molybdenum	0.0015	J	0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:13	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:13	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	290		40	40	mg/L			08/15/24 15:55	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		1.0	0.20	mg/L			08/27/24 15:35	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 15:35	1
Sulfate	0.59	J	1.0	0.40	mg/L			08/27/24 15:35	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:16	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:16	1
Barium	0.023		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:16	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:16	1
Boron	<0.022		0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:16	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:16	1
Calcium	4.2		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:16	1
Chromium	0.0044		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:16	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:16	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:16	1
Lithium	0.0079		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 10:56	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:16	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:16	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	63		10	10	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-254589-5

Date Collected: 08/13/24 13:47

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.20	mg/L			08/27/24 15:55	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 15:55	1
Sulfate	3.3		1.0	0.40	mg/L			08/27/24 15:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:18	1
Arsenic	0.0033		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:18	1
Barium	0.11		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:18	1
Boron	0.026	J	0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:18	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:18	1
Calcium	35		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:18	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-254589-5

Date Collected: 08/13/24 13:47

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:18	1
Lithium	0.019		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 11:00	1
Molybdenum	0.00091	J	0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:18	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:18	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	200		40	40	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-254589-6

Date Collected: 08/13/24 15:34

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		5.0	1.0	mg/L			08/27/24 16:05	5
Fluoride	<0.20		0.50	0.20	mg/L			08/27/24 16:05	5
Sulfate	140		5.0	2.0	mg/L			08/27/24 16:05	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:21	1
Arsenic	0.0018		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:21	1
Barium	0.11		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:21	1
Boron	1.7		0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:21	1
Calcium	120		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:21	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:21	1
Lithium	0.011		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 11:12	1
Molybdenum	0.0011	J	0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	420		40	40	mg/L			08/16/24 12:10	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 16:15	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 16:15	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 16:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 16:29	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 16:29	1
Barium	<0.00089		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 16:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 16:29	1
Boron	<0.022		0.080	0.022	mg/L		08/14/24 10:50	08/15/24 16:29	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 16:29	1
Calcium	<0.14		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 16:29	1
Chromium	0.0031		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 16:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 16:29	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 16:29	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 11:16	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 16:29	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 16:29	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 16:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-254674-1

Date Collected: 08/14/24 09:47

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		1.0	0.20	mg/L			08/27/24 18:39	1
Fluoride	0.12		0.10	0.040	mg/L			08/27/24 18:39	1
Sulfate	8.9		1.0	0.40	mg/L			08/27/24 18:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 17:45	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 17:45	1
Barium	0.048		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 17:45	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 17:45	1
Boron	0.029 J		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 17:45	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 17:45	1
Calcium	28		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 17:45	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 17:45	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 17:45	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-254674-1

Date Collected: 08/14/24 09:47

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 17:45	1
Lithium	0.022		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 11:37	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 17:45	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 17:45	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 17:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	190		40	40	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-254674-2

Date Collected: 08/14/24 11:27

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			08/27/24 18:48	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 18:48	1
Sulfate	140		10	4.0	mg/L			08/28/24 17:21	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 21:44	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 21:44	1
Barium	0.045		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 21:44	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 21:44	1
Boron	1.7		0.32	0.088	mg/L		08/16/24 04:58	08/16/24 17:53	4
Cadmium	0.00068	J	0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 21:44	1
Calcium	110		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 21:44	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 21:44	1
Cobalt	0.00080	J	0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 21:44	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 21:44	1
Lithium	0.0065		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 11:49	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 21:44	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 21:44	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 21:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	450		40	40	mg/L			08/16/24 12:10	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-254674-3

Date Collected: 08/14/24 12:53

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.20	mg/L			08/27/24 18:58	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 18:58	1
Sulfate	80		5.0	2.0	mg/L			08/28/24 17:30	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 17:56	1
Arsenic	0.0022		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 17:56	1
Barium	0.15		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 17:56	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 17:56	1
Boron	0.42		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 17:56	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 17:56	1
Calcium	110		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 17:56	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 17:56	1
Cobalt	0.00038 J		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 17:56	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 17:56	1
Lithium	0.012		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 11:53	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 17:56	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 17:56	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 17:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	360		40	40	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-254674-4

Date Collected: 08/14/24 13:31

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.20	mg/L			08/27/24 19:08	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 19:08	1
Sulfate	200		10	4.0	mg/L			08/28/24 17:40	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 21:47	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 21:47	1
Barium	0.019		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 21:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 21:47	1
Boron	2.1		0.32	0.088	mg/L		08/16/24 04:58	08/16/24 17:59	4
Cadmium	0.00012 J		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 21:47	1
Calcium	60		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 21:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 21:47	1
Cobalt	0.0013 J		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 21:47	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-254674-4

Date Collected: 08/14/24 13:31

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 21:47	1
Lithium	0.15		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 11:57	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 21:47	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 21:47	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 21:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	350		40	40	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.20	mg/L			08/27/24 19:18	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 19:18	1
Sulfate	230		10	4.0	mg/L			08/28/24 17:50	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 21:49	1
Arsenic	0.0019		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 21:49	1
Barium	0.064		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 21:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 21:49	1
Boron	5.1		0.80	0.22	mg/L		08/16/24 04:58	08/16/24 18:01	10
Cadmium	0.0085		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 21:49	1
Calcium	130		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 21:49	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 21:49	1
Cobalt	0.00056 J		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 21:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 21:49	1
Lithium	0.0070		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 21:49	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 21:49	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 21:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00051		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	580		40	40	mg/L			08/16/24 12:10	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-254674-6

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.20	mg/L			08/27/24 21:37	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 21:37	1
Sulfate	94		10	4.0	mg/L			08/28/24 18:00	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 21:52	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 21:52	1
Barium	0.048		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 21:52	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 21:52	1
Boron	1.6		0.32	0.088	mg/L		08/16/24 04:58	08/16/24 18:10	4
Cadmium	0.00073	J	0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 21:52	1
Calcium	110		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 21:52	1
Chromium	0.0021		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 21:52	1
Cobalt	0.00087	J	0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 21:52	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 21:52	1
Lithium	0.0059		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:05	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 21:52	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 21:52	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 21:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	460		40	40	mg/L			08/16/24 12:10	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			08/27/24 21:47	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 21:47	1
Sulfate	80	F1	5.0	2.0	mg/L			08/28/24 18:10	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 18:12	1
Arsenic	0.0020		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 18:12	1
Barium	0.16		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 18:12	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 18:12	1
Boron	0.42		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 18:12	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 18:12	1
Calcium	120		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 18:12	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 18:12	1
Cobalt	0.00037	J	0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 18:12	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 18:12	1
Lithium	0.013		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:17	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 18:12	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 18:12	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 18:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	360		40	40	mg/L			08/19/24 14:33	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-254674-8

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 21:57	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 21:57	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 21:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 18:15	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 18:15	1
Barium	<0.00089		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 18:15	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 18:15	1
Boron	<0.022		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 18:15	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 18:15	1
Calcium	<0.14		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 18:15	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 18:15	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 18:15	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 18:15	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 18:15	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 18:15	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 18:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/19/24 14:33	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-254674-9

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 22:06	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 22:06	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 22:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 18:18	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 18:18	1
Barium	<0.00089		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 18:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 18:18	1
Boron	<0.022		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 18:18	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 18:18	1
Calcium	<0.14		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 18:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 18:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 18:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 18:18	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 18:18	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 18:18	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 18:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/19/24 14:33	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 22:16	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 22:16	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 22:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 18:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 18:21	1
Barium	<0.00089		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 18:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 18:21	1
Boron	<0.022		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 18:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 18:21	1
Calcium	<0.14		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 18:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 18:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 18:21	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 18:21	1
Lithium	<0.0020		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 12:29	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 18:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 18:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 18:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			08/19/24 14:33	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-853392/2
Matrix: Water
Analysis Batch: 853392

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 12:34	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 12:34	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 12:34	1

Lab Sample ID: LCS 680-853392/3
Matrix: Water
Analysis Batch: 853392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	1.98		mg/L		99	90 - 110
Sulfate	10.0	9.96		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-853392/4
Matrix: Water
Analysis Batch: 853392

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	1.97		mg/L		98	90 - 110	1	15
Sulfate	10.0	9.98		mg/L		100	90 - 110	0	15

Lab Sample ID: 680-254589-1 MS
Matrix: Water
Analysis Batch: 853392

Client Sample ID: MCI-MGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.2		10.0	15.2		mg/L		99	80 - 120
Fluoride	<0.040		2.00	1.83		mg/L		92	80 - 120
Sulfate	3.3	F1	10.0	17.8	F1	mg/L		145	80 - 120

Lab Sample ID: 680-254589-1 MSD
Matrix: Water
Analysis Batch: 853392

Client Sample ID: MCI-MGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.2		10.0	15.8		mg/L		106	80 - 120	4	15
Fluoride	<0.040		2.00	1.95		mg/L		98	80 - 120	6	15
Sulfate	3.3	F1	10.0	18.8	F1	mg/L		155	80 - 120	6	15

Lab Sample ID: 680-254593-C-3 MS
Matrix: Water
Analysis Batch: 853392

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.8	F1 F2	10.0	7.94	F1	mg/L		41	80 - 120
Fluoride	<0.040	F1 F2	2.00	0.797	F1	mg/L		40	80 - 120
Sulfate	0.83	J F1 F2	10.0	5.56	F1	mg/L		47	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-254593-C-3 MSD
Matrix: Water
Analysis Batch: 853392

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.8	F1 F2	10.0	12.4	F2	mg/L		86	80 - 120	44	15
Fluoride	<0.040	F1 F2	2.00	2.20	F2	mg/L		110	80 - 120	94	15
Sulfate	0.83	J F1 F2	10.0	15.0	F1 F2	mg/L		142	80 - 120	92	15

Lab Sample ID: MB 680-853581/35
Matrix: Water
Analysis Batch: 853581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/27/24 19:47	1
Fluoride	<0.040		0.10	0.040	mg/L			08/27/24 19:47	1
Sulfate	<0.40		1.0	0.40	mg/L			08/27/24 19:47	1

Lab Sample ID: LCS 680-853581/37
Matrix: Water
Analysis Batch: 853581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.4		mg/L		104	90 - 110
Fluoride	2.00	2.02		mg/L		101	90 - 110
Sulfate	10.0	9.94		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-853581/38
Matrix: Water
Analysis Batch: 853581

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.4		mg/L		104	90 - 110	0	15
Fluoride	2.00	2.03		mg/L		101	90 - 110	0	15
Sulfate	10.0	10.5		mg/L		105	90 - 110	5	15

Lab Sample ID: 680-254676-C-1 MS
Matrix: Water
Analysis Batch: 853581

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.9		10.0	13.2		mg/L		83	80 - 120
Fluoride	0.43	F2	2.00	2.04		mg/L		81	80 - 120
Sulfate	3.8	F1 F2	10.0	14.6		mg/L		109	80 - 120

Lab Sample ID: 680-254676-C-1 MSD
Matrix: Water
Analysis Batch: 853581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.9		10.0	14.9		mg/L		100	80 - 120	12	15
Fluoride	0.43	F2	2.00	2.41	F2	mg/L		99	80 - 120	17	15
Sulfate	3.8	F1 F2	10.0	18.4	F1 F2	mg/L		146	80 - 120	23	15

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-853666/10
Matrix: Water
Analysis Batch: 853666

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/28/24 16:47	1
Fluoride	<0.040		0.10	0.040	mg/L			08/28/24 16:47	1
Sulfate	<0.40		1.0	0.40	mg/L			08/28/24 16:47	1

Lab Sample ID: LCS 680-853666/11
Matrix: Water
Analysis Batch: 853666

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.5		mg/L		105	90 - 110
Fluoride	2.00	2.07		mg/L		103	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-853666/12
Matrix: Water
Analysis Batch: 853666

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.2		mg/L		102	90 - 110	2	15
Fluoride	2.00	2.00		mg/L		100	90 - 110	3	15
Sulfate	10.0	11.0		mg/L		110	90 - 110	8	15

Lab Sample ID: 680-254674-7 MS
Matrix: Water
Analysis Batch: 853666

Client Sample ID: MCI-AP1-FD-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11		50.0	58.6		mg/L		96	80 - 120
Fluoride	<0.20		10.0	9.42		mg/L		94	80 - 120
Sulfate	80	F1	50.0	151	F1	mg/L		142	80 - 120

Lab Sample ID: 680-254674-7 MSD
Matrix: Water
Analysis Batch: 853666

Client Sample ID: MCI-AP1-FD-02
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	63.2		mg/L		105	80 - 120	7	15
Fluoride	<0.20		10.0	9.74		mg/L		97	80 - 120	3	15
Sulfate	80	F1	50.0	156	F1	mg/L		152	80 - 120	3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-851336/1-A
Matrix: Water
Analysis Batch: 851728

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/14/24 10:50	08/15/24 15:57	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/14/24 10:50	08/15/24 15:57	1
Barium	<0.00089		0.010	0.00089	mg/L		08/14/24 10:50	08/15/24 15:57	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: MB 680-851336/1-A
Matrix: Water
Analysis Batch: 851728

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/14/24 10:50	08/15/24 15:57	1
Boron	<0.022		0.080	0.022	mg/L		08/14/24 10:50	08/15/24 15:57	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/14/24 10:50	08/15/24 15:57	1
Calcium	<0.14		0.50	0.14	mg/L		08/14/24 10:50	08/15/24 15:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/14/24 10:50	08/15/24 15:57	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/14/24 10:50	08/15/24 15:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/14/24 10:50	08/15/24 15:57	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/14/24 10:50	08/15/24 15:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/14/24 10:50	08/15/24 15:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/14/24 10:50	08/15/24 15:57	1

Lab Sample ID: MB 680-851336/1-A
Matrix: Water
Analysis Batch: 851871

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.0020		0.0050	0.0020	mg/L		08/14/24 10:50	08/16/24 10:23	1

Lab Sample ID: LCS 680-851336/2-A
Matrix: Water
Analysis Batch: 851728

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.0500	0.0513		mg/L		103	80 - 120
Arsenic	0.100	0.105		mg/L		105	80 - 120
Barium	0.100	0.103		mg/L		103	80 - 120
Beryllium	0.0500	0.0538		mg/L		108	80 - 120
Boron	0.400	0.417		mg/L		104	80 - 120
Cadmium	0.0500	0.0536		mg/L		107	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Chromium	0.100	0.105		mg/L		105	80 - 120
Cobalt	0.0500	0.0541		mg/L		108	80 - 120
Lead	0.500	0.493		mg/L		99	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.0500	0.0508		mg/L		102	80 - 120

Lab Sample ID: LCS 680-851336/2-A
Matrix: Water
Analysis Batch: 851871

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Lithium	0.500	0.487		mg/L		97	80 - 120

Lab Sample ID: 680-254589-1 MS
Matrix: Water
Analysis Batch: 851728

Client Sample ID: MCI-MGWA-5
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Antimony	<0.00034		0.0500	0.0554		mg/L		111	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: 680-254589-1 MS
Matrix: Water
Analysis Batch: 851728

Client Sample ID: MCI-MGWA-5
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.00086		0.100	0.111		mg/L		111	75 - 125
Barium	0.038		0.100	0.151		mg/L		112	75 - 125
Beryllium	<0.00020		0.0500	0.0585		mg/L		117	75 - 125
Boron	0.026	J	0.400	0.472		mg/L		112	75 - 125
Cadmium	<0.000078		0.0500	0.0570		mg/L		114	75 - 125
Calcium	28		5.00	34.5	4	mg/L		123	75 - 125
Chromium	<0.0012		0.100	0.110		mg/L		110	75 - 125
Cobalt	<0.00022		0.0500	0.0560		mg/L		112	75 - 125
Lead	<0.00021		0.500	0.530		mg/L		106	75 - 125
Molybdenum	0.00091	J	0.100	0.113		mg/L		112	75 - 125
Selenium	<0.00099		0.100	0.107		mg/L		107	75 - 125
Thallium	<0.00026		0.0500	0.0547		mg/L		109	75 - 125

Lab Sample ID: 680-254589-1 MS
Matrix: Water
Analysis Batch: 851871

Client Sample ID: MCI-MGWA-5
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.010		0.500	0.515		mg/L		101	75 - 125

Lab Sample ID: 680-254589-1 MSD
Matrix: Water
Analysis Batch: 851728

Client Sample ID: MCI-MGWA-5
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00034		0.0500	0.0528		mg/L		106	75 - 125	5	20
Arsenic	<0.00086		0.100	0.108		mg/L		108	75 - 125	3	20
Barium	0.038		0.100	0.144		mg/L		105	75 - 125	5	20
Beryllium	<0.00020		0.0500	0.0561		mg/L		112	75 - 125	4	20
Boron	0.026	J	0.400	0.458		mg/L		108	75 - 125	3	20
Cadmium	<0.000078		0.0500	0.0548		mg/L		110	75 - 125	4	20
Calcium	28		5.00	33.1	4	mg/L		94	75 - 125	4	20
Chromium	<0.0012		0.100	0.106		mg/L		106	75 - 125	3	20
Cobalt	<0.00022		0.0500	0.0543		mg/L		109	75 - 125	3	20
Lead	<0.00021		0.500	0.510		mg/L		102	75 - 125	4	20
Molybdenum	0.00091	J	0.100	0.109		mg/L		108	75 - 125	4	20
Selenium	<0.00099		0.100	0.105		mg/L		105	75 - 125	2	20
Thallium	<0.00026		0.0500	0.0528		mg/L		106	75 - 125	4	20

Lab Sample ID: 680-254589-1 MSD
Matrix: Water
Analysis Batch: 851871

Client Sample ID: MCI-MGWA-5
Prep Type: Total Recoverable
Prep Batch: 851336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lithium	0.010		0.500	0.498		mg/L		98	75 - 125	3	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: MB 680-851709/1-A
Matrix: Water
Analysis Batch: 851871

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		08/16/24 04:58	08/16/24 11:28	1

Lab Sample ID: MB 680-851709/1-A
Matrix: Water
Analysis Batch: 851998

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		08/16/24 04:58	08/16/24 17:39	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		08/16/24 04:58	08/16/24 17:39	1
Barium	<0.00089		0.010	0.00089	mg/L		08/16/24 04:58	08/16/24 17:39	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/16/24 04:58	08/16/24 17:39	1
Boron	<0.022		0.080	0.022	mg/L		08/16/24 04:58	08/16/24 17:39	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		08/16/24 04:58	08/16/24 17:39	1
Calcium	<0.14		0.50	0.14	mg/L		08/16/24 04:58	08/16/24 17:39	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/16/24 04:58	08/16/24 17:39	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/16/24 04:58	08/16/24 17:39	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/16/24 04:58	08/16/24 17:39	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		08/16/24 04:58	08/16/24 17:39	1
Selenium	<0.00099		0.0050	0.00099	mg/L		08/16/24 04:58	08/16/24 17:39	1
Thallium	<0.00026		0.0010	0.00026	mg/L		08/16/24 04:58	08/16/24 17:39	1

Lab Sample ID: LCS 680-851709/2-A
Matrix: Water
Analysis Batch: 851871

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.522		mg/L		104	80 - 120

Lab Sample ID: LCS 680-851709/2-A
Matrix: Water
Analysis Batch: 851998

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0485		mg/L		97	80 - 120
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.100	0.0986		mg/L		99	80 - 120
Beryllium	0.0500	0.0505		mg/L		101	80 - 120
Boron	0.400	0.384		mg/L		96	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	5.00	5.04		mg/L		101	80 - 120
Chromium	0.100	0.102		mg/L		102	80 - 120
Cobalt	0.0500	0.0527		mg/L		105	80 - 120
Lead	0.500	0.473		mg/L		95	80 - 120
Molybdenum	0.100	0.100		mg/L		100	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.0500	0.0490		mg/L		98	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: 680-254674-1 MS
Matrix: Water
Analysis Batch: 851871

Client Sample ID: MCI-MGWC-12
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.022		0.500	0.532		mg/L		102	75 - 125

Lab Sample ID: 680-254674-1 MS
Matrix: Water
Analysis Batch: 851998

Client Sample ID: MCI-MGWC-12
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0523		mg/L		105	75 - 125
Arsenic	<0.00086		0.100	0.107		mg/L		107	75 - 125
Barium	0.048		0.100	0.154		mg/L		106	75 - 125
Beryllium	<0.00020		0.0500	0.0555		mg/L		111	75 - 125
Boron	0.029	J	0.400	0.431		mg/L		101	75 - 125
Cadmium	<0.000078		0.0500	0.0543		mg/L		109	75 - 125
Calcium	28		5.00	33.0	4	mg/L		96	75 - 125
Chromium	<0.0012		0.100	0.109		mg/L		109	75 - 125
Cobalt	<0.00022		0.0500	0.0545		mg/L		109	75 - 125
Lead	<0.00021		0.500	0.500		mg/L		100	75 - 125
Molybdenum	<0.00086		0.100	0.106		mg/L		106	75 - 125
Selenium	<0.00099		0.100	0.104		mg/L		104	75 - 125
Thallium	<0.00026		0.0500	0.0518		mg/L		104	75 - 125

Lab Sample ID: 680-254674-1 MSD
Matrix: Water
Analysis Batch: 851871

Client Sample ID: MCI-MGWC-12
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.022		0.500	0.567		mg/L		109	75 - 125	6	20

Lab Sample ID: 680-254674-1 MSD
Matrix: Water
Analysis Batch: 851998

Client Sample ID: MCI-MGWC-12
Prep Type: Total Recoverable
Prep Batch: 851709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0533		mg/L		107	75 - 125	2	20
Arsenic	<0.00086		0.100	0.110		mg/L		110	75 - 125	3	20
Barium	0.048		0.100	0.158		mg/L		110	75 - 125	3	20
Beryllium	<0.00020		0.0500	0.0572		mg/L		114	75 - 125	3	20
Boron	0.029	J	0.400	0.440		mg/L		103	75 - 125	2	20
Cadmium	<0.000078		0.0500	0.0559		mg/L		112	75 - 125	3	20
Calcium	28		5.00	34.2	4	mg/L		120	75 - 125	4	20
Chromium	<0.0012		0.100	0.109		mg/L		109	75 - 125	0	20
Cobalt	<0.00022		0.0500	0.0558		mg/L		112	75 - 125	2	20
Lead	<0.00021		0.500	0.512		mg/L		102	75 - 125	2	20
Molybdenum	<0.00086		0.100	0.109		mg/L		109	75 - 125	3	20
Selenium	<0.00099		0.100	0.106		mg/L		106	75 - 125	2	20
Thallium	<0.00026		0.0500	0.0530		mg/L		106	75 - 125	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: MB 680-855328/1-A
Matrix: Water
Analysis Batch: 855479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 855328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0012		0.0020	0.0012	mg/L		09/11/24 10:28	09/11/24 17:35	1

Lab Sample ID: LCS 680-855328/2-A
Matrix: Water
Analysis Batch: 855479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 855328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: 680-255695-F-22-C MS
Matrix: Water
Analysis Batch: 855479

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 855328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	<0.0012		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 680-255695-F-22-D MSD
Matrix: Water
Analysis Batch: 855479

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 855328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	<0.0012		0.100	0.102		mg/L		102	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-851371/1-A
Matrix: Water
Analysis Batch: 851469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 851371

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/14/24 12:11	08/14/24 17:02	1

Lab Sample ID: LCS 680-851371/2-A
Matrix: Water
Analysis Batch: 851469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 851371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

Lab Sample ID: 680-254564-H-1-E MSD
Matrix: Water
Analysis Batch: 851469

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 851371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00100		mg/L		100	80 - 120	1	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

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

Lab Sample ID: 680-254564-I-1-D MS
Matrix: Water
Analysis Batch: 851469

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 851371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.000988		mg/L		99	80 - 120

Lab Sample ID: MB 680-851783/1-A
Matrix: Water
Analysis Batch: 851912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 851783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		08/16/24 09:49	08/16/24 14:43	1

Lab Sample ID: LCS 680-851783/2-A
Matrix: Water
Analysis Batch: 851912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 851783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00273		mg/L		109	80 - 120

Lab Sample ID: 680-254630-S-1-B MS
Matrix: Water
Analysis Batch: 851912

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 851783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.00105		mg/L		105	80 - 120

Lab Sample ID: 680-254630-S-1-C MSD
Matrix: Water
Analysis Batch: 851912

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 851783

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.000080		0.00100	0.00103		mg/L		103	80 - 120	2	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-851686/1
Matrix: Water
Analysis Batch: 851686

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			08/15/24 15:55	1

Lab Sample ID: LCS 680-851686/2
Matrix: Water
Analysis Batch: 851686

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	2440	2400		mg/L		98	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCSD 680-851686/3
Matrix: Water
Analysis Batch: 851686

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	0	25

Lab Sample ID: 680-254500-A-18 DU
Matrix: Water
Analysis Batch: 851686

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	330		336		mg/L		0.6	5

Lab Sample ID: MB 680-851847/1
Matrix: Water
Analysis Batch: 851847

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			08/16/24 12:10	1

Lab Sample ID: LCS 680-851847/2
Matrix: Water
Analysis Batch: 851847

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	2440	2420		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-851847/3
Matrix: Water
Analysis Batch: 851847

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2380		mg/L		98	80 - 120	2	25

Lab Sample ID: 680-254589-5 DU
Matrix: Water
Analysis Batch: 851847

Client Sample ID: MCI-MGWA-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		190		mg/L		3	5

Lab Sample ID: 680-254674-5 DU
Matrix: Water
Analysis Batch: 851847

Client Sample ID: MCI-MGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		586		mg/L		0.7	5

Lab Sample ID: MB 680-852128/1
Matrix: Water
Analysis Batch: 852128

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			08/19/24 14:33	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LCS 680-852128/2
Matrix: Water
Analysis Batch: 852128

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	2440	2430		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-852128/3
Matrix: Water
Analysis Batch: 852128

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	2	25

Lab Sample ID: 680-254674-7 DU
Matrix: Water
Analysis Batch: 852128

Client Sample ID: MCI-AP1-FD-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	360		360		mg/L		0.6	5

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

HPLC/IC

Analysis Batch: 853392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-254589-2	MCI-MGWA-6A	Total/NA	Water	300.0-1993 R2.1	
680-254589-3	MCI-MGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-254589-4	MCI-MGWA-10	Total/NA	Water	300.0-1993 R2.1	
680-254589-5	MCI-MGWA-11	Total/NA	Water	300.0-1993 R2.1	
680-254589-6	MCI-MGWC-1	Total/NA	Water	300.0-1993 R2.1	
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	300.0-1993 R2.1	
680-254674-1	MCI-MGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-254674-2	MCI-MGWC-2	Total/NA	Water	300.0-1993 R2.1	
680-254674-3	MCI-MGWC-3	Total/NA	Water	300.0-1993 R2.1	
680-254674-4	MCI-MGWC-7	Total/NA	Water	300.0-1993 R2.1	
680-254674-5	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
MB 680-853392/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-853392/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-853392/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-254589-1 MS	MCI-MGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-254589-1 MSD	MCI-MGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-254593-C-3 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-254593-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 853581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	300.0-1993 R2.1	
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	300.0-1993 R2.1	
MB 680-853581/35	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-853581/37	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-853581/38	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-254676-C-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-254676-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 853666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-2	MCI-MGWC-2	Total/NA	Water	300.0-1993 R2.1	
680-254674-3	MCI-MGWC-3	Total/NA	Water	300.0-1993 R2.1	
680-254674-4	MCI-MGWC-7	Total/NA	Water	300.0-1993 R2.1	
680-254674-5	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
MB 680-853666/10	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-853666/11	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-853666/12	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-254674-7 MS	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
680-254674-7 MSD	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Metals

Prep Batch: 851336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-254589-2	MCI-MGWA-6A	Total Recoverable	Water	3005A	
680-254589-3	MCI-MGWA-6	Total Recoverable	Water	3005A	
680-254589-4	MCI-MGWA-10	Total Recoverable	Water	3005A	
680-254589-5	MCI-MGWA-11	Total Recoverable	Water	3005A	
680-254589-6	MCI-MGWC-1	Total Recoverable	Water	3005A	
680-254589-7	MCI-AP1-EB-03	Total Recoverable	Water	3005A	
MB 680-851336/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-851336/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-254589-1 MS	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-254589-1 MSD	MCI-MGWA-5	Total Recoverable	Water	3005A	

Prep Batch: 851371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	7470A	
680-254589-2	MCI-MGWA-6A	Total/NA	Water	7470A	
680-254589-3	MCI-MGWA-6	Total/NA	Water	7470A	
680-254589-4	MCI-MGWA-10	Total/NA	Water	7470A	
680-254589-5	MCI-MGWA-11	Total/NA	Water	7470A	
680-254589-6	MCI-MGWC-1	Total/NA	Water	7470A	
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	7470A	
MB 680-851371/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-851371/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-254564-H-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
680-254564-I-1-D MS	Matrix Spike	Total/NA	Water	7470A	

Analysis Batch: 851469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	7470A	851371
680-254589-2	MCI-MGWA-6A	Total/NA	Water	7470A	851371
680-254589-3	MCI-MGWA-6	Total/NA	Water	7470A	851371
680-254589-4	MCI-MGWA-10	Total/NA	Water	7470A	851371
680-254589-5	MCI-MGWA-11	Total/NA	Water	7470A	851371
680-254589-6	MCI-MGWC-1	Total/NA	Water	7470A	851371
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	7470A	851371
MB 680-851371/1-A	Method Blank	Total/NA	Water	7470A	851371
LCS 680-851371/2-A	Lab Control Sample	Total/NA	Water	7470A	851371
680-254564-H-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	851371
680-254564-I-1-D MS	Matrix Spike	Total/NA	Water	7470A	851371

Prep Batch: 851709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total Recoverable	Water	3005A	
680-254674-2	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-254674-3	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-254674-4	MCI-MGWC-7	Total Recoverable	Water	3005A	
680-254674-5	MCI-MGWC-8	Total Recoverable	Water	3005A	
680-254674-6	MCI-AP1-FD-01	Total Recoverable	Water	3005A	
680-254674-7	MCI-AP1-FD-02	Total Recoverable	Water	3005A	
680-254674-8	MCI-AP1-FB-01	Total Recoverable	Water	3005A	
680-254674-9	MCI-AP1-FB-02	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Metals (Continued)

Prep Batch: 851709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-10	MCI-AP1-EB-04	Total Recoverable	Water	3005A	
MB 680-851709/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-851709/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-254674-1 MS	MCI-MGWC-12	Total Recoverable	Water	3005A	
680-254674-1 MSD	MCI-MGWC-12	Total Recoverable	Water	3005A	

Analysis Batch: 851728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total Recoverable	Water	6020B	851336
680-254589-2	MCI-MGWA-6A	Total Recoverable	Water	6020B	851336
680-254589-3	MCI-MGWA-6	Total Recoverable	Water	6020B	851336
680-254589-4	MCI-MGWA-10	Total Recoverable	Water	6020B	851336
680-254589-5	MCI-MGWA-11	Total Recoverable	Water	6020B	851336
680-254589-6	MCI-MGWC-1	Total Recoverable	Water	6020B	851336
680-254589-7	MCI-AP1-EB-03	Total Recoverable	Water	6020B	851336
MB 680-851336/1-A	Method Blank	Total Recoverable	Water	6020B	851336
LCS 680-851336/2-A	Lab Control Sample	Total Recoverable	Water	6020B	851336
680-254589-1 MS	MCI-MGWA-5	Total Recoverable	Water	6020B	851336
680-254589-1 MSD	MCI-MGWA-5	Total Recoverable	Water	6020B	851336

Prep Batch: 851783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total/NA	Water	7470A	
680-254674-2	MCI-MGWC-2	Total/NA	Water	7470A	
680-254674-3	MCI-MGWC-3	Total/NA	Water	7470A	
680-254674-4	MCI-MGWC-7	Total/NA	Water	7470A	
680-254674-5	MCI-MGWC-8	Total/NA	Water	7470A	
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	7470A	
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	7470A	
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	7470A	
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	7470A	
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	7470A	
MB 680-851783/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-851783/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-254630-S-1-B MS	Matrix Spike	Total/NA	Water	7470A	
680-254630-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 851871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total Recoverable	Water	6020B	851336
680-254589-2	MCI-MGWA-6A	Total Recoverable	Water	6020B	851336
680-254589-3	MCI-MGWA-6	Total Recoverable	Water	6020B	851336
680-254589-4	MCI-MGWA-10	Total Recoverable	Water	6020B	851336
680-254589-5	MCI-MGWA-11	Total Recoverable	Water	6020B	851336
680-254589-6	MCI-MGWC-1	Total Recoverable	Water	6020B	851336
680-254589-7	MCI-AP1-EB-03	Total Recoverable	Water	6020B	851336
680-254674-1	MCI-MGWC-12	Total Recoverable	Water	6020B	851709
680-254674-2	MCI-MGWC-2	Total Recoverable	Water	6020B	851709
680-254674-3	MCI-MGWC-3	Total Recoverable	Water	6020B	851709
680-254674-4	MCI-MGWC-7	Total Recoverable	Water	6020B	851709
680-254674-5	MCI-MGWC-8	Total Recoverable	Water	6020B	851709

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Metals (Continued)

Analysis Batch: 851871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-6	MCI-AP1-FD-01	Total Recoverable	Water	6020B	851709
680-254674-7	MCI-AP1-FD-02	Total Recoverable	Water	6020B	851709
680-254674-8	MCI-AP1-FB-01	Total Recoverable	Water	6020B	851709
680-254674-9	MCI-AP1-FB-02	Total Recoverable	Water	6020B	851709
680-254674-10	MCI-AP1-EB-04	Total Recoverable	Water	6020B	851709
MB 680-851336/1-A	Method Blank	Total Recoverable	Water	6020B	851336
MB 680-851709/1-A	Method Blank	Total Recoverable	Water	6020B	851709
LCS 680-851336/2-A	Lab Control Sample	Total Recoverable	Water	6020B	851336
LCS 680-851709/2-A	Lab Control Sample	Total Recoverable	Water	6020B	851709
680-254589-1 MS	MCI-MGWA-5	Total Recoverable	Water	6020B	851336
680-254589-1 MSD	MCI-MGWA-5	Total Recoverable	Water	6020B	851336
680-254674-1 MS	MCI-MGWC-12	Total Recoverable	Water	6020B	851709
680-254674-1 MSD	MCI-MGWC-12	Total Recoverable	Water	6020B	851709

Analysis Batch: 851912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total/NA	Water	7470A	851783
680-254674-2	MCI-MGWC-2	Total/NA	Water	7470A	851783
680-254674-3	MCI-MGWC-3	Total/NA	Water	7470A	851783
680-254674-4	MCI-MGWC-7	Total/NA	Water	7470A	851783
680-254674-5	MCI-MGWC-8	Total/NA	Water	7470A	851783
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	7470A	851783
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	7470A	851783
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	7470A	851783
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	7470A	851783
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	7470A	851783
MB 680-851783/1-A	Method Blank	Total/NA	Water	7470A	851783
LCS 680-851783/2-A	Lab Control Sample	Total/NA	Water	7470A	851783
680-254630-S-1-B MS	Matrix Spike	Total/NA	Water	7470A	851783
680-254630-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	851783

Analysis Batch: 851998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total Recoverable	Water	6020B	851709
680-254674-2	MCI-MGWC-2	Total Recoverable	Water	6020B	851709
680-254674-2	MCI-MGWC-2	Total Recoverable	Water	6020B	851709
680-254674-3	MCI-MGWC-3	Total Recoverable	Water	6020B	851709
680-254674-4	MCI-MGWC-7	Total Recoverable	Water	6020B	851709
680-254674-4	MCI-MGWC-7	Total Recoverable	Water	6020B	851709
680-254674-5	MCI-MGWC-8	Total Recoverable	Water	6020B	851709
680-254674-5	MCI-MGWC-8	Total Recoverable	Water	6020B	851709
680-254674-6	MCI-AP1-FD-01	Total Recoverable	Water	6020B	851709
680-254674-6	MCI-AP1-FD-01	Total Recoverable	Water	6020B	851709
680-254674-7	MCI-AP1-FD-02	Total Recoverable	Water	6020B	851709
680-254674-8	MCI-AP1-FB-01	Total Recoverable	Water	6020B	851709
680-254674-9	MCI-AP1-FB-02	Total Recoverable	Water	6020B	851709
680-254674-10	MCI-AP1-EB-04	Total Recoverable	Water	6020B	851709
MB 680-851709/1-A	Method Blank	Total Recoverable	Water	6020B	851709
LCS 680-851709/2-A	Lab Control Sample	Total Recoverable	Water	6020B	851709
680-254674-1 MS	MCI-MGWC-12	Total Recoverable	Water	6020B	851709
680-254674-1 MSD	MCI-MGWC-12	Total Recoverable	Water	6020B	851709

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Metals

Prep Batch: 855328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-3	MCI-MGWA-6	Total Recoverable	Water	3005A	
MB 680-855328/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-855328/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-255695-F-22-C MS	Matrix Spike	Dissolved	Water	3005A	
680-255695-F-22-D MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 855479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-3	MCI-MGWA-6	Total Recoverable	Water	6020B	855328
MB 680-855328/1-A	Method Blank	Total Recoverable	Water	6020B	855328
LCS 680-855328/2-A	Lab Control Sample	Total Recoverable	Water	6020B	855328
680-255695-F-22-C MS	Matrix Spike	Dissolved	Water	6020B	855328
680-255695-F-22-D MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	855328

General Chemistry

Analysis Batch: 851686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	2540C-2011	
680-254589-2	MCI-MGWA-6A	Total/NA	Water	2540C-2011	
680-254589-3	MCI-MGWA-6	Total/NA	Water	2540C-2011	
MB 680-851686/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-851686/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-851686/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-254500-A-18 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 851847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-4	MCI-MGWA-10	Total/NA	Water	2540C-2011	
680-254589-5	MCI-MGWA-11	Total/NA	Water	2540C-2011	
680-254589-6	MCI-MGWC-1	Total/NA	Water	2540C-2011	
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	2540C-2011	
680-254674-1	MCI-MGWC-12	Total/NA	Water	2540C-2011	
680-254674-2	MCI-MGWC-2	Total/NA	Water	2540C-2011	
680-254674-3	MCI-MGWC-3	Total/NA	Water	2540C-2011	
680-254674-4	MCI-MGWC-7	Total/NA	Water	2540C-2011	
680-254674-5	MCI-MGWC-8	Total/NA	Water	2540C-2011	
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	2540C-2011	
MB 680-851847/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-851847/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-851847/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-254589-5 DU	MCI-MGWA-11	Total/NA	Water	2540C-2011	
680-254674-5 DU	MCI-MGWC-8	Total/NA	Water	2540C-2011	

Analysis Batch: 852128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	2540C-2011	
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	2540C-2011	
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	2540C-2011	
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	2540C-2011	
MB 680-852128/1	Method Blank	Total/NA	Water	2540C-2011	

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QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

General Chemistry (Continued)

Analysis Batch: 852128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-852128/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-852128/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-254674-7 DU	MCI-AP1-FD-02	Total/NA	Water	2540C-2011	

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-254589-1

Date Collected: 08/13/24 10:29

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 14:46	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 10:32	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:02	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:35	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	851686	08/15/24 15:55	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 15:16	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 10:48	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:10	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:46	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851686	08/15/24 15:55	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-254589-3

Date Collected: 08/13/24 15:15

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 15:26	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 10:52	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:13	BWR	EET SAV
Instrument ID: ICPMSD										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-254589-3

Date Collected: 08/13/24 15:15

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	855328	09/11/24 10:34	RR	EET SAV
Total Recoverable	Analysis	6020B		1			855479	09/11/24 17:59	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:48	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851686	08/15/24 15:55	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 15:35	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 10:56	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:16	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:41	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-254589-5

Date Collected: 08/13/24 13:47

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 15:55	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:00	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:18	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:44	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-254589-6

Date Collected: 08/13/24 15:34

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	853392	08/27/24 16:05	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:12	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:37	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 16:15	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:16	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851336	08/14/24 10:50	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851728	08/15/24 16:29	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851371	08/14/24 12:11	MG	EET SAV
Total/NA	Analysis	7470A		1			851469	08/14/24 17:39	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-254674-1

Date Collected: 08/14/24 09:47

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 18:39	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:37	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 17:45	BWR	EET SAV
Instrument ID: ICPMSD										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-12
Date Collected: 08/14/24 09:47
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:24	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-2
Date Collected: 08/14/24 11:27
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-2
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	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 18:48	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	853666	08/28/24 17:21	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		4			851998	08/16/24 17:53	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 21:44	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:16	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-3
Date Collected: 08/14/24 12:53
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-3
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	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 18:58	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	853666	08/28/24 17:30	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:53	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 17:56	BWR	EET SAV
Instrument ID: ICPMSD										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-254674-3

Date Collected: 08/14/24 12:53

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 14:58	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-254674-4

Date Collected: 08/14/24 13:31

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 19:08	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	853666	08/28/24 17:40	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 11:57	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		4			851998	08/16/24 17:59	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 21:47	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:05	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853392	08/27/24 19:18	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	853666	08/28/24 17:50	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:01	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		10			851998	08/16/24 18:01	BWR	EET SAV
Instrument ID: ICPMSD										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 21:49	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:11	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-254674-6

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853581	08/27/24 21:37	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	853666	08/28/24 18:00	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:05	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		4			851998	08/16/24 18:10	BWR	EET SAV
Instrument ID: ICPMSD										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 21:52	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:00	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	851847	08/16/24 12:10	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	853581	08/27/24 21:47	KMB	EET SAV
Instrument ID: CICP										
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	853666	08/28/24 18:10	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:17	BWR	EET SAV
Instrument ID: ICPMSC										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-FD-02
Date Collected: 08/14/24 00:00
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 18:12	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:02	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	852128	08/19/24 14:33	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-01
Date Collected: 08/14/24 10:15
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-8
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	300.0-1993 R2.1		1	5 mL	5 mL	853581	08/27/24 21:57	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 18:15	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:13	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852128	08/19/24 14:33	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-02
Date Collected: 08/14/24 11:20
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-9
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	300.0-1993 R2.1		1	5 mL	5 mL	853581	08/27/24 22:06	KMB	EET SAV
Instrument ID: CICIP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:25	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 18:18	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:07	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852128	08/19/24 14:33	PG	EET SAV
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Client Sample ID: MCI-AP1-EB-04
Date Collected: 08/14/24 14:10
Date Received: 08/15/24 08:37

Lab Sample ID: 680-254674-10
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	300.0-1993 R2.1		1	5 mL	5 mL	853581	08/27/24 22:16	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851871	08/16/24 12:29	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	851709	08/16/24 04:58	RR	EET SAV
Total Recoverable	Analysis	6020B		1			851998	08/16/24 18:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Prep	7470A			50 mL	50 mL	851783	08/16/24 09:49	MG	EET SAV
Total/NA	Analysis	7470A		1			851912	08/16/24 15:09	BJB	EET SAV
Instrument ID: QuickTrace3										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852128	08/19/24 14:33	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

1

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Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information		Sampler: ACC <i>T. Goble/R. David</i>		Lab PM: David Fuller / Phone: 770-344-8986		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofinsus.com				Page: 1 of 1			
Company: GA Power		Analysis Requested						Job #:			
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No) Yes (Y) / No (N) / Pass (P) / Fail (F) 6020B - App. III & IV Metals (B, Ca; Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti) 7470A - App IV Mercury 300_ORGFM_28D - Chloride Fluoride Sulfate 2540C - Total Dissolved Solids (TDS) 9315_Ra226 - Radium-226 9320_Ra228 - Radium-228 Ra226Ra228_GFPC - Combined Radium-226 & Radium-228		Preservation Codes:		Loc: 680 254589			
City: Atlanta		TAT Requested (days):				Total Number of containers:				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: GA, 30308		Lab Project #: 68027747				Task Code: MCI-CCR-ASSMT-2024S2				Special Instructions/Note: Full APP III + APP IV	
Phone: 404-506-7116(Tel)		PO #: GPC82130-0002 / PO Line #5									
Email: SCS Contacts / ACC Contacts		Project #:									
Project Name: Plant McIntosh - Ash Pond 1		SSOW#:									
Site: Georgia											
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Preservation Code:					
MCI- MGWA-5	08/13/24	1029	G	WG	N	N	✓	✓	✓		
MCI- MGWA-6A	08/13/24	1233	G	WG	N	N	✓	✓	✓		
MCI- MGWA-6	08/13/24	1515	G	WG	N	N	✓	✓	✓		
MCI- MGWA-10	08/13/24	1153	G	WG	N	N	✓	✓	✓		
MCI- MGWA-11	08/13/24	1347	G	WG	N	N	✓	✓	✓		
MCI- MGWC-1	08/13/24	1534	G	WG	N	N	✓	✓	✓		
MCI- API-FB-03	08/13/24	1550	G	WG	N	N	✓	✓	✓		
MCI-			G		N	N					
MCI-			G		N	N					
MCI-			G		N	N					
MCI-			G		N	N					



Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:
Relinquished by: <i>[Signature]</i>	Date/Time: 8-14-24/0815	Company: ACC	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.6 1.0/1.0 CDO	

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

Client Information Client Contact: SCS Contacts		Sampler: <i>T. Goble / H. Auld</i> ACC Phone: <i>770-594-5998</i>		Lab PM: David Fuller / Phone: 770-344-8986 E-Mail: <i>david.fuller@et.eurofinsus.com</i>		Carrier Tracking No(s):		COC No:	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Phone: 404-506-7116(Tel)	
Email: SCS Contacts / ACC Contacts		Project Name: Plant McIntosh - Ash Pond 1		Site: Georgia		Analysis Requested 6020B - App. III & IV Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti) 7470A - App IV Mercury 300_ORGFM_28D - Chloride Fluoride Sulfate 2540C - Total Dissolved Solids (TDS) 9315_Ra226 - Radium-226 9320_Ra228 - Radium-228 Ra226Ra228_GFFC - Combined Radium-226 & Radium-228		Job #:	
Due Date Requested:		TAT Requested (days):		Lab Project #: 68027747		PO #: GPC82130-0002 / PO Line #5		Project #:	
SSOW#:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		Other:		Task Code: MCI-CCR-ASSMT-2024S2		Special Instructions/Note: Full APP III + APP IV	
Sample Identification		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)	
Preservation Code:		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)	
MCI- MGWC-12		08/14/24		0947		G WG		N N	
MCI- MGWC-2		08/14/24		1127		G WG		N N	
MCI- MGWC-3		08/14/24		1253		G WG		N N	
MCI- MGWC-7		08/14/24		1331		G WG		N N	
MCI- MGWC-8		08/14/24		1133		G WG		N N	
MCI- API-FD-01		08/14/24		—		G WG		N N	
MCI- API-FD-02		08/14/24		—		G WG		N N	
MCI- API-FB-01		08/14/24		1015		G WQ		N N	
MCI- API-FB-02		09/14/24		1120		G WQ		N N	
MCI- API-EB-04		08/14/24		1410		G WQ		N N	
MCI-						G		N	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>8-15-24/0837</i>		Company: <i>ACC</i>		Received by: <i>[Signature]</i>		Date/Time: <i>8/15/24 0837</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by: <i>2.9/2.9 0.6/0.6 0.4/0.4</i>		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2.1/2.1 1.5/1.5 1.9/1.9</i>					

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-1

Login Number: 254589

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-1

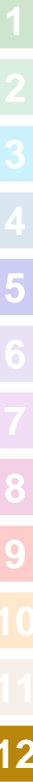
Login Number: 254674

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/23/2024 2:47:54 PM

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

JOB NUMBER

680-254589-2

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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9/23/2024 2:47:54 PM

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-254589-1	MCI-MGWA-5	Water	08/13/24 10:29	08/14/24 08:15
680-254589-2	MCI-MGWA-6A	Water	08/13/24 12:33	08/14/24 08:15
680-254589-3	MCI-MGWA-6	Water	08/13/24 15:15	08/14/24 08:15
680-254589-4	MCI-MGWA-10	Water	08/13/24 11:53	08/14/24 08:15
680-254589-5	MCI-MGWA-11	Water	08/13/24 13:47	08/14/24 08:15
680-254589-6	MCI-MGWC-1	Water	08/13/24 15:34	08/14/24 08:15
680-254589-7	MCI-AP1-EB-03	Water	08/13/24 15:50	08/14/24 08:15
680-254674-1	MCI-MGWC-12	Water	08/14/24 09:47	08/15/24 08:37
680-254674-2	MCI-MGWC-2	Water	08/14/24 11:27	08/15/24 08:37
680-254674-3	MCI-MGWC-3	Water	08/14/24 12:53	08/15/24 08:37
680-254674-4	MCI-MGWC-7	Water	08/14/24 13:31	08/15/24 08:37
680-254674-5	MCI-MGWC-8	Water	08/14/24 11:33	08/15/24 08:37
680-254674-6	MCI-AP1-FD-01	Water	08/14/24 00:00	08/15/24 08:37
680-254674-7	MCI-AP1-FD-02	Water	08/14/24 00:00	08/15/24 08:37
680-254674-8	MCI-AP1-FB-01	Water	08/14/24 10:15	08/15/24 08:37
680-254674-9	MCI-AP1-FB-02	Water	08/14/24 11:20	08/15/24 08:37
680-254674-10	MCI-AP1-EB-04	Water	08/14/24 14:10	08/15/24 08:37



Case Narrative

Client: Southern Company
Project: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Job ID: 680-254589-2

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Job Narrative 680-254589-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 8/14/2024 8:15 AM and 8/15/2024 8:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.4°C, 0.6°C, 1.0°C, 2.6°C and 2.9°C.

Gas Flow Proportional Counter

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

Rad

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

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Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-254589-1

Date Collected: 08/13/24 10:29

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182	U	0.166	0.166	1.00	0.255	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.335	0.336	1.00	0.559	pCi/L	08/23/24 08:47	09/17/24 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					08/23/24 08:47	09/17/24 12:13	1
Y Carrier	75.9		30 - 110					08/23/24 08:47	09/17/24 12:13	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.441	U	0.374	0.375	5.00	0.559	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.670		0.243	0.250	1.00	0.252	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.218	U	0.359	0.359	1.00	0.612	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	78.1		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.888		0.434	0.437	5.00	0.612	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-254589-3

Date Collected: 08/13/24 15:15

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.577		0.222	0.228	1.00	0.229	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.132	U	0.282	0.282	1.00	0.496	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	81.1		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.709		0.359	0.363	5.00	0.496	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.495		0.213	0.218	1.00	0.240	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612	U	0.413	0.417	1.00	0.622	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	74.4		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.11		0.465	0.471	5.00	0.622	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-254589-5

Date Collected: 08/13/24 13:47

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.757		0.255	0.264	1.00	0.255	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.332	U	0.362	0.364	1.00	0.591	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	79.3		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.09		0.443	0.450	5.00	0.591	pCi/L		09/23/24 11:33	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-254589-6

Date Collected: 08/13/24 15:34

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.21		0.315	0.333	1.00	0.262	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.930		0.425	0.433	1.00	0.567	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	82.2		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.14		0.529	0.546	5.00	0.567	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.157	U	0.176	0.176	1.00	0.283	pCi/L	08/23/24 08:43	09/18/24 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					08/23/24 08:43	09/18/24 08:25	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.263	U	0.399	0.400	1.00	0.676	pCi/L	08/23/24 08:47	09/17/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					08/23/24 08:47	09/17/24 12:16	1
Y Carrier	81.9		30 - 110					08/23/24 08:47	09/17/24 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.420	U	0.436	0.437	5.00	0.676	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-254674-1

Date Collected: 08/14/24 09:47

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0974	U	0.171	0.171	1.00	0.301	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.134	U	0.288	0.288	1.00	0.505	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	85.2		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.231	U	0.335	0.335	5.00	0.505	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-254674-2

Date Collected: 08/14/24 11:27

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.127	U	0.164	0.164	1.00	0.273	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-254674-2

Date Collected: 08/14/24 11:27

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.250	U	0.337	0.338	1.00	0.716	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	65.0		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.123	U	0.375	0.376	5.00	0.716	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-254674-3

Date Collected: 08/14/24 12:53

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.927		0.315	0.326	1.00	0.310	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.211	U	0.404	0.405	1.00	0.697	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	79.3		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.14		0.512	0.520	5.00	0.697	pCi/L		09/23/24 11:33	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-254674-4

Date Collected: 08/14/24 13:31

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.18		0.358	0.373	1.00	0.334	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.108	U	0.353	0.353	1.00	0.693	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	77.4		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.503	0.514	5.00	0.693	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.615		0.275	0.281	1.00	0.319	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0265	U	0.416	0.416	1.00	0.758	pCi/L	08/27/24 08:35	09/18/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					08/27/24 08:35	09/18/24 12:34	1
Y Carrier	80.4		30 - 110					08/27/24 08:35	09/18/24 12:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.642	U	0.499	0.502	5.00	0.758	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-254674-6

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.307	U	0.224	0.226	1.00	0.317	pCi/L	08/27/24 08:25	09/18/24 23:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					08/27/24 08:25	09/18/24 23:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.366	U	0.482	0.483	1.00	0.804	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	70.7		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.673	U	0.532	0.533	5.00	0.804	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.44		0.419	0.439	1.00	0.336	pCi/L	08/27/24 08:25	09/19/24 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.6		30 - 110					08/27/24 08:25	09/19/24 07:56	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.06		0.607	0.615	1.00	0.874	pCi/L	08/27/24 08:35	09/18/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.6		30 - 110					08/27/24 08:35	09/18/24 12:33	1
Y Carrier	86.0		30 - 110					08/27/24 08:35	09/18/24 12:33	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.50		0.738	0.756	5.00	0.874	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-254674-8

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0344	U	0.108	0.108	1.00	0.208	pCi/L	08/27/24 08:25	09/19/24 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					08/27/24 08:25	09/19/24 07:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.352	U	0.313	0.314	1.00	0.492	pCi/L	08/27/24 08:35	09/18/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					08/27/24 08:35	09/18/24 12:34	1
Y Carrier	86.7		30 - 110					08/27/24 08:35	09/18/24 12:34	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.386	U	0.331	0.332	5.00	0.492	pCi/L		09/23/24 11:33	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-254674-9

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.157	0.158	1.00	0.254	pCi/L	08/27/24 08:25	09/19/24 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					08/27/24 08:25	09/19/24 07:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.173	U	0.261	0.261	1.00	0.551	pCi/L	08/27/24 08:35	09/18/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					08/27/24 08:35	09/18/24 12:34	1
Y Carrier	80.0		30 - 110					08/27/24 08:35	09/18/24 12:34	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0347	U	0.305	0.305	5.00	0.551	pCi/L		09/23/24 11:33	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0852	U	0.138	0.138	1.00	0.241	pCi/L	08/27/24 08:25	09/19/24 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					08/27/24 08:25	09/19/24 07:57	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.298	U	0.363	0.364	1.00	0.600	pCi/L	08/27/24 08:35	09/18/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					08/27/24 08:35	09/18/24 12:34	1
Y Carrier	81.5		30 - 110					08/27/24 08:35	09/18/24 12:34	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.384	U	0.388	0.389	5.00	0.600	pCi/L		09/23/24 11:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
240-209924-Q-6-A MS	Matrix Spike	95.7	
240-209924-Q-6-B MSD	Matrix Spike Duplicate	91.4	
500-255467-H-2-A MSD	Matrix Spike Duplicate	97.2	
500-255467-I-2-B MS	Matrix Spike	96.4	
680-254589-1	MCI-MGWA-5	101	
680-254589-2	MCI-MGWA-6A	96.7	
680-254589-3	MCI-MGWA-6	96.7	
680-254589-4	MCI-MGWA-10	99.2	
680-254589-5	MCI-MGWA-11	99.2	
680-254589-6	MCI-MGWC-1	93.4	
680-254589-7	MCI-AP1-EB-03	77.4	
680-254674-1	MCI-MGWC-12	91.6	
680-254674-2	MCI-MGWC-2	91.9	
680-254674-3	MCI-MGWC-3	85.0	
680-254674-4	MCI-MGWC-7	83.0	
680-254674-5	MCI-MGWC-8	85.3	
680-254674-6	MCI-AP1-FD-01	79.9	
680-254674-7	MCI-AP1-FD-02	56.6	
680-254674-8	MCI-AP1-FB-01	95.7	
680-254674-9	MCI-AP1-FB-02	90.9	
680-254674-10	MCI-AP1-EB-04	85.8	
LCS 160-676468/2-A	Lab Control Sample	98.0	
LCS 160-676930/2-A	Lab Control Sample	93.7	
MB 160-676468/1-A	Method Blank	103	
MB 160-676930/1-A	Method Blank	93.9	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-209924-Q-6-C MS	Matrix Spike	95.7	83.0
240-209924-Q-6-D MSD	Matrix Spike Duplicate	91.4	80.0
500-255467-H-2-B MSD	Matrix Spike Duplicate	97.2	71.8
500-255467-I-2-D MS	Matrix Spike	96.4	77.0
680-254589-1	MCI-MGWA-5	101	75.9
680-254589-2	MCI-MGWA-6A	96.7	78.1
680-254589-3	MCI-MGWA-6	96.7	81.1
680-254589-4	MCI-MGWA-10	99.2	74.4
680-254589-5	MCI-MGWA-11	99.2	79.3
680-254589-6	MCI-MGWC-1	93.4	82.2
680-254589-7	MCI-AP1-EB-03	77.4	81.9
680-254674-1	MCI-MGWC-12	91.6	85.2
680-254674-2	MCI-MGWC-2	91.9	65.0
680-254674-3	MCI-MGWC-3	85.0	79.3
680-254674-4	MCI-MGWC-7	83.0	77.4

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(30-110)	(30-110)
680-254674-5	MCI-MGWC-8	85.3	80.4
680-254674-6	MCI-AP1-FD-01	79.9	70.7
680-254674-7	MCI-AP1-FD-02	56.6	86.0
680-254674-8	MCI-AP1-FB-01	95.7	86.7
680-254674-9	MCI-AP1-FB-02	90.9	80.0
680-254674-10	MCI-AP1-EB-04	85.8	81.5
LCS 160-676472/2-A	Lab Control Sample	98.0	81.1
LCS 160-676931/2-A	Lab Control Sample	93.7	79.3
MB 160-676472/1-A	Method Blank	103	81.5
MB 160-676931/1-A	Method Blank	93.9	84.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-676468/1-A
Matrix: Water
Analysis Batch: 679750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676468

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2064	U	0.184	0.185	1.00	0.281	pCi/L	08/23/24 08:43	09/17/24 23:46	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		30 - 110					08/23/24 08:43	09/17/24 23:46	1

Lab Sample ID: LCS 160-676468/2-A
Matrix: Water
Analysis Batch: 679750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676468

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	9.472		1.21	1.00	0.285	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	98.0		30 - 110					08/23/24 08:43	09/17/24 23:46

Lab Sample ID: 240-209924-Q-6-A MS
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676468

Analyte	Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0524	U	9.58	8.079		1.07	1.00	0.238	pCi/L	84	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	95.7		30 - 110					08/23/24 08:43	09/17/24 23:46	1	

Lab Sample ID: 240-209924-Q-6-B MSD
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676468

Analyte	Sample		Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.0524	U	9.58	8.319		1.10	1.00	0.215	pCi/L	86	60 - 140	0.11	1
Carrier	MSD %Yield	MSD Qualifier	Limits		Prepared	Analyzed	Dil Fac						
Ba Carrier	91.4		30 - 110					08/23/24 08:43	09/17/24 23:46	1			

Lab Sample ID: MB 160-676930/1-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676930

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1233	U	0.140	0.141	1.00	0.224	pCi/L	08/27/24 08:25	09/18/24 23:45	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-676930/1-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676930

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110	08/27/24 08:25	09/18/24 23:45	1

Lab Sample ID: LCS 160-676930/2-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676930

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	8.608		1.16	1.00	0.314	pCi/L	90	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.7		30 - 110

Lab Sample ID: 500-255467-H-2-A MSD
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676930

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
Radium-226	9.87		9.59	15.76		1.82	1.00	0.361	pCi/L	61	60 - 140	0.92	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	97.2		30 - 110

Lab Sample ID: 500-255467-I-2-B MS
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676930

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.87		9.56	19.41		2.14	1.00	0.363	pCi/L	100	60 - 140

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	96.4		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-676472/1-A
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676472

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5624		0.349	0.353	1.00	0.511	pCi/L	08/23/24 08:47	09/17/24 12:08	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110	08/23/24 08:47	09/17/24 12:08	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-676472/1-A
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676472

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.5		30 - 110	08/23/24 08:47	09/17/24 12:08	1

Lab Sample ID: LCS 160-676472/2-A
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676472

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.51	8.708		1.23	1.00	0.507	pCi/L	102	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	81.1		30 - 110

Lab Sample ID: 240-209924-Q-6-C MS
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676472

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	0.551	U	8.51	9.605		1.32	1.00	0.563	pCi/L	106	60 - 140	

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	95.7		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: 240-209924-Q-6-D MSD
Matrix: Water
Analysis Batch: 679727

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676472

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit
Radium-228	0.551	U	8.51	10.17		1.40	1.00	0.526	pCi/L	113	60 - 140	0.21	1	

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	91.4		30 - 110
Y Carrier	80.0		30 - 110

Lab Sample ID: MB 160-676931/1-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676931

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-676931/1-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676931

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	93.9		30 - 110	08/27/24 08:35	09/18/24 12:31	1
Y Carrier	84.1		30 - 110	08/27/24 08:35	09/18/24 12:31	1

Lab Sample ID: LCS 160-676931/2-A
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676931

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.7		30 - 110
Y Carrier	79.3		30 - 110

Lab Sample ID: 500-255467-H-2-B MSD
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 676931

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	97.2		30 - 110
Y Carrier	71.8		30 - 110

Lab Sample ID: 500-255467-I-2-D MS
Matrix: Water
Analysis Batch: 680026

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 676931

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	MS MS		Limits
	%Yield	Qualifier	
Ba Carrier	96.4		30 - 110
Y Carrier	77.0		30 - 110

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Rad

Prep Batch: 676468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	PrecSep-21	
680-254589-2	MCI-MGWA-6A	Total/NA	Water	PrecSep-21	
680-254589-3	MCI-MGWA-6	Total/NA	Water	PrecSep-21	
680-254589-4	MCI-MGWA-10	Total/NA	Water	PrecSep-21	
680-254589-5	MCI-MGWA-11	Total/NA	Water	PrecSep-21	
680-254589-6	MCI-MGWC-1	Total/NA	Water	PrecSep-21	
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	PrecSep-21	
MB 160-676468/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-676468/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-209924-Q-6-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-209924-Q-6-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 676472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254589-1	MCI-MGWA-5	Total/NA	Water	PrecSep_0	
680-254589-2	MCI-MGWA-6A	Total/NA	Water	PrecSep_0	
680-254589-3	MCI-MGWA-6	Total/NA	Water	PrecSep_0	
680-254589-4	MCI-MGWA-10	Total/NA	Water	PrecSep_0	
680-254589-5	MCI-MGWA-11	Total/NA	Water	PrecSep_0	
680-254589-6	MCI-MGWC-1	Total/NA	Water	PrecSep_0	
680-254589-7	MCI-AP1-EB-03	Total/NA	Water	PrecSep_0	
MB 160-676472/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-676472/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-209924-Q-6-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-209924-Q-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 676930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total/NA	Water	PrecSep-21	
680-254674-2	MCI-MGWC-2	Total/NA	Water	PrecSep-21	
680-254674-3	MCI-MGWC-3	Total/NA	Water	PrecSep-21	
680-254674-4	MCI-MGWC-7	Total/NA	Water	PrecSep-21	
680-254674-5	MCI-MGWC-8	Total/NA	Water	PrecSep-21	
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	PrecSep-21	
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	PrecSep-21	
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	PrecSep-21	
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	PrecSep-21	
MB 160-676930/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-676930/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-255467-H-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
500-255467-I-2-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 676931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-1	MCI-MGWC-12	Total/NA	Water	PrecSep_0	
680-254674-2	MCI-MGWC-2	Total/NA	Water	PrecSep_0	
680-254674-3	MCI-MGWC-3	Total/NA	Water	PrecSep_0	
680-254674-4	MCI-MGWC-7	Total/NA	Water	PrecSep_0	
680-254674-5	MCI-MGWC-8	Total/NA	Water	PrecSep_0	
680-254674-6	MCI-AP1-FD-01	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Rad (Continued)

Prep Batch: 676931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254674-7	MCI-AP1-FD-02	Total/NA	Water	PrecSep_0	
680-254674-8	MCI-AP1-FB-01	Total/NA	Water	PrecSep_0	
680-254674-9	MCI-AP1-FB-02	Total/NA	Water	PrecSep_0	
680-254674-10	MCI-AP1-EB-04	Total/NA	Water	PrecSep_0	
MB 160-676931/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-676931/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-255467-H-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
500-255467-I-2-D MS	Matrix Spike	Total/NA	Water	PrecSep_0	



Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-254589-1

Date Collected: 08/13/24 10:29

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.05 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1003.05 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679727	09/17/24 12:13	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-254589-2

Date Collected: 08/13/24 12:33

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.14 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-254589-3

Date Collected: 08/13/24 15:15

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.53 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1003.53 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.76 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-254589-4

Date Collected: 08/13/24 11:53

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1001.76 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-254589-5

Date Collected: 08/13/24 13:47

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.76 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-254589-6

Date Collected: 08/13/24 15:34

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.19 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.19 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.75 mL	1.0 g	676468	08/23/24 08:43	MLT	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 08:25	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1005.75 mL	1.0 g	676472	08/23/24 08:47	MLT	EET SL
Total/NA	Analysis	9320		1			679726	09/17/24 12:16	SCB	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-254589-7

Date Collected: 08/13/24 15:50

Matrix: Water

Date Received: 08/14/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-254674-1

Date Collected: 08/14/24 09:47

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.29 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.29 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680026	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-254674-2

Date Collected: 08/14/24 11:27

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.12 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.12 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680026	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-254674-3

Date Collected: 08/14/24 12:53

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680026	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-254674-4

Date Collected: 08/14/24 13:31

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.84 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1002.84 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680026	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-254674-5

Date Collected: 08/14/24 11:33

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.54 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1001.54 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680026	09/18/24 12:34	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-254674-6

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.08 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680028	09/18/24 23:48	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			998.08 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680028	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.89 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680072	09/19/24 07:56	SWS	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-254674-7

Date Collected: 08/14/24 00:00

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.89 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680028	09/18/24 12:33	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-254674-8

Date Collected: 08/14/24 10:15

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.08 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680072	09/19/24 07:57	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.08 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680028	09/18/24 12:34	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-254674-9

Date Collected: 08/14/24 11:20

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.75 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680072	09/19/24 07:57	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.75 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680028	09/18/24 12:34	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.77 mL	1.0 g	676930	08/27/24 08:25	BCE	EET SL
Total/NA	Analysis	9315		1			680072	09/19/24 07:57	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.77 mL	1.0 g	676931	08/27/24 08:35	BCE	EET SL
Total/NA	Analysis	9320		1			680028	09/18/24 12:34	SWS	EET SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-254674-10

Date Collected: 08/14/24 14:10

Matrix: Water

Date Received: 08/15/24 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			680593	09/23/24 11:33	FLC	EET SL

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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- 2
- 3
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Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-25

- 1
- 2
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Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-254589-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information		Sampler: ACC T. Goble/R. David		Lab PM: David Fuller / Phone: 770-344-8986		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofinsus.com				Page: 1 of 1					
Company: GA Power		Analysis Requested						Job #:					
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No) Yes (Y) / No (N) / Pass (P) / Fail (F) 6020B - App. III & IV Metals (B, Ca; Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti) 7470A - App IV Mercury 300_ORGFM_28D - Chloride Fluoride Sulfate 2540C - Total Dissolved Solids (TDS) 9315_Ra226 - Radium-226 9320_Ra228 - Radium-228 Ra226Ra228_GFPC - Combined Radium-226 & Radium-228		Total Number of containers		Preservation Codes:					
City: Atlanta		TAT Requested (days):						Loc: 680 254589		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)			
State, Zip: GA, 30308		Lab Project #: 68027747								Other:			
Phone: 404-506-7116(Tel)		PO #: GPC82130-0002 / PO Line #5								Task Code: MCI-CCR-ASSMT-2024S2			
Email: SCS Contacts / ACC Contacts		Project #:								Special Instructions/Note: Full APP III + APP IV			
Project Name: Plant McIntosh - Ash Pond 1		SSOW#:											
Site: Georgia													
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Preservation Code:							
MCI- MGWA-5	08/13/24	1029	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- MGWA-6A	08/13/24	1233	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- MGWA-6	08/13/24	1515	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- MGWA-10	08/13/24	1153	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- MGWA-11	08/13/24	1347	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- MGWC-1	08/13/24	1534	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI- API-FB-03	08/13/24	1550	G	WG	N	N	✓	✓	✓	✓	✓	✓	5
MCI-			G		N	N							
MCI-			G		N	N							
MCI-			G		N	N							
MCI-			G		N	N							



Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 8-14-24/0815	Company: ACC	Received by: <i>[Signature]</i>		Date/Time: 8/14/24 815	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.6/2.6 1.0/1.0 CRO			

Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information					Sampler: <u>T. Goble / H. Auld</u> ACC		Lab PM: David Fuller / Phone: 770-344-8986		Carrier Tracking No(s):		COC No:			
Client Contact SCS Contacts					Phone: <u>770-594-5998</u>		E-Mail: <u>david.fuller@et.eurofinsus.com</u>				Page: <u>1 of 1</u>			
Company: GA Power					Analysis Requested							Job #:		
Address: 241 Ralph McGill Blvd SE												Due Date Requested:		Preservation Codes:
City: Atlanta					TAT Requested (days):		6020B - App. III & IV Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti) 7470A - App IV Mercury 300_ORGFEM_28D - Chloride Fluoride Sulfate 2540C - Total Dissolved Solids (TDS) 9315_Ra226 - Radium-226 9320_Ra228 - Radium-228 Ra226Ra228_GFPC - Combined Radium-226 & Radium-228		Loc: 680 254674		Total Number of containers 5		Task Code: MCI-CCR-ASSMT-2024S2 Special Instructions/Note: Full APP III + APP IV	
State, Zip: GA, 30308					Lab Project #: 68027747									
Phone: 404-506-7116(Tel)					PO #: GPC82130-0002 / PO Line #5									
Email: SCS Contacts / ACC Contacts					Project #:									
Project Name: Plant McIntosh - Ash Pond 1					SSOW#:									
Site: Georgia														
Sample Identification					Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)			
									Preservation Code:					
MCI- MGWC-12					08/14/24		0947		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- MGWC-2					08/14/24		1127		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- MGWC-3					08/14/24		1253		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- MGWC-7					08/14/24		1331		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- MGWC-8					08/14/24		1133		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- API-FD-01					08/14/24		-		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- API-FD-02					08/14/24		-		G WG		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- API-FB-01					08/14/24		1015		G WQ		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- API-FB-02					09/14/24		1120		G WQ		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI- API-EB-04					08/14/24		1410		G WQ		N N ✓ ✓ ✓ ✓ ✓ ✓ ✓			
MCI-									G		N			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:									
Empty Kit Relinquished by:					Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>					Date/Time: <u>8-15-24/0837</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8/15/24 0837</u>			
Relinquished by:					Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:					Date/Time:		Company:		Received by: <u>2.9/2.9 0.6/0.6 0.4/0.4</u>		Date/Time:			
Custody Seals Intact: Δ Yes Δ No					Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.1/2.1 1.5/1.5 1.9/1.9 CDO</u>							

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Fuller, David	Carrier Tracking No(s)	COC No 680-779828.1
Client Contact Shipping/Receiving		E-Mail David.Fuller@et.eurofins.com	State of Origin Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Florida, State - Georgia		
Address 13715 Rider Trail North,		Preservation Codes:		
City Earth City	State, Zip MO, 63045			
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #			
Email	WO #			
Project Name Plant McIntosh - Ash Pond 1	Project # 68027747			
Site	SSOW#			
Due Date Requested: 9/13/2024		Analysis Requested		
TAT Requested (days):		Total Number of Containers		
Field Filtered Sample (Yes or No)		9320_Ra226/PreSep_0 Radium-226		
Perform MS/MSD (Yes or No)		9315_Ra226/PreSep_21 Radium-226		
Radium-226		Ra226Ra226_GFP/Combined Radium-226 and		
Preservation Code				
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Basin, Ash)	
8/13/24	10:29 Eastern	Water	Water	X
8/13/24	12:33 Eastern	Water	Water	X
8/13/24	15:15 Eastern	Water	Water	X
8/13/24	11:53 Eastern	Water	Water	X
8/13/24	13:47 Eastern	Water	Water	X
8/13/24	15:34 Eastern	Water	Water	X
8/13/24	15:50 Eastern	Water	Water	X
8/13/24	Eastern	Water	Water	X
Special Instructions/Note:				
MCI-MGWA-5 (680-254589-1)				
MCI-MGWA-6A (680-254589-2)				
MCI-MGWA-6 (680-254589-3)				
MCI-MGWA-10 (680-254589-4)				
MCI-MGWA-11 (680-254589-5)				
MCI-MGWC-1 (680-254589-6)				
MCI-AP1-EB-03 (680-254589-7)				
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Southeast, LLC				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				
Empty Kit Relinquished by				
Relinquished by				
Relinquished by				
Relinquished by				
Custody Seals Intact Δ Yes Δ No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements:				
Time				
Method of Shipment				
Received by				
Date/Time				
Company				
Received by				
Date/Time				
Company				
Received by				
Date/Time				
Company				
Received by				
Date/Time				
Company				

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-2

Login Number: 254589

List Number: 1

Creator: Faught, Timothy

List Source: Eurofins Savannah

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-2

Login Number: 254589

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/15/24 12:47 PM

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-2

Login Number: 254674

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254589-2

Login Number: 254674

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/16/24 01:16 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 12/16/2024 4:58:07 PM

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1 Interim

JOB NUMBER

680-259563-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
12/16/2024 4:58:07 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
680-259563-1	MCI-MGWC-19	Water	12/09/24 13:21	12/10/24 08:35
680-259563-2	MCI-MGWC-20	Water	12/09/24 12:07	12/10/24 08:35

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Case Narrative

Client: Southern Company
Project: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Job ID: 680-259563-1

Eurofins Savannah

Job Narrative 680-259563-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 12/10/2024 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

HPLC/IC

Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 680-868973 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-868973 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Metals

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

General Chemistry

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

Eurofins Savannah

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-259563-1

Date Collected: 12/09/24 13:21

Matrix: Water

Date Received: 12/10/24 08:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		10	2.0	mg/L			12/14/24 17:10	10
Fluoride	<0.40		1.0	0.40	mg/L			12/14/24 17:10	10
Sulfate	290		10	4.0	mg/L			12/14/24 17:10	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3	F1	0.080	0.022	mg/L		12/10/24 12:38	12/11/24 15:06	1
Calcium	120		0.50	0.14	mg/L		12/10/24 12:38	12/11/24 15:06	1
Lithium	0.0051		0.0050	0.0020	mg/L		12/10/24 12:38	12/12/24 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	510		40	40	mg/L			12/13/24 13:16	1

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-259563-2

Date Collected: 12/09/24 12:07

Matrix: Water

Date Received: 12/10/24 08:35

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		10	2.0	mg/L			12/14/24 17:20	10
Fluoride	<0.40		1.0	0.40	mg/L			12/14/24 17:20	10
Sulfate	150		10	4.0	mg/L			12/14/24 17:20	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.080	0.022	mg/L		12/10/24 12:38	12/11/24 15:14	1
Calcium	47		0.50	0.14	mg/L		12/10/24 12:38	12/11/24 15:14	1
Lithium	0.0029	J	0.0050	0.0020	mg/L		12/10/24 12:38	12/12/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	320		40	40	mg/L			12/13/24 13:16	1

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-868973/2
 Matrix: Water
 Analysis Batch: 868973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			12/14/24 12:27	1
Fluoride	<0.040		0.10	0.040	mg/L			12/14/24 12:27	1
Sulfate	<0.40		1.0	0.40	mg/L			12/14/24 12:27	1

Lab Sample ID: LCS 680-868973/3
 Matrix: Water
 Analysis Batch: 868973

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.2		mg/L		102	90 - 110
Fluoride	2.00	2.05		mg/L		102	90 - 110
Sulfate	10.0	9.99		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-868973/4
 Matrix: Water
 Analysis Batch: 868973

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.06		mg/L		103	90 - 110	1	15
Sulfate	10.0	10.1		mg/L		101	90 - 110	1	15

Lab Sample ID: 680-259491-C-22 MS
 Matrix: Water
 Analysis Batch: 868973

Client Sample ID: Matrix Spike
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16	F1	10.0	24.4	E	mg/L		85	80 - 120
Fluoride	0.60	F1 F2	2.00	2.37		mg/L		89	80 - 120
Sulfate	16	F1	10.0	25.5		mg/L		97	80 - 120

Lab Sample ID: 680-259491-C-22 MSD
 Matrix: Water
 Analysis Batch: 868973

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16	F1	10.0	22.2	E F1	mg/L		63	80 - 120	9	15
Fluoride	0.60	F1 F2	2.00	1.88	F1 F2	mg/L		64	80 - 120	23	15
Sulfate	16	F1	10.0	22.2	F1	mg/L		64	80 - 120	14	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-868193/1-A
 Matrix: Water
 Analysis Batch: 868561

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 868193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		12/10/24 12:38	12/11/24 15:01	1
Calcium	<0.14		0.50	0.14	mg/L		12/10/24 12:38	12/11/24 15:01	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

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

Lab Sample ID: MB 680-868193/1-A
Matrix: Water
Analysis Batch: 868713

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		12/10/24 12:38	12/12/24 15:00	1

Lab Sample ID: LCS 680-868193/2-A
Matrix: Water
Analysis Batch: 868561

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.400	0.428		mg/L		107	80 - 120
Calcium	5.00	5.33		mg/L		107	80 - 120

Lab Sample ID: LCS 680-868193/2-A
Matrix: Water
Analysis Batch: 868713

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.495		mg/L		99	80 - 120

Lab Sample ID: 680-259563-1 MS
Matrix: Water
Analysis Batch: 868561

Client Sample ID: MCI-MGWC-19
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.3	F1	0.400	1.72		mg/L		102	75 - 125
Calcium	120		5.00	117	4	mg/L		10	75 - 125

Lab Sample ID: 680-259563-1 MS
Matrix: Water
Analysis Batch: 868713

Client Sample ID: MCI-MGWC-19
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0051		0.500	0.502		mg/L		99	75 - 125

Lab Sample ID: 680-259563-1 MSD
Matrix: Water
Analysis Batch: 868561

Client Sample ID: MCI-MGWC-19
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.3	F1	0.400	1.84	F1	mg/L		131	75 - 125	7	20
Calcium	120		5.00	127	4	mg/L		217	75 - 125	8	20

Lab Sample ID: 680-259563-1 MSD
Matrix: Water
Analysis Batch: 868713

Client Sample ID: MCI-MGWC-19
Prep Type: Total Recoverable
Prep Batch: 868193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0051		0.500	0.512		mg/L		101	75 - 125	2	20

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-868877/1
Matrix: Water
Analysis Batch: 868877

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			12/13/24 13:16	1

Lab Sample ID: LCS 680-868877/2
Matrix: Water
Analysis Batch: 868877

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	2440	2410		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-868877/3
Matrix: Water
Analysis Batch: 868877

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2380		mg/L		98	80 - 120	1	25

Lab Sample ID: 680-259797-A-48 DU
Matrix: Water
Analysis Batch: 868877

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	420		412		mg/L		1	5

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

HPLC/IC

Analysis Batch: 868973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259563-1	MCI-MGWC-19	Total/NA	Water	300.0-1993 R2.1	
680-259563-2	MCI-MGWC-20	Total/NA	Water	300.0-1993 R2.1	
MB 680-868973/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-868973/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-868973/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-259491-C-22 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-259491-C-22 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 868193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259563-1	MCI-MGWC-19	Total Recoverable	Water	3005A	
680-259563-2	MCI-MGWC-20	Total Recoverable	Water	3005A	
MB 680-868193/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-868193/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-259563-1 MS	MCI-MGWC-19	Total Recoverable	Water	3005A	
680-259563-1 MSD	MCI-MGWC-19	Total Recoverable	Water	3005A	

Analysis Batch: 868561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259563-1	MCI-MGWC-19	Total Recoverable	Water	6020B	868193
680-259563-2	MCI-MGWC-20	Total Recoverable	Water	6020B	868193
MB 680-868193/1-A	Method Blank	Total Recoverable	Water	6020B	868193
LCS 680-868193/2-A	Lab Control Sample	Total Recoverable	Water	6020B	868193
680-259563-1 MS	MCI-MGWC-19	Total Recoverable	Water	6020B	868193
680-259563-1 MSD	MCI-MGWC-19	Total Recoverable	Water	6020B	868193

Analysis Batch: 868713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259563-1	MCI-MGWC-19	Total Recoverable	Water	6020B	868193
680-259563-2	MCI-MGWC-20	Total Recoverable	Water	6020B	868193
MB 680-868193/1-A	Method Blank	Total Recoverable	Water	6020B	868193
LCS 680-868193/2-A	Lab Control Sample	Total Recoverable	Water	6020B	868193
680-259563-1 MS	MCI-MGWC-19	Total Recoverable	Water	6020B	868193
680-259563-1 MSD	MCI-MGWC-19	Total Recoverable	Water	6020B	868193

General Chemistry

Analysis Batch: 868877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259563-1	MCI-MGWC-19	Total/NA	Water	2540C-2011	
680-259563-2	MCI-MGWC-20	Total/NA	Water	2540C-2011	
MB 680-868877/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-868877/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-868877/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-259797-A-48 DU	Duplicate	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-259563-1

Date Collected: 12/09/24 13:21

Matrix: Water

Date Received: 12/10/24 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	868973	12/14/24 17:10	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	868193	12/10/24 12:38	RR	EET SAV
Total Recoverable	Analysis	6020B		1			868713	12/12/24 15:06	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	868193	12/10/24 12:38	RR	EET SAV
Total Recoverable	Analysis	6020B		1			868561	12/11/24 15:06	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	868877	12/13/24 13:16	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-259563-2

Date Collected: 12/09/24 12:07

Matrix: Water

Date Received: 12/10/24 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	868973	12/14/24 17:20	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	868193	12/10/24 12:38	RR	EET SAV
Total Recoverable	Analysis	6020B		1			868713	12/12/24 15:15	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	868193	12/10/24 12:38	RR	EET SAV
Total Recoverable	Analysis	6020B		1			868561	12/11/24 15:14	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	868877	12/13/24 13:16	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1 Interim

Job ID: 680-259563-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-259563-1

Login Number: 259563

List Number: 1

Creator: Faught, Timothy

List Source: Eurofins Savannah

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

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Ash Pond 1

Annual Event

August 2024

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – August 2024

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah and St. Louis for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between August 13, 2024 and August 14, 2024. 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.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection 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 (US EPA Method 6020B), Mercury in Liquid Wastes (US EPA Method 7470A), Determination of Inorganic Anions (US EPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (US EPA Method 9315), and Radium-228 (US EPA Method 9320).

Data were reviewed in accordance with the US EPA Region 4 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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 were reviewed. If 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, except for sulfate from MCI-MGWC-2 (680-254674-2) and combined radium 226+228 from MCI-MGWC-3 (680-254674-3) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, except for sulfate from MCI-MGWA-5 (680-254589-1) and MCI-AP1-FD-02 (680-254674-7) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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:

B: The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.

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.

ND: 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 MCI-MGWC-2 (680-254674-2) and MCI-AP1-FD-01 (680-254674-6) were qualified as estimated (J) for sulfate as the field relative percent difference (RPD) exceeded QC criteria (39.3% above the limit of 20).
- Samples MCI-MGWC-3 (680-254674-3) and MCI-AP1-FD-02 (680-254674-7) were qualified as estimated (J) for combined radium 226+228 as the field RPD exceeded QC criteria (74.7% above the limit of 20).
- Sample MCI-MGWA-5 (680-254589-1) was qualified as estimated (J) for sulfate as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (145% and 155%, above the range of 80-120).
- Sample MCI-AP1-FD-02 (680-254674-7) was qualified as estimated (J) for sulfate as the associated MS and MSD recoveries were outside QC criteria (142% and 152%, above the range of 80-120).
- Sample MCI-MGWA-10 (680-254589-4) was qualified as high biased (B) for chromium due to the analyte being detected in the associated equipment blank sample.
- Prep batch 676472 and analytical batch 679727 for radium-228 yielded a detectable concentration above the minimum detectable concentration (MDC). However, all associated samples did not have detectable concentrations for radium-228. Therefore, no qualification is warranted.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between August 13, 2024 and August 14, 2024 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

¹US EPA, 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

²US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1
2024 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
Sample Summary Table – August 2024
Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
254589-1	MCI-MGWA-5	08/13/24	680-254589-1	WG		X	X	X	
254589-2	MCI-MGWA-5	08/13/24	680-254589-1	WG					X
254589-1	MCI-MGWA-6A	08/13/24	680-254589-2	WG		X	X	X	
254589-2	MCI-MGWA-6A	08/13/24	680-254589-2	WG					X
254589-1	MCI-MGWA-6	08/13/24	680-254589-3	WG		X	X	X	
254589-2	MCI-MGWA-6	08/13/24	680-254589-3	WG					X
254589-1	MCI-MGWA-10	08/13/24	680-254589-4	WG		X	X	X	
254589-2	MCI-MGWA-10	08/13/24	680-254589-4	WG					X
254589-1	MCI-MGWA-11	08/13/24	680-254589-5	WG		X	X	X	
254589-2	MCI-MGWA-11	08/13/24	680-254589-5	WG					X
254589-1	MCI-MGWC-1	08/13/24	680-254589-6	WG		X	X	X	
254589-2	MCI-MGWC-1	08/13/24	680-254589-6	WG					X
254589-1	MCI-AP1-EB-03	08/13/24	680-254589-7	WQ	EB	X	X	X	
254589-2	MCI-AP1-EB-03	08/13/24	680-254589-7	WQ	EB				X
254589-1	MCI-MGWC-12	08/14/24	680-254674-1	WG		X	X	X	
254589-2	MCI-MGWC-12	08/14/24	680-254674-1	WG					X
254589-1	MCI-MGWC-2	08/14/24	680-254674-2	WG		X	X	X	
254589-2	MCI-MGWC-2	08/14/24	680-254674-2	WG					X
254589-1	MCI-MGWC-3	08/14/24	680-254674-3	WG		X	X	X	
254589-2	MCI-MGWC-3	08/14/24	680-254674-3	WG					X
254589-1	MCI-MGWC-7	08/14/24	680-254674-4	WG		X	X	X	
254589-2	MCI-MGWC-7	08/14/24	680-254674-4	WG					X
254589-1	MCI-MGWC-8	08/14/24	680-254674-5	WG		X	X	X	
254589-2	MCI-MGWC-8	08/14/24	680-254674-5	WG					X
254589-1	MCI-AP1-FD-01	08/14/24	680-254674-6	WG	FD (MCI-MGWC-2)	X	X	X	
254589-2	MCI-AP1-FD-01	08/14/24	680-254674-6	WG	FD (MCI-MGWC-2)				X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

Plant McIntosh Ash Pond 1
 2024 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Sample Summary Table – August 2024

Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
254589-1	MCI-AP1-FD-02	08/14/24	680-254674-7	WG	FD (MCI-MGWC-3)	X	X	X	
254589-2	MCI-AP1-FD-02	08/14/24	680-254674-7	WG	FD (MCI-MGWC-3)				X
254589-1	MCI-AP1-FB-01	08/14/24	680-254674-8	WQ	FB	X	X	X	
254589-2	MCI-AP1-FB-01	08/14/24	680-254674-8	WQ	FB				X
254589-1	MCI-AP1-FB-02	08/14/24	680-254674-9	WQ	FB	X	X	X	
254589-2	MCI-AP1-FB-02	08/14/24	680-254674-9	WQ	FB				X
254589-1	MCI-AP1-EB-04	08/14/24	680-254674-10	WQ	EB	X	X	X	
254589-2	MCI-AP1-EB-04	08/14/24	680-254674-10	WQ	EB				X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

Plant McIntosh Ash Pond 1
 2024 Annual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Qualifier Summary Table – August 2024
 Georgia Power Company – McIntosh AP1

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
254589-1	MCI-MGWA-10	Chromium			B	Blank detection
254589-1	MCI-MGWC-2	Sulfate			J	RPD exceeds field goal
254589-1	MCI-AP1-FD-01	Sulfate			J	RPD exceeds field goal
254589-2	MCI-MGWC-3	Radium, combined			J	RPD exceeds field goal
254589-2	MCI-AP1-FD-02	Radium, combined			J	RPD exceeds field goal
254589-1	MCI-MGWA-5	Sulfate			J	MS/MSD outside QC criterion
254589-1	MCI-AP1-FD-02	Sulfate			J	MS/MSD outside QC criterion

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:

B – Field or Equipment Blank Detection
 J – Estimated Result
 ND – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

**McIntosh Ash Pond 1
Interim Sampling Event
December 2024**

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – December 2024

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Ash Pond 1 (AP1) on December 9, 2024. 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.

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

Data were reviewed in accordance with the US EPA Region 4 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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 (laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If 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 not applicable to this sampling event.

Accuracy: Laboratory goals for accuracy were met, except for boron and calcium from MCI-MGWC-19 (680-259563-1) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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:

B: The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.

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

ND: 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.

- Sample MCI-MGWC-19 (680-259563-1) was qualified as estimated (J) for calcium as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (10% and 217%, respectively, outside the range of 75-125).
- Sample MCI-MGWC-19 (680-259563-1) was qualified as estimated (J) for boron as the associated MSD recovery was outside QC criteria (131%, above the range of 75-125).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled on December 9, 2024 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

¹US EPA, 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

²US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1
 2024 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Sample Summary Table – December 2024
 Georgia Power Company – McIntosh AP1

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
259563-1	MCI-MGWC-19	12/09/24	680-259563-1	WG		X	X	X
259563-1	MCI-MGWC-20	12/09/24	680-259563-2	WG		X	X	X

- Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WG – Groundwater
 WQ – Water Quality Control

Plant McIntosh Ash Pond 1
 2024 Annual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Qualifier Summary Table – December 2024
 Georgia Power Company – McIntosh AP1

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
259563-1	MCI-MGWC-19	Boron			J	MSD outside QC criterion
259563-1	MCI-MGWC-19	Calcium			J	MS/MSD outside QC criterion

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:

B – Field or Equipment Blank Detection
 J – Estimated Result
 ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 8/13/2024 3:00:16 PM

Project: Plant McIntosh AP-1

Operator Name: Hunter Auld

Location Name: MGWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.08 ft Total Depth: 56.08 ft Initial Depth to Water: 39.81 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Pump Intake From TOC: 51.1 ft Estimated Total Volume Pumped: 6.9 liter Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 15.5 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sample time 1534. Sunny 93.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 50	+/- 0.3	
8/13/2024 3:00 PM	00:00	7.15 pH	26.55 °C	567.13 µS/cm	1.11 mg/L	5.00 NTU	176.7 mV	39.81 ft	200.00 ml/min
8/13/2024 3:05 PM	05:00	7.02 pH	24.24 °C	557.33 µS/cm	1.08 mg/L	11.10 NTU	166.4 mV	40.90 ft	200.00 ml/min
8/13/2024 3:10 PM	10:00	7.00 pH	24.08 °C	561.33 µS/cm	0.97 mg/L	5.80 NTU	155.1 mV	41.00 ft	200.00 ml/min
8/13/2024 3:15 PM	15:00	7.02 pH	23.72 °C	564.66 µS/cm	0.91 mg/L	4.02 NTU	148.7 mV	41.10 ft	200.00 ml/min
8/13/2024 3:20 PM	20:00	7.04 pH	23.89 °C	566.77 µS/cm	0.81 mg/L	3.12 NTU	142.0 mV	41.10 ft	200.00 ml/min
8/13/2024 3:24 PM	24:20	7.07 pH	23.21 °C	567.56 µS/cm	0.79 mg/L	3.14 NTU	136.7 mV	41.10 ft	200.00 ml/min
8/13/2024 3:29 PM	29:20	7.10 pH	23.16 °C	568.23 µS/cm	0.73 mg/L	3.00 NTU	123.2 mV	41.10 ft	200.00 ml/min
8/13/2024 3:34 PM	34:20	7.14 pH	23.32 °C	572.65 µS/cm	0.60 mg/L	1.87 NTU	78.4 mV	41.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 10:52:01 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.36 ft Total Depth: 37.36 ft Initial Depth to Water: 21.24 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1127. Cloudy 83 degrees. AP1-FD-01

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2024 10:52 AM	00:00	7.67 pH	27.25 °C	600.87 µS/cm	2.24 mg/L	3.61 NTU	100.3 mV	21.93 ft	200.00 ml/min
8/14/2024 10:57 AM	05:00	7.70 pH	23.16 °C	634.93 µS/cm	0.27 mg/L	6.61 NTU	90.8 mV	22.35 ft	200.00 ml/min
8/14/2024 11:02 AM	10:00	7.71 pH	23.43 °C	636.23 µS/cm	0.19 mg/L	9.07 NTU	87.1 mV	22.72 ft	200.00 ml/min
8/14/2024 11:07 AM	15:00	7.72 pH	23.56 °C	629.80 µS/cm	0.18 mg/L	10.30 NTU	85.3 mV	22.78 ft	200.00 ml/min
8/14/2024 11:12 AM	20:00	7.73 pH	23.63 °C	627.61 µS/cm	0.18 mg/L	7.78 NTU	83.7 mV	22.78 ft	200.00 ml/min
8/14/2024 11:17 AM	25:00	7.73 pH	23.43 °C	630.16 µS/cm	0.16 mg/L	6.30 NTU	83.1 mV	22.78 ft	200.00 ml/min
8/14/2024 11:22 AM	30:00	7.73 pH	23.50 °C	632.80 µS/cm	0.16 mg/L	6.01 NTU	82.2 mV	22.78 ft	200.00 ml/min
8/14/2024 11:27 AM	35:00	7.73 pH	23.78 °C	625.23 µS/cm	0.15 mg/L	4.19 NTU	81.5 mV	22.78 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:28:21 PM

Project: Plant McIntosh AP-1

Operator Name: Hunter Auld

Location Name: MGWC-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.74 ft Total Depth: 38.74 ft Initial Depth to Water: 20.43 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 130 ml Final Flow Rate: 240 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sample time 1253. Cloudy 86. AP1-FD-02 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2024 12:28 PM	00:00	7.26 pH	22.72 °C	563.55 µS/cm	0.70 mg/L	1.82 NTU	97.9 mV	20.43 ft	240.00 ml/min
8/14/2024 12:33 PM	05:00	7.14 pH	21.88 °C	571.52 µS/cm	0.31 mg/L	1.12 NTU	95.5 mV	21.00 ft	240.00 ml/min
8/14/2024 12:38 PM	10:00	7.12 pH	21.91 °C	572.14 µS/cm	0.16 mg/L	0.59 NTU	87.8 mV	21.00 ft	240.00 ml/min
8/14/2024 12:43 PM	15:00	7.11 pH	22.31 °C	574.51 µS/cm	0.14 mg/L	0.66 NTU	81.3 mV	21.00 ft	240.00 ml/min
8/14/2024 12:48 PM	20:00	7.13 pH	22.08 °C	566.83 µS/cm	0.12 mg/L	0.67 NTU	74.7 mV	21.00 ft	240.00 ml/min
8/14/2024 12:53 PM	25:00	7.14 pH	22.43 °C	560.44 µS/cm	0.11 mg/L	0.85 NTU	67.5 mV	21.00 ft	240.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 10:04:04 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.09 ft Total Depth: 63.09 ft Initial Depth to Water: 24.11 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 58 ft Estimated Total Volume Pumped: 3.25 liter Flow Cell Volume: 130 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.96 ft	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sampled at 1029. Sunny 84 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/13/2024 10:04 AM	00:00	7.55 pH	24.19 °C	216.70 µS/cm	0.74 mg/L	14.60 NTU	175.7 mV	24.95 ft	130.00 ml/min
8/13/2024 10:09 AM	05:00	7.51 pH	24.80 °C	215.38 µS/cm	0.44 mg/L	8.04 NTU	81.1 mV	25.04 ft	130.00 ml/min
8/13/2024 10:14 AM	10:00	7.55 pH	24.68 °C	213.51 µS/cm	0.42 mg/L	6.62 NTU	-70.3 mV	25.07 ft	130.00 ml/min
8/13/2024 10:19 AM	15:00	7.59 pH	24.82 °C	212.20 µS/cm	0.36 mg/L	5.16 NTU	-106.6 mV	25.07 ft	130.00 ml/min
8/13/2024 10:24 AM	20:00	7.64 pH	24.74 °C	211.47 µS/cm	0.41 mg/L	3.72 NTU	-123.0 mV	25.07 ft	130.00 ml/min
8/13/2024 10:29 AM	25:00	7.67 pH	24.61 °C	210.43 µS/cm	0.37 mg/L	2.83 NTU	-132.5 mV	25.07 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 2:50:33 PM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.93 ft Total Depth: 41.93 ft Initial Depth to Water: 23.42 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1515. Partly cloudy 93 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/13/2024 2:50 PM	00:00	6.83 pH	35.55 °C	425.85 µS/cm	2.94 mg/L	7.40 NTU	105.0 mV	23.65 ft	150.00 ml/min
8/13/2024 2:55 PM	05:00	7.15 pH	25.55 °C	476.10 µS/cm	0.27 mg/L	4.46 NTU	82.8 mV	23.77 ft	150.00 ml/min
8/13/2024 3:00 PM	10:00	7.21 pH	24.44 °C	480.69 µS/cm	0.27 mg/L	3.77 NTU	75.3 mV	23.79 ft	150.00 ml/min
8/13/2024 3:05 PM	15:00	7.23 pH	24.31 °C	474.64 µS/cm	0.23 mg/L	3.39 NTU	69.4 mV	23.79 ft	150.00 ml/min
8/13/2024 3:10 PM	20:00	7.25 pH	24.87 °C	479.22 µS/cm	0.22 mg/L	3.02 NTU	64.8 mV	23.79 ft	150.00 ml/min
8/13/2024 3:15 PM	25:00	7.27 pH	24.34 °C	476.28 µS/cm	0.21 mg/L	2.97 NTU	62.1 mV	23.79 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 11:38:17 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWA-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.67 ft Total Depth: 39.67 ft Initial Depth to Water: 22.08 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 8.25 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.53 ft	Instrument Used: Aqua TROLL 500 Serial Number: 822678
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Test Notes:

Sampled at 1233. Partly cloudy 91 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/13/2024 11:38 AM	00:00	7.30 pH	30.01 °C	601.29 µS/cm	3.09 mg/L	252.00 NTU	219.9 mV	22.82 ft	150.00 ml/min
8/13/2024 11:43 AM	05:00	7.19 pH	25.06 °C	429.28 µS/cm	0.93 mg/L	38.80 NTU	219.5 mV	23.15 ft	150.00 ml/min
8/13/2024 11:48 AM	10:00	7.18 pH	24.33 °C	426.52 µS/cm	0.72 mg/L	30.80 NTU	215.5 mV	23.30 ft	150.00 ml/min
8/13/2024 11:53 AM	15:00	7.20 pH	24.55 °C	423.92 µS/cm	0.58 mg/L	22.90 NTU	195.6 mV	23.43 ft	150.00 ml/min
8/13/2024 11:58 AM	20:00	7.21 pH	24.12 °C	422.73 µS/cm	0.52 mg/L	20.80 NTU	141.5 mV	23.51 ft	150.00 ml/min
8/13/2024 12:03 PM	25:00	7.23 pH	24.72 °C	422.55 µS/cm	0.43 mg/L	17.70 NTU	49.8 mV	23.57 ft	150.00 ml/min
8/13/2024 12:08 PM	30:00	7.22 pH	24.79 °C	423.26 µS/cm	0.38 mg/L	14.10 NTU	22.9 mV	23.61 ft	150.00 ml/min
8/13/2024 12:13 PM	35:00	7.23 pH	24.28 °C	423.99 µS/cm	0.35 mg/L	11.20 NTU	-7.4 mV	23.61 ft	150.00 ml/min
8/13/2024 12:18 PM	40:00	7.21 pH	25.18 °C	423.22 µS/cm	0.31 mg/L	9.52 NTU	-28.3 mV	23.61 ft	150.00 ml/min
8/13/2024 12:23 PM	45:00	7.21 pH	24.61 °C	424.47 µS/cm	0.29 mg/L	6.74 NTU	-32.9 mV	23.61 ft	150.00 ml/min
8/13/2024 12:28 PM	50:00	7.23 pH	25.14 °C	426.12 µS/cm	0.27 mg/L	5.81 NTU	-44.5 mV	23.61 ft	150.00 ml/min
8/13/2024 12:33 PM	55:00	7.23 pH	25.31 °C	424.73 µS/cm	0.25 mg/L	4.84 NTU	-54.1 mV	23.61 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:56:19 PM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.29 ft Total Depth: 42.29 ft Initial Depth to Water: 24.01 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.76 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 1331. Cloudy 87 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2024 12:56 PM	00:00	8.26 pH	34.64 °C	455.84 µS/cm	4.11 mg/L	6.18 NTU	110.6 mV	24.41 ft	150.00 ml/min
8/14/2024 1:01 PM	05:00	7.92 pH	25.76 °C	472.24 µS/cm	1.01 mg/L	8.34 NTU	103.6 mV	24.58 ft	150.00 ml/min
8/14/2024 1:06 PM	10:00	7.80 pH	24.06 °C	475.37 µS/cm	0.94 mg/L	7.03 NTU	102.5 mV	24.70 ft	150.00 ml/min
8/14/2024 1:11 PM	15:00	7.70 pH	24.59 °C	476.79 µS/cm	0.88 mg/L	6.38 NTU	100.9 mV	24.75 ft	150.00 ml/min
8/14/2024 1:16 PM	20:00	7.63 pH	24.92 °C	475.38 µS/cm	0.80 mg/L	5.62 NTU	99.9 mV	24.77 ft	150.00 ml/min
8/14/2024 1:21 PM	25:00	7.59 pH	24.26 °C	476.55 µS/cm	0.74 mg/L	5.32 NTU	99.6 mV	24.77 ft	150.00 ml/min
8/14/2024 1:26 PM	30:00	7.54 pH	24.07 °C	478.19 µS/cm	0.63 mg/L	5.11 NTU	99.8 mV	24.77 ft	150.00 ml/min
8/14/2024 1:31 PM	35:00	7.50 pH	24.80 °C	477.65 µS/cm	0.59 mg/L	4.04 NTU	99.0 mV	24.77 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 10:48:25 AM

Project: Plant McIntosh AP-1

Operator Name: Hunter Auld

Location Name: MGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.56 ft Total Depth: 52.56 ft Initial Depth to Water: 34.98 ft	Pump Type: Portable Bladder Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.04 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sample time 1133. Cloudy 83. AP1-FB-02 here at 1120.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2024 10:48 AM	00:00	6.97 pH	33.66 °C	7.78 µS/cm	4.13 mg/L	81.00 NTU	185.8 mV	34.98 ft	200.00 ml/min
8/14/2024 10:53 AM	05:00	7.76 pH	23.39 °C	853.17 µS/cm	0.42 mg/L	107.00 NTU	203.1 mV	35.15 ft	200.00 ml/min
8/14/2024 10:58 AM	10:00	7.75 pH	22.99 °C	853.35 µS/cm	0.23 mg/L	90.00 NTU	181.6 mV	35.15 ft	200.00 ml/min
8/14/2024 11:03 AM	15:00	7.75 pH	23.04 °C	853.60 µS/cm	0.19 mg/L	47.30 NTU	117.6 mV	35.15 ft	200.00 ml/min
8/14/2024 11:08 AM	20:00	7.76 pH	23.09 °C	853.37 µS/cm	0.15 mg/L	25.90 NTU	42.6 mV	35.15 ft	200.00 ml/min
8/14/2024 11:13 AM	25:00	7.78 pH	22.99 °C	851.15 µS/cm	0.14 mg/L	17.20 NTU	-12.3 mV	35.15 ft	200.00 ml/min
8/14/2024 11:18 AM	30:00	7.78 pH	22.91 °C	849.89 µS/cm	0.15 mg/L	12.50 NTU	-44.0 mV	35.15 ft	200.00 ml/min
8/14/2024 11:23 AM	35:00	7.79 pH	23.09 °C	850.10 µS/cm	0.12 mg/L	8.18 NTU	-61.0 mV	35.15 ft	200.00 ml/min
8/14/2024 11:28 AM	40:00	7.81 pH	22.89 °C	847.83 µS/cm	0.10 mg/L	6.14 NTU	-70.4 mV	35.15 ft	200.00 ml/min
8/14/2024 11:33 AM	45:00	7.81 pH	22.89 °C	845.76 µS/cm	0.09 mg/L	4.98 NTU	-78.8 mV	35.15 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 11:13:13 AM

Project: Plant McIntosh AP-1

Operator Name: Hunter Auld

Location Name: MGWA-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.09 ft Total Depth: 53.09 ft Initial Depth to Water: 16.88 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4.3 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 37 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sample time 1153. Sunny 89.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 50	+/- 0.3	
8/13/2024 11:13 AM	00:00	5.58 pH	25.69 °C	49.27 µS/cm	2.71 mg/L	5.00 NTU	167.1 mV	16.88 ft	120.00 ml/min
8/13/2024 11:18 AM	05:00	5.50 pH	25.49 °C	49.73 µS/cm	2.79 mg/L	0.73 NTU	187.4 mV	18.35 ft	120.00 ml/min
8/13/2024 11:23 AM	10:00	5.47 pH	25.76 °C	49.28 µS/cm	2.77 mg/L	1.12 NTU	196.3 mV	18.90 ft	120.00 ml/min
8/13/2024 11:28 AM	15:00	5.45 pH	25.10 °C	48.27 µS/cm	2.66 mg/L	0.90 NTU	201.2 mV	18.25 ft	100.00 ml/min
8/13/2024 11:33 AM	20:00	5.42 pH	26.01 °C	48.12 µS/cm	2.46 mg/L	0.55 NTU	207.3 mV	19.40 ft	100.00 ml/min
8/13/2024 11:38 AM	25:00	5.42 pH	25.78 °C	47.60 µS/cm	2.42 mg/L	1.08 NTU	212.5 mV	19.50 ft	100.00 ml/min
8/13/2024 11:43 AM	30:00	5.41 pH	24.89 °C	47.71 µS/cm	2.39 mg/L	0.75 NTU	217.7 mV	19.80 ft	100.00 ml/min
8/13/2024 11:48 AM	35:00	5.41 pH	25.51 °C	47.67 µS/cm	2.32 mg/L	0.85 NTU	219.9 mV	19.90 ft	100.00 ml/min
8/13/2024 11:53 AM	40:00	5.43 pH	26.09 °C	47.20 µS/cm	2.27 mg/L	0.78 NTU	220.1 mV	19.95 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 1:02:43 PM

Project: Plant McIntosh AP-1

Operator Name: Hunter Auld

Location Name: MGWA-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 45.81 ft Total Depth: 55.81 ft Initial Depth to Water: 21.37 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 50.8 ft Estimated Total Volume Pumped: 11.25 liter Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 5.2 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
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Test Notes:

Sampled time 1347. Sunny 92.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 50	+/- 0.3	
8/13/2024 1:02 PM	00:00	7.64 pH	26.39 °C	234.14 µS/cm	4.18 mg/L	5.00 NTU	49.5 mV	21.37 ft	250.00 ml/min
8/13/2024 1:07 PM	05:00	7.72 pH	24.61 °C	235.71 µS/cm	3.71 mg/L	0.68 NTU	57.7 mV	21.75 ft	250.00 ml/min
8/13/2024 1:12 PM	10:00	7.68 pH	23.71 °C	234.00 µS/cm	3.57 mg/L	0.59 NTU	57.0 mV	21.80 ft	250.00 ml/min
8/13/2024 1:17 PM	15:00	7.66 pH	23.98 °C	233.43 µS/cm	3.35 mg/L	0.52 NTU	54.1 mV	21.80 ft	250.00 ml/min
8/13/2024 1:22 PM	20:00	7.64 pH	23.82 °C	232.15 µS/cm	2.68 mg/L	0.60 NTU	49.0 mV	21.80 ft	250.00 ml/min
8/13/2024 1:27 PM	25:00	7.61 pH	23.69 °C	231.60 µS/cm	1.70 mg/L	0.52 NTU	35.9 mV	21.80 ft	250.00 ml/min
8/13/2024 1:32 PM	30:00	7.61 pH	24.09 °C	228.60 µS/cm	1.41 mg/L	0.58 NTU	19.8 mV	21.80 ft	250.00 ml/min
8/13/2024 1:37 PM	35:00	7.65 pH	24.19 °C	221.82 µS/cm	0.84 mg/L	0.56 NTU	-14.2 mV	21.80 ft	250.00 ml/min
8/13/2024 1:42 PM	40:00	7.67 pH	24.37 °C	220.99 µS/cm	0.72 mg/L	0.45 NTU	-41.9 mV	21.80 ft	250.00 ml/min
8/13/2024 1:47 PM	45:00	7.72 pH	24.24 °C	220.18 µS/cm	0.67 mg/L	0.45 NTU	-55.9 mV	21.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 9:22:38 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

Location Name: MGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.9 ft Total Depth: 52.9 ft Initial Depth to Water: 27.25 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 965658
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Test Notes:

Sampled at 0947. Cloudy 80 degrees. AP1-FB-01 poured here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/14/2024 9:22 AM	00:00	7.68 pH	27.08 °C	267.98 µS/cm	5.99 mg/L	2.84 NTU	149.9 mV	27.74 ft	180.00 ml/min
8/14/2024 9:27 AM	05:00	7.34 pH	22.30 °C	250.92 µS/cm	2.16 mg/L	2.24 NTU	106.0 mV	27.92 ft	180.00 ml/min
8/14/2024 9:32 AM	10:00	7.36 pH	22.11 °C	248.41 µS/cm	1.29 mg/L	1.77 NTU	98.3 mV	28.03 ft	180.00 ml/min
8/14/2024 9:37 AM	15:00	7.36 pH	22.13 °C	241.41 µS/cm	1.02 mg/L	1.41 NTU	94.4 mV	28.11 ft	180.00 ml/min
8/14/2024 9:42 AM	20:00	7.37 pH	22.09 °C	240.79 µS/cm	0.91 mg/L	1.31 NTU	90.8 mV	28.16 ft	180.00 ml/min
8/14/2024 9:47 AM	25:00	7.37 pH	22.10 °C	236.55 µS/cm	0.95 mg/L	1.37 NTU	89.5 mV	28.20 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 12/9/2024 12:51:17 PM

Project: Plant McIntosh AshPond

Operator Name: D. Johnson

Location Name: MGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.75 ft Total Depth: 72.75 ft Initial Depth to Water: 24.72 ft	Pump Type: Perinump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 67.75 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 1101846
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Test Notes:

Sample time 1321. Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
12/9/2024 12:51 PM	00:00	6.58 pH	21.36 °C	452.74 µS/cm	5.83 mg/L	1.88 NTU	91.2 mV	24.72 ft	200.00 ml/min
12/9/2024 12:56 PM	05:00	7.09 pH	20.76 °C	592.75 µS/cm	1.03 mg/L	1.08 NTU	62.8 mV	25.02 ft	200.00 ml/min
12/9/2024 1:01 PM	10:00	7.27 pH	20.85 °C	601.57 µS/cm	0.62 mg/L	1.92 NTU	49.7 mV	25.07 ft	200.00 ml/min
12/9/2024 1:06 PM	15:00	7.37 pH	20.84 °C	600.93 µS/cm	0.48 mg/L	2.06 NTU	39.3 mV	25.11 ft	200.00 ml/min
12/9/2024 1:11 PM	20:00	7.44 pH	20.90 °C	601.08 µS/cm	0.41 mg/L	2.03 NTU	30.3 mV	25.12 ft	200.00 ml/min
12/9/2024 1:16 PM	25:00	7.48 pH	20.93 °C	601.16 µS/cm	0.37 mg/L	2.01 NTU	21.9 mV	25.12 ft	200.00 ml/min
12/9/2024 1:21 PM	30:00	7.51 pH	20.92 °C	598.68 µS/cm	0.34 mg/L	2.03 NTU	17.2 mV	25.12 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 12/9/2024 11:07:03 AM

Project: Plant McIntosh AshPond

Operator Name: D. Johnson

Location Name: MGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.95 ft Total Depth: 54.95 ft Initial Depth to Water: 24.58 ft	Pump Type: Perinump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 49.95 ft Estimated Total Volume Pumped: 12.11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 1101846
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Test Notes:

Sample time 1207. Cloudy, 67 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
12/9/2024 11:07 AM	00:00	6.05 pH	20.31 °C	418.45 µS/cm	3.33 mg/L	32.40 NTU	101.1 mV	24.58 ft	200.00 ml/min
12/9/2024 11:12 AM	05:00	6.00 pH	19.69 °C	349.08 µS/cm	3.64 mg/L	27.70 NTU	87.3 mV	24.92 ft	200.00 ml/min
12/9/2024 11:17 AM	10:00	5.90 pH	19.60 °C	342.98 µS/cm	0.56 mg/L	9.02 NTU	87.4 mV	25.02 ft	200.00 ml/min
12/9/2024 11:22 AM	15:00	5.90 pH	19.52 °C	346.31 µS/cm	0.43 mg/L	8.81 NTU	87.9 mV	25.08 ft	200.00 ml/min
12/9/2024 11:27 AM	20:00	5.95 pH	19.52 °C	351.24 µS/cm	0.37 mg/L	6.05 NTU	87.6 mV	25.08 ft	200.00 ml/min
12/9/2024 11:32 AM	25:00	5.97 pH	19.57 °C	352.74 µS/cm	0.33 mg/L	7.22 NTU	87.6 mV	25.08 ft	200.00 ml/min
12/9/2024 11:37 AM	30:00	6.00 pH	19.72 °C	355.74 µS/cm	0.32 mg/L	6.26 NTU	87.3 mV	25.08 ft	200.00 ml/min
12/9/2024 11:42 AM	35:00	6.04 pH	19.63 °C	359.73 µS/cm	0.30 mg/L	5.14 NTU	87.1 mV	25.08 ft	200.00 ml/min
12/9/2024 11:48 AM	41:21	6.08 pH	19.73 °C	366.14 µS/cm	0.29 mg/L	5.10 NTU	87.4 mV	25.08 ft	200.00 ml/min
12/9/2024 11:52 AM	45:34	6.10 pH	19.85 °C	372.76 µS/cm	0.28 mg/L	5.02 NTU	86.9 mV	25.08 ft	200.00 ml/min
12/9/2024 11:57 AM	50:34	6.12 pH	19.95 °C	366.52 µS/cm	0.27 mg/L	4.98 NTU	87.9 mV	25.08 ft	200.00 ml/min
12/9/2024 12:02 PM	55:34	6.14 pH	20.12 °C	368.74 µS/cm	0.26 mg/L	4.94 NTU	87.4 mV	25.08 ft	200.00 ml/min
12/9/2024 12:07 PM	01:00:34	6.18 pH	20.17 °C	372.60 µS/cm	0.25 mg/L	4.89 NTU	87.1 mV	25.08 ft	200.00 ml/min

Field Instrumentation Calibration Form



Site Name: Plant McIntosh Ash Pond

Date: 8-13-24

Calibrated By: T. Goble

Field Conditions: Sunny 93°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Smartroll	965654
Turbidity Meter	HACH 2000Q	22040D000603

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	4GD1667	4/26	PINE
pH (SU)	10.00	4GCC0600	3/26	PINE
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	PINE
ORP (mV)	240.0	4GE1370	2/25	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: <u>1440</u>		Time Finish: <u>1500</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.04	36.04	± 10%	EPA 2023
pH (SU)	4.00	4.07	33.08	± 0.1	GWMP
pH (SU)	7.00	6.99	32.43	± 0.1	GWMP
pH (SU)	10.00	9.91	32.64	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	34.23	± 10% of standard	NA
ORP (mV)	240.0	233.2	33.28	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.21	± 10% of standard	EPA 2023
	10	10.1		
	20	20.2		
	100	99.4		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	NA		± 0.1	GWMP
pH (SU)	7.00				
pH (SU)	10.00				
Specific Conductance (µS/cm)	1,413				

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

NA - calibrated at 1500 (switched Smartrolls)

Field Instrumentation Calibration Form



Site Name: Plant McIntosh Ash Pond

Date: 8-13-21

Calibrated By: Taylor Goble

Field Conditions: Cloudy 78°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Smartroll	822678
Turbidity Meter	HACH 2000	220101500003

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	4GD1667	4/26	PINE
pH (SU)	10.00	4GC0600	3/26	PINE
Specific Conductance (µS/cm)	1,413	3GJ0127	10/24	PINE
ORP (mV)	240.0	4GE1370	2/25	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: <u>0830</u>		Time Finish: <u>0850</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.43	27.99	± 10%	EPA 2023
pH (SU)	4.00	4.01	29.02	± 0.1	GWMP
pH (SU)	7.00	6.99	29.79	± 0.1	GWMP
pH (SU)	10.00	9.95	28.27	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	27.97	± 10% of standard	NA
ORP (mV)	240.0	238.4	27.73	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.36	± 10% of standard	EPA 2023
	10	10.1		
	20	20.5		
	100	99.6		

Calibration Check					
Time Start: <u>1315</u>		Time Finish: <u>1330</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.04	26.99	± 0.1	GWMP
pH (SU)	7.00	7.02	27.12	± 0.1	GWMP
pH (SU)	10.00	9.98	27.35	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1441	27.54	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.21	± 10% of standard	EPA 2023
	10	10.1		
	20	20.2		
	100	99.4		

Notes:

Field Instrumentation Calibration Form



Site Name: Plant McIntosh Ash Pond

Date: 8-14-24

Calibrated By: T. Goble

Field Conditions: Cloudy 78°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	SmacTroll	965658
Turbidity Meter	HACH 2000Q	22080000803

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4GB1376	2/26	PINE
pH (SU)	7.00	3GJ0919	10/25	PINE
pH (SU)	10.00	3GL0168	12/25	PINE
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	PINE
ORP (mV)	240.0	3GL0404	9/24	PINE
Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	A4172	9/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: <u>0825</u>		Time Finish: <u>0845</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	104.31	26.35	± 10%	EPA 2023
pH (SU)	4.00	4.01	28.22	± 0.1	GWMP
pH (SU)	7.00	6.99	28.40	± 0.1	GWMP
pH (SU)	10.00	9.95	28.59	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1431	27.61	± 10% of standard	NA
ORP (mV)	240.0	241.2	28.42	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.36	± 10% of standard	EPA 2023
	10	10.2		
	20	20.4		
	100	100		

Calibration Check					
Time Start <u>1230</u>		Time Finish <u>1245</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.01	28.45	± 0.1	GWMP
pH (SU)	7.00	6.99	28.03	± 0.1	GWMP
pH (SU)	10.00	9.95	28.27	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1440	28.61	± 10% of standard	EPA 2023

Recalibrated

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.27	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	101		

Notes: Recalibrated pH at 1230

Field Instrumentation Calibration Form



Site Name: Plant McIntosh AP-1

Date: 8-13-24

Calibrated By: H. Auld

Field Conditions: Sunny, 80s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Aquatroll 500</u>	<u>863127</u>
Turbidity Meter	<u>HACH 2100Q</u>	<u>1160406049767</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	<u>4GB1376</u>	<u>02/26</u>	PINE
pH (SU)	7.00	<u>4GC0526</u>	<u>03/26</u>	PINE
pH (SU)	10.00	<u>4GC0600</u>	<u>03/26</u>	PINE
Specific Conductance (µS/cm)	1,413	<u>3GL0664</u>	<u>12/24</u>	PINE
ORP (mV)	240.0	<u>4GE1370</u>	<u>02/25</u>	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	<u>A4172</u>	<u>09/25</u>	HACH
	20	<u>A4183</u>	<u>10/25</u>	HACH
	100	<u>A4179</u>	<u>10/25</u>	HACH

Calibration					
Time Start: <u>0915</u>		Time Finish: <u>0945</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>100.0%</u>	<u>28.8</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.01</u>	<u>29.8</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.99</u>	<u>30.5</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.95</u>	<u>30.5</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1413</u>	<u>30.1</u>	± 10% of standard	NA
ORP (mV)	240.0	<u>222</u>	<u>30.4</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.3</u>	± 10% of standard	EPA 2023
	10	<u>9.3</u>		
	20	<u>20.8</u>		
	100	<u>104</u>		

Calibration Check					
Time Start <u>1420</u>		Time Finish <u>1430</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>3.99</u>	<u>34.1</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.01</u>	<u>34.2</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.02</u>	<u>34.2</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1441</u>	<u>34.1</u>	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.3</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>19.2</u>		
	100	<u>103</u>		

Notes:

Field Instrumentation Calibration Form



Site Name: Plant McIntosh AP-1

Date: 8-14-24

Calibrated By: H. Auld

Field Conditions: cloudy, 79

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Aquatroll 500</u>	<u>863127</u>
Turbidity Meter	<u>HACH 2100Q</u>	<u>16040C049767</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	<u>4GB1376</u>	<u>02/26</u>	PINE
pH (SU)	7.00	<u>4GC0526</u>	<u>03/26</u>	PINE
pH (SU)	10.00	<u>4GC0600</u>	<u>03/26</u>	PINE
Specific Conductance (µS/cm)	1,413	<u>3GL0604</u>	<u>12/24</u>	PINE
ORP (mV)	240.0	<u>4GE1370</u>	<u>02/25</u>	PINE
Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	<u>A4172</u>	<u>09/25</u>	HACH
	20	<u>A4183</u>	<u>10/25</u>	HACH
	100	<u>A4179</u>	<u>10/25</u>	HACH

Calibration					
Time Start: <u>1000</u>		Time Finish: <u>1020</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>100%</u>	<u>27.7</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.01</u>	<u>28.2</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.99</u>	<u>28.1</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.95</u>	<u>28.3</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1413</u>	<u>27.7</u>	± 10% of standard	NA
ORP (mV)	240.0	<u>224</u>	<u>28.9</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.3</u>	± 10% of standard	EPA 2023
	10	<u>9.97</u>		
	20	<u>20.3</u>		
	100	<u>98</u>		

Calibration Check					
Time Start: <u>1350</u>		Time Finish: <u>1400</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>4.01</u>	<u>34.2</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>34.3</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.98</u>	<u>34.2</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1486</u>	<u>34.4</u>	± 10% of standard	EPA 2023

1486 (HA)

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.3</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>19.8</u>		
	100	<u>102</u>		

Notes:

Field Instrumentation Calibration Form



Site Name: Plant McIntosh AP-1

Date: 12/9/24

Calibrated By: D. Johnson

Field Conditions: 60°F, Cloudy

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Troll	1101846
Turbidity Meter	HACH	24010000462

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	new DI —
pH (SU)	4.00	46627	5/26	Pine
pH (SU)	7.00	4601667	4/26	
pH (SU)	10.00	460600	4/26	
Specific Conductance (µS/cm)	1,413	460677	5/25	
ORP (mV)	240.0	461370	2/25	

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	new DI —
	10	A4029	5/25	Pine
	20	A3363	4/25	Pine
	100	A4002	4/25	Pine

Calibration					
Time Start: <u>1030</u>		Time Finish: <u>1044</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	104.94	16.29	± 10%	EPA 2023
pH (SU)	4.00	4.00	16.82	± 0.1	GWMP
pH (SU)	7.00	7.04	16.87	± 0.1	GWMP
pH (SU)	10.00	10.1	16.70	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1411	25.00	± 10% of standard	NA
ORP (mV)	240.0	240.2	11.54	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.22	± 10% of standard	EPA 2023
	10	10.5		
	20	20.7		
	100	100		

Calibration Check					
Time Start: <u>1237</u>		Time Finish: <u>1243</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.00	18.32	± 0.1	GWMP
pH (SU)	7.00	7.01	18.30	± 0.1	GWMP
pH (SU)	10.00	10.04	18.34	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1414	19.27	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.20	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	101		

Notes:

Well Inspection

Site Name: Plant McIntosh AP1

Date: 8/12/2024

Permit Number: 051-011D(CCR)

Field Conditions: 93 °F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
MGWC-1	Yes	Yes	No	Yes
MGWC-2	Yes	Yes	No	Yes
MGWC-3	Yes	Yes	No	Yes
MGWC-4	Yes	Yes	No	Yes
MGWA-5	Yes	Yes	No	Yes
MGWA-6	Yes	Yes	No	Yes
MGWA-6A	Yes	Yes	No	Yes
MGWC-7	Yes	Yes	No	Yes
MGWC-8	Yes	Yes	No	Yes
MGWA-9	Yes	Yes	No	Yes
MGWA-10	Yes	Yes	No	Yes
MGWA-11	Yes	Yes	No	Yes
MGWC-12	Yes	Yes	No	Yes
PZ-13	Yes	Yes	No	Yes
PZ-14	Yes	Yes	No	Yes
PZ-15	Yes	Yes	No	Yes
PZ-16	Yes	Yes	No	Yes
PZ-17	Yes	Yes	No	Yes
PZ-18	Yes	Yes	No	Yes
MGWC-19	Yes	Yes	No	Yes
MGWC-20	Yes	Yes	No	Yes
MGWC-21	Yes	Yes	No	Yes
MGWC-22	Yes	Yes	No	Yes
MGWC-23	Yes	Yes	No	Yes
MGWA-24	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant McIntosh AP1

Date: 8/12/2024

Permit Number: 051-011D(CCR)

Field Conditions: 93 °F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
MGWC-1	Yes	Yes	Yes	Yes	Yes
MGWC-2	Yes	Yes	Yes	Yes	Yes
MGWC-3	Yes	Yes	Yes	Yes	Yes
MGWC-4	Yes	Yes	Yes	Yes	Yes
MGWA-5	Yes	Yes	Yes	Yes	Yes
MGWA-6	Yes	Yes	Yes	Yes	Yes
MGWA-6A	Yes	Yes	Yes	Yes	Yes
MGWC-7	Yes	Yes	Yes	Yes	Yes
MGWC-8	Yes	Yes	Yes	Yes	Yes
MGWA-9	Yes	Yes	Yes	Yes	Yes
MGWA-10	Yes	Yes	Yes	Yes	Yes
MGWA-11	Yes	Yes	Yes	Yes	Yes
MGWC-12	Yes	Yes	Yes	Yes	Yes
PZ-13	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
MGWC-19	Yes	Yes	Yes	Yes	Yes
MGWC-20	Yes	Yes	Yes	Yes	Yes
MGWC-21	Yes	Yes	Yes	Yes	Yes
MGWC-22	Yes	Yes	Yes	Yes	Yes
MGWC-23	Yes	Yes	Yes	Yes	Yes
MGWA-24	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant McIntosh AP1

Date: 8/12/2024

Permit Number: 051-011D(CCR)

Field Conditions: 93 °F

Well ID:	Corrective actions as needed, by date:
MGWC-1	
MGWC-2	
MGWC-3	Small tree down on pad - site will remove
MGWC-4	
MGWA-5	
MGWA-6	
MGWA-6A	
MGWC-7	
MGWC-8	
MGWA-9	
MGWA-10	
MGWA-11	
MGWC-12	
PZ-13	
PZ-14	
PZ-15	
PZ-16	Overgrown - site will mainatin
PZ-17	
PZ-18	
MGWC-19	
MGWC-20	
MGWC-21	
MGWC-22	Redrilled weep hole
MGWC-23	
MGWA-24	

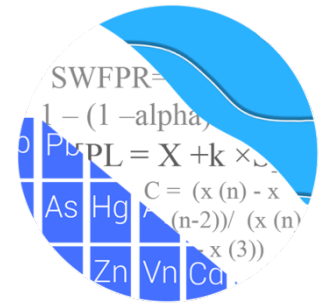
APPENDIX B

Statistical Analysis Reports

APPENDIX B

*Statistical Analysis Reports
February 2024 Monitoring Event*

GROUNDWATER STATS CONSULTING



August 30, 2024

Southern Company Services
Attn: Mr. Trey Singleton
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant McIntosh Ash Pond 1 (AP-1)
Statistical Analysis February 2024

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 Semi-Annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant McIntosh AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

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

- **Upgradient well:** MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
- **Downgradient wells:** MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated 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 were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Both intrawell and interwell prediction limits, combined with a 1-of-2 resample plan, were originally recommended. 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. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

Statistical Analysis of Appendix III Parameters – February 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. When values in background have been flagged as outliers, they may be seen in a lighter font and as a disconnected symbol on the graphs. No additional values were flagged as outliers during this analysis and a summary of flagged values follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. Data from upgradient wells were reviewed for new outliers. No new measurements were flagged and no changes were made to previously flagged data. The February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary.

If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Calcium: MGWC-8
- Chloride: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Fluoride: MGWC-12
- Sulfate: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-1, MGWC-2, MGWC-3, and MGWC-8

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). 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, which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing

- Boron: MGWC-1, MGWC-7 and MGWC-8
- Calcium: MGWC-8
- Chloride: MGWC-8
- Sulfate: MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-8

Decreasing

- Boron: MGWA-6 (upgradient) and MGWC-2
- Calcium: MGWA-10 (upgradient)
- Chloride: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-6A (upgradient), MGWC-2, and MGWC-7
- Sulfate: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-10 (upgradient), and MGWC-2
- TDS: MGWC-2

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Analysis of Appendix IV Parameters – February 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

During previous analyses, high concentrations from May 2016 through April 2017 for arsenic at upgradient well MGWA-6 were deselected prior to calculating an interwell upper tolerance limit. These historical measurements were considerably higher than more recent measurements; and this step results in a more conservative (i.e., lower) statistical limit from a regulatory perspective. All background data will be re-evaluated for upgradient wells during the next analysis. A summary of these background data ranges follows this letter. No additional values were flagged as outliers during this analysis and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through the current sample event for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all available data through February 2024 (Figure H).

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the largest and smallest order statistics depending on the sample size as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

- Cobalt: MGWC-7 and MGWC-8
- Lithium: MGWC-7

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter and a statistically significant decreasing trend was identified for cobalt at MGWC-7.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant McIntosh AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner
Senior Statistician



Andrew Collins
Project Manager

Date Ranges

Date: 3/19/2024 11:50 AM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Arsenic (mg/L)

MGWA-6 overall:3/29/2018-2/6/2024

100% Non-Detects: Appendix IV Downgradient

Analysis Run 3/15/2024 2:55 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Antimony (mg/L)
MGWC-1, MGWC-2, MGWC-8

Beryllium (mg/L)
MGWC-12, MGWC-2, MGWC-7

Cadmium (mg/L)
MGWC-12, MGWC-3

Lead (mg/L)
MGWC-1, MGWC-3

Mercury (mg/L)
MGWC-1

Molybdenum (mg/L)
MGWC-2, MGWC-3

Thallium (mg/L)
MGWC-7

Appendix III - Interwell Prediction Limit - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/6/2024	1.6	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/7/2024	1.9	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/7/2024	0.59	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/6/2024	2.4	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/7/2024	5.1	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/7/2024	120	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	9.7	n/a	2/6/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-2	9.7	n/a	2/7/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-3	9.7	n/a	2/7/2024	11	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-7	9.7	n/a	2/6/2024	10	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-8	9.7	n/a	2/7/2024	13	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/7/2024	0.29	Yes	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.53	n/a	2/6/2024	140	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.53	n/a	2/7/2024	150	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.53	n/a	2/7/2024	94	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.53	n/a	2/6/2024	200	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.53	n/a	2/7/2024	310	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/6/2024	420	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/7/2024	450	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	2/7/2024	370	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/7/2024	590	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limit - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/6/2024	1.6	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-12	0.18	n/a	2/7/2024	0.023J	No	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/7/2024	1.9	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/7/2024	0.59	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/6/2024	2.4	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/7/2024	5.1	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	2/6/2024	110	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-12	110	n/a	2/7/2024	29	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-2	110	n/a	2/7/2024	110	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	2/7/2024	100	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	2/6/2024	56	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/7/2024	120	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	9.7	n/a	2/6/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-12	9.7	n/a	2/7/2024	4.9	No	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-2	9.7	n/a	2/7/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-3	9.7	n/a	2/7/2024	11	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-7	9.7	n/a	2/6/2024	10	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-8	9.7	n/a	2/7/2024	13	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	2/6/2024	0.12	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/7/2024	0.29	Yes	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	2/7/2024	0.081J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	2/7/2024	0.089J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	2/6/2024	0.17	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	2/7/2024	0.063J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
pH (SU)	MGWC-1	8.12	5	2/6/2024	7.47	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-12	8.12	5	2/7/2024	6.83	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-2	8.12	5	2/7/2024	7.71	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-3	8.12	5	2/7/2024	7.49	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-7	8.12	5	2/6/2024	7.81	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-8	8.12	5	2/7/2024	7	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.53	n/a	2/6/2024	140	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-12	16.53	n/a	2/7/2024	8.2	No	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.53	n/a	2/7/2024	150	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.53	n/a	2/7/2024	94	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.53	n/a	2/6/2024	200	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.53	n/a	2/7/2024	310	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/6/2024	420	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-12	360	n/a	2/7/2024	200	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/7/2024	450	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	2/7/2024	370	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	2/6/2024	350	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/7/2024	590	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.01726	-167	-92	Yes	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1033	94	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2444	-173	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	182	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5131	113	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.359	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.34	181	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.166	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.063	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.289	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.352	-192	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4746	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.4216	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-116	-92	Yes	22	36.36	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.6093	-165	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.504	-183	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-20.86	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.718	123	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.591	116	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	31.03	109	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-29.01	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-8	57.71	119	92	Yes	22	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MGWA-10 (bg)	0	53	92	No	22	68.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	3	92	No	22	54.55	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-5 (bg)	0	-13	-92	No	22	77.27	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-6 (bg)	-0.01726	-167	-92	Yes	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-6A (bg)	0	-4	-38	No	12	58.33	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1033	94	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2444	-173	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.07362	-68	-92	No	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	182	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5131	113	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.359	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-11 (bg)	0.3609	39	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-5 (bg)	-0.1967	-54	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	47	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	2.531	31	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.34	181	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-10 (bg)	0.006902	18	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.066	-53	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.166	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.063	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.289	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	-0.06926	-83	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.352	-192	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-3	0	-2	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4746	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.4216	129	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-10 (bg)	0	-27	-98	No	23	69.57	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-11 (bg)	-0.003476	-34	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-5 (bg)	-0.003389	-74	-98	No	23	17.39	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-6 (bg)	-0.004519	-74	-98	No	23	26.09	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-6A (bg)	0.0005219	2	38	No	12	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWC-12	-0.005051	-41	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-116	-92	Yes	22	36.36	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-11 (bg)	0.02237	29	92	No	22	27.27	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.6093	-165	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.504	-183	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6A (bg)	0.1382	8	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.843	55	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-20.86	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.718	123	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.591	116	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	31.03	109	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-2.285	-41	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	5.007	56	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-5 (bg)	0	20	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-0.7074	-31	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	3	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-1	10.26	62	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-29.01	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-3	5.524	60	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-8	57.71	119	92	Yes	22	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:45 AM

<u>Constituent</u>	<u>Upper Lim.</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>
Antimony (mg/L)	0.002	91	n/a	n/a	92.31	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.014	101	n/a	n/a	34.65	n/a	n/a	0.005625	NP Inter(normality)
Barium (mg/L)	0.13	109	n/a	n/a	0	n/a	n/a	0.003731	NP Inter(normality)
Beryllium (mg/L)	0.0025	99	n/a	n/a	94.95	n/a	n/a	0.006232	NP Inter(NDs)
Cadmium (mg/L)	0.0025	109	n/a	n/a	99.08	n/a	n/a	0.003731	NP Inter(NDs)
Chromium (mg/L)	0.0066	99	n/a	n/a	72.73	n/a	n/a	0.006232	NP Inter(NDs)
Cobalt (mg/L)	0.0025	108	n/a	n/a	73.15	n/a	n/a	0.003928	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.224	110	0.5999	0.3267	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	104	n/a	n/a	28.85	n/a	n/a	0.004822	NP Inter(normality)
Lead (mg/L)	0.001	91	n/a	n/a	94.51	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.037	109	n/a	n/a	30.28	n/a	n/a	0.003731	NP Inter(normality)
Mercury (mg/L)	0.0002	99	n/a	n/a	96.97	n/a	n/a	0.006232	NP Inter(NDs)
Molybdenum (mg/L)	0.015	99	n/a	n/a	65.66	n/a	n/a	0.006232	NP Inter(NDs)
Selenium (mg/L)	0.005	79	n/a	n/a	92.41	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	0.001	99	n/a	n/a	84.85	n/a	n/a	0.006232	NP Inter(NDs)

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.22	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

Confidence Interval Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	MGWC-7	0.009466	0.006526	0.006	Yes 24	0.007996	0.002881	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01469	0.006516	0.006	Yes 24	0.0106	0.00801	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.13	0.112	0.04	Yes 24	0.1226	0.01885	0	None	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No 20	0.001895	0.0003692	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.0003	0.006	No 20	0.001915	0.0003801	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No 20	0.001924	0.0003329	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002713	0.001892	0.014	No 24	0.002303	0.0008047	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-12	0.001073	0.0006865	0.014	No 24	0.001012	0.0003519	29.17	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No 24	0.0009204	0.0001914	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001781	0.00143	0.014	No 24	0.001605	0.0003447	4.167	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.0007943	0.0005196	0.014	No 24	0.0008421	0.0002816	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-8	0.001	0.00098	0.014	No 24	0.0009367	0.0002479	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	MGWC-1	0.11	0.096	2	No 24	0.1072	0.01565	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06406	0.0506	2	No 24	0.05733	0.01319	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-2	0.05315	0.04755	2	No 24	0.05035	0.005486	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.1574	0.1429	2	No 24	0.1501	0.01417	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.015	0.011	2	No 24	0.014	0.006817	4.167	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-8	0.0422	0.03442	2	No 24	0.03889	0.008528	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No 22	0.002395	0.0004946	95.45	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No 22	0.0024	0.0004669	95.45	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.001128	0.0005715	0.004	No 22	0.001245	0.0007933	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No 24	0.002021	0.0009567	79.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002734	0.001084	0.005	No 24	0.00216	0.001886	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No 24	0.002227	0.0007381	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.001836	0.0007055	0.005	No 24	0.001672	0.001186	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0036	0.0014	0.1	No 22	0.002045	0.00037	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No 22	0.003245	0.005761	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0033	0.002	0.1	No 22	0.002059	0.0002772	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No 22	0.002045	0.0002132	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No 22	0.002009	0.0003584	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No 22	0.002018	0.0002839	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.0004	0.006	No 24	0.001723	0.001041	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No 24	0.002361	0.0005112	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.003115	0.002171	0.006	No 24	0.002643	0.0009249	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00068	0.00051	0.006	No 24	0.0007529	0.0004596	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.009466	0.006526	0.006	Yes 24	0.007996	0.002881	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01469	0.006516	0.006	Yes 24	0.0106	0.00801	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.722	1.337	5	No 25	1.53	0.3866	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.7469	0.4705	5	No 24	0.6087	0.2708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7803	0.5019	5	No 24	0.6411	0.2728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.768	1.406	5	No 25	1.587	0.3631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.347	0.9917	5	No 24	1.169	0.3477	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.885	1.328	5	No 24	1.606	0.5459	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2218	0.1398	4	No 23	0.1808	0.0784	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-12	0.2538	0.2028	4	No 23	0.2225	0.05854	0	None	x^2	0.01	Param.
Fluoride (mg/L)	MGWC-2	0.2	0.076	4	No 23	0.1246	0.05819	30.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-3	0.2	0.082	4	No 23	0.1234	0.05749	26.09	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3173	0.2109	4	No 23	0.2641	0.1018	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.1058	0.07179	4	No 23	0.08878	0.03248	13.04	None	No	0.01	Param.
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No 20	0.000955	0.0002012	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No 20	0.0009635	0.0001632	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No 20	0.000885	0.0002815	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No 20	0.000961	0.0001744	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	MGWC-1	0.01201	0.01	0.04	No 24	0.011	0.001963	4.167	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02255	0.01698	0.04	No 24	0.01977	0.005461	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0065	0.0051	0.04	No 24	0.006474	0.00409	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01322	0.01122	0.04	No 24	0.01222	0.00196	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.13	0.112	0.04	Yes 24	0.1226	0.01885	0	None	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-8	0.03573	0.02341	0.04	No 24	0.02957	0.01207	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No 22	0.0001891	0.00003536	90.91	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No 22	0.0001899	0.00003284	90.91	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No 22	0.0001941	0.00002772	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No 22	0.0001945	0.00002558	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00026	0.00014	0.002	No 23	0.0004111	0.0008219	34.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-1	0.0021	0.0011	0.1	No 22	0.01483	0.02903	18.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No 22	0.0113	0.006195	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No 22	0.01448	0.00245	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No 22	0.01449	0.002409	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No 18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No 18	0.004737	0.001115	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No 18	0.004747	0.001072	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No 18	0.004747	0.001075	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No 18	0.004737	0.001117	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No 18	0.004077	0.00183	77.78	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No 22	0.0008093	0.0003622	77.27	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No 22	0.0009282	0.0002332	90.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No 22	0.0009641	0.0001684	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No 22	0.0009332	0.0002187	90.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00018	0.002	No 22	0.0005086	0.0003885	36.36	None	No	0.01	NP (normality)

Appendix IV Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/15/2024, 3:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	MGWC-7	-0.0007522	-118	-81	Yes	24	0	n/a	n/a	0.05	NP

Appendix IV Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/15/2024, 3:07 PM

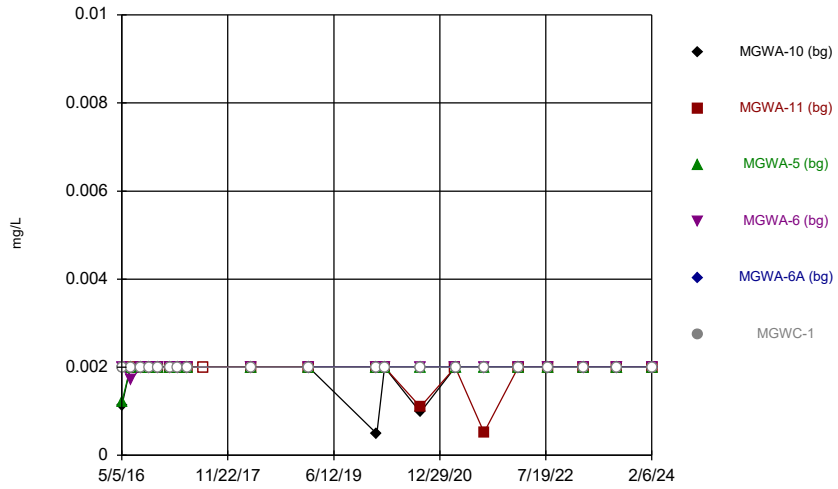
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	MGWA-10 (bg)	0	6	81	No	24	87.5	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-11 (bg)	0	23	81	No	24	95.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-5 (bg)	0	20	76	No	23	95.65	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-6 (bg)	0	-8	-81	No	24	45.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-6A (bg)	0.00003846	10	34	No	13	15.38	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWC-7	-0.0007522	-118	-81	Yes	24	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWC-8	0.0016	43	81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-10 (bg)	0.000008951	5	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-11 (bg)	0.0011	73	81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-5 (bg)	0.0000504	20	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	27	81	No	24	91.67	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-6A (bg)	0	-32	-34	No	13	69.23	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWC-7	0	30	81	No	24	0	n/a	n/a	0.05	NP

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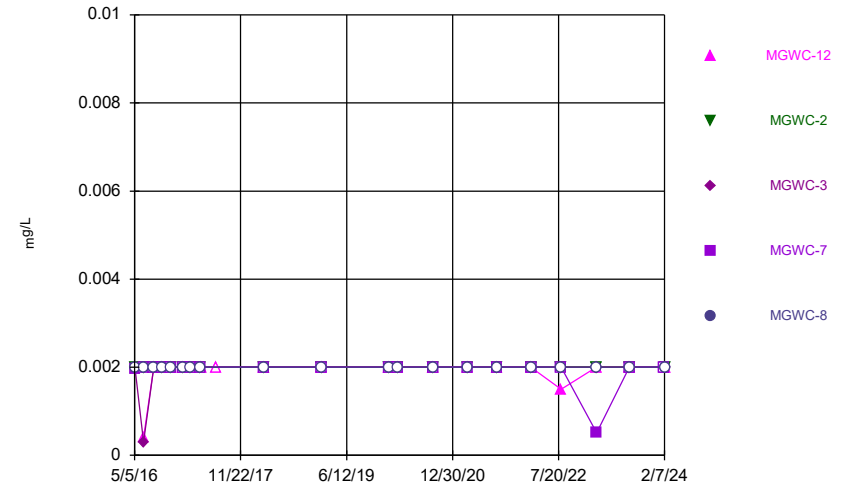
FIGURE A.

Time Series



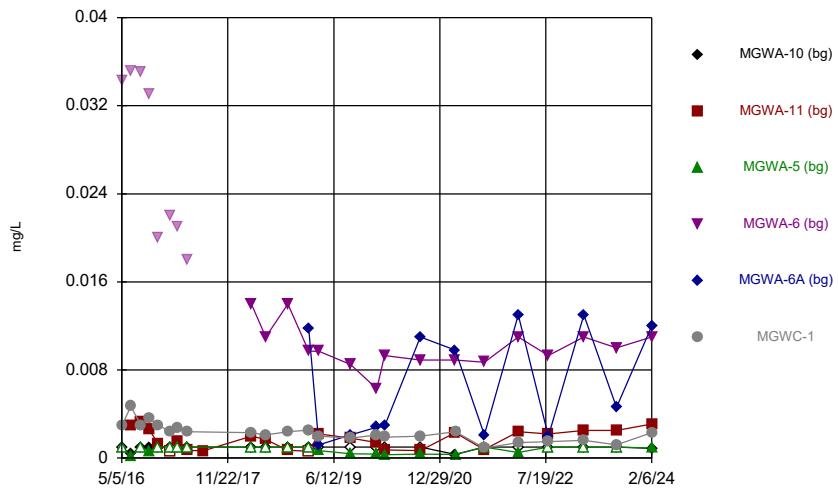
Constituent: Antimony Analysis Run 3/19/2024 12:04 PM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



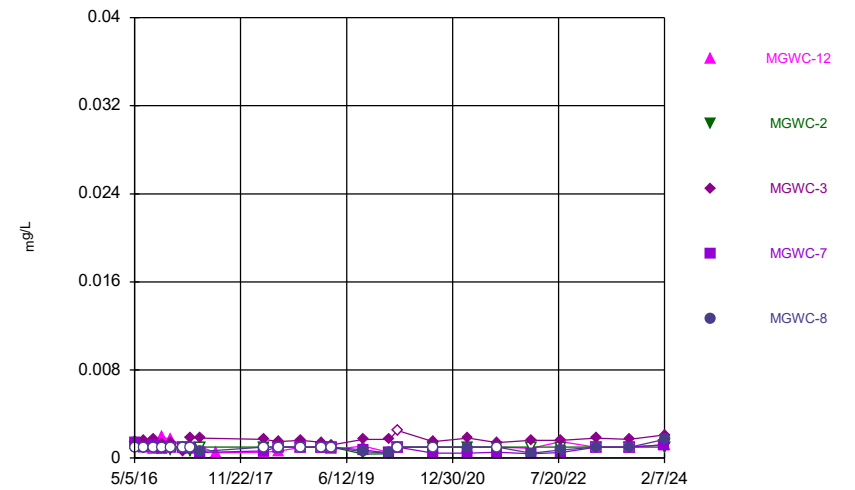
Constituent: Antimony Analysis Run 3/19/2024 12:04 PM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



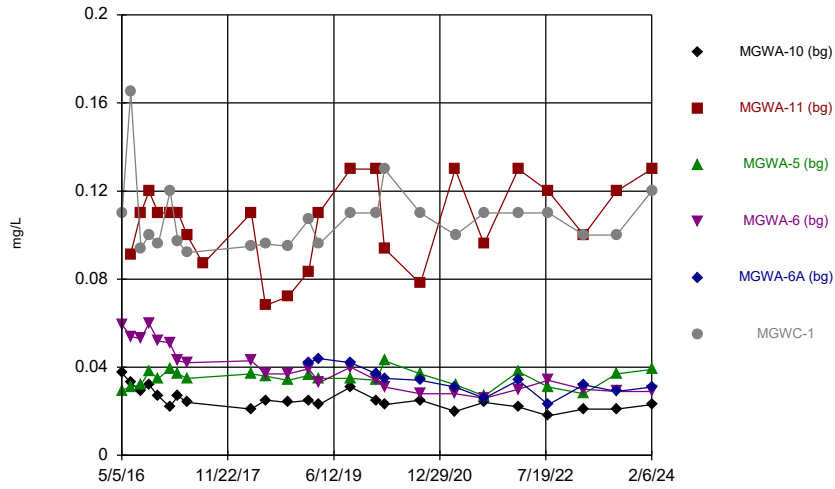
Constituent: Arsenic Analysis Run 3/19/2024 12:04 PM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



Constituent: Arsenic Analysis Run 3/19/2024 12:04 PM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

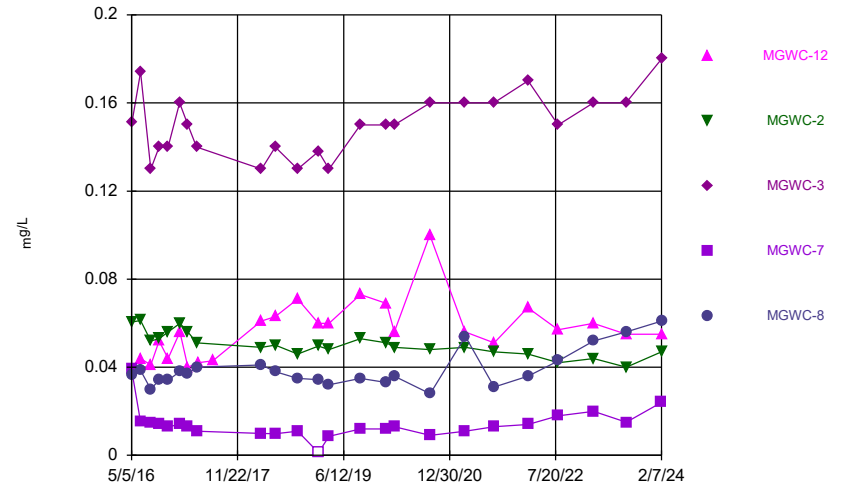
Time Series



Constituent: Barium Analysis Run 3/15/2024 3:13 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Hollow symbols indicate censored values.

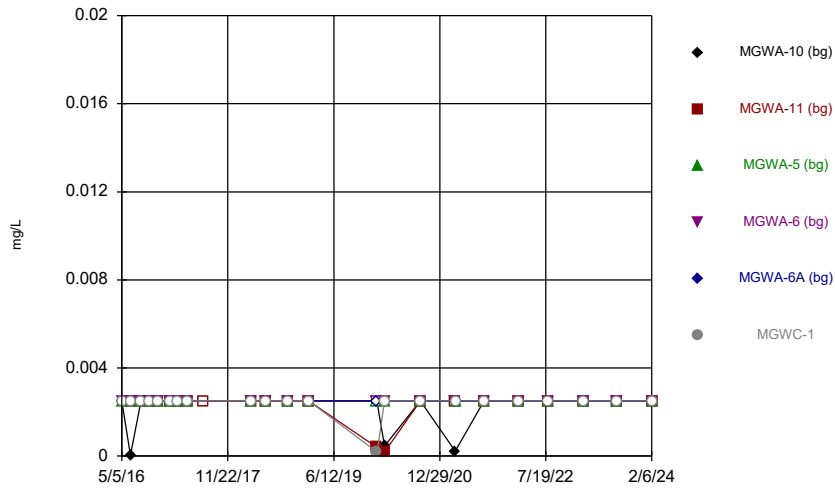
Time Series



Constituent: Barium Analysis Run 3/15/2024 3:13 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Hollow symbols indicate censored values.

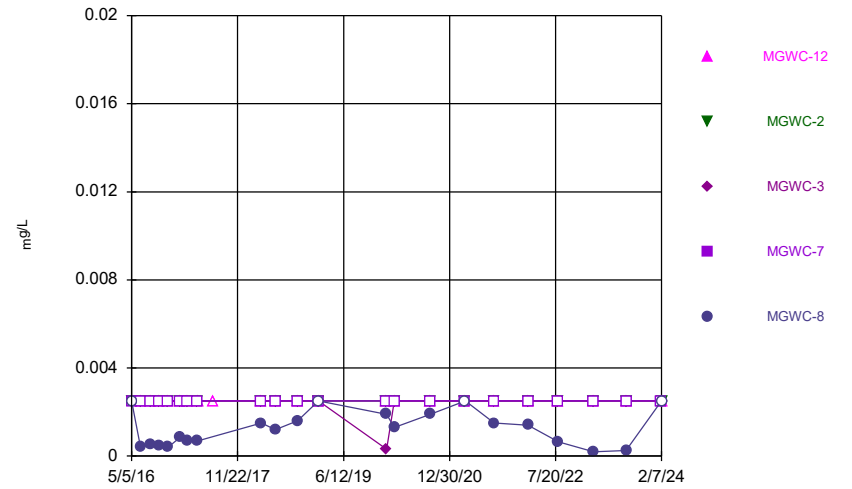
Time Series



Constituent: Beryllium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

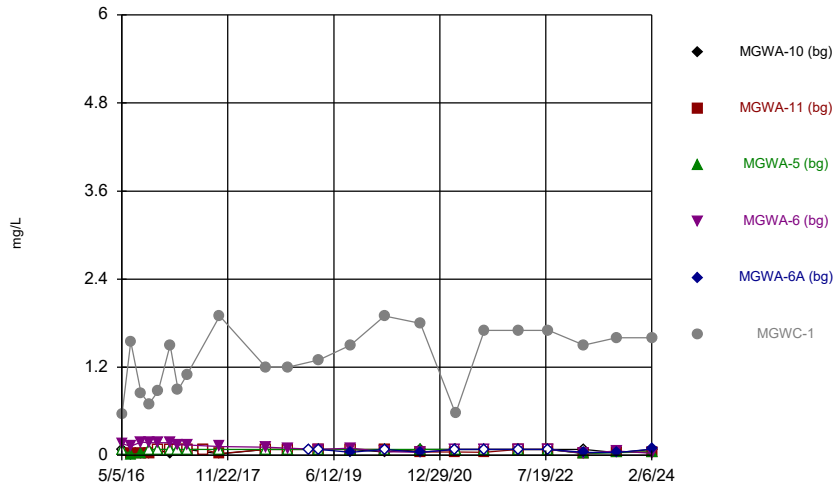
Hollow symbols indicate censored values.

Time Series



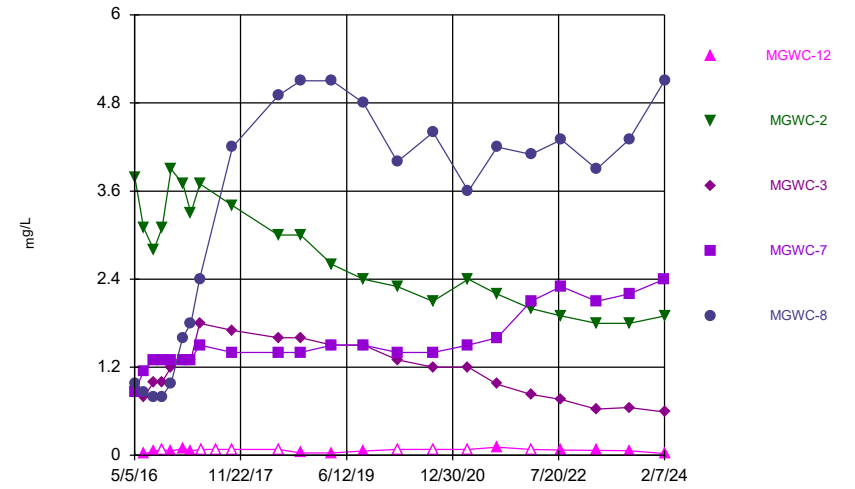
Constituent: Beryllium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



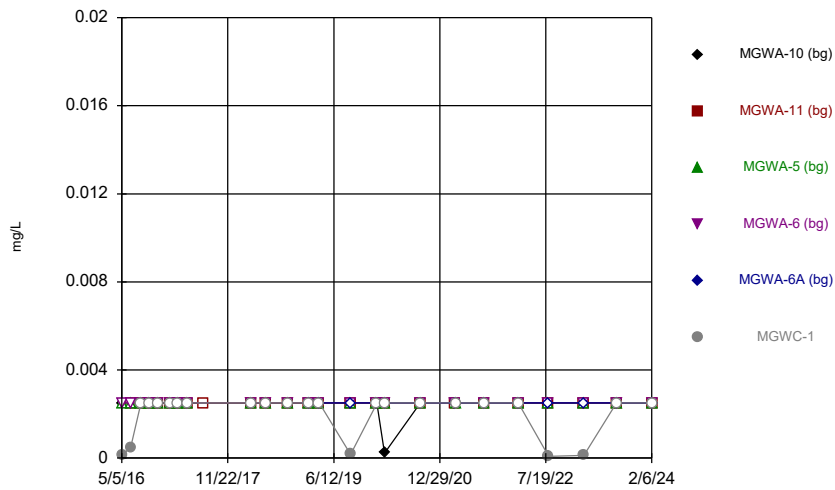
Constituent: Boron Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



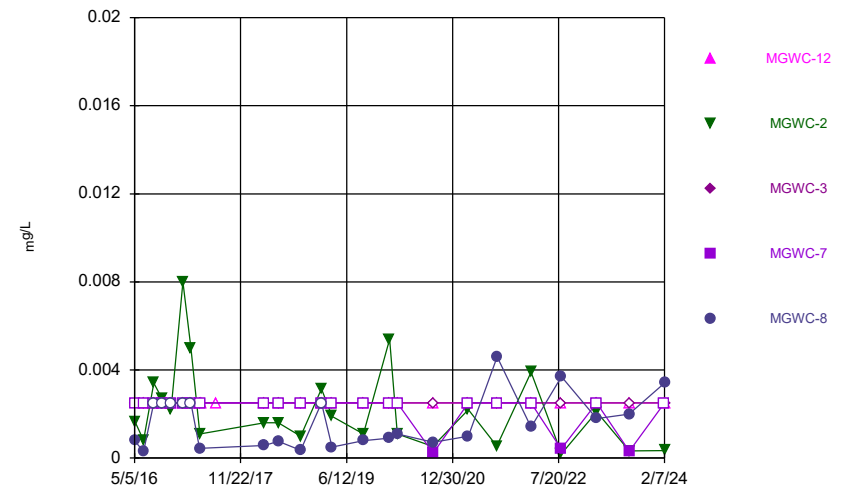
Constituent: Boron Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



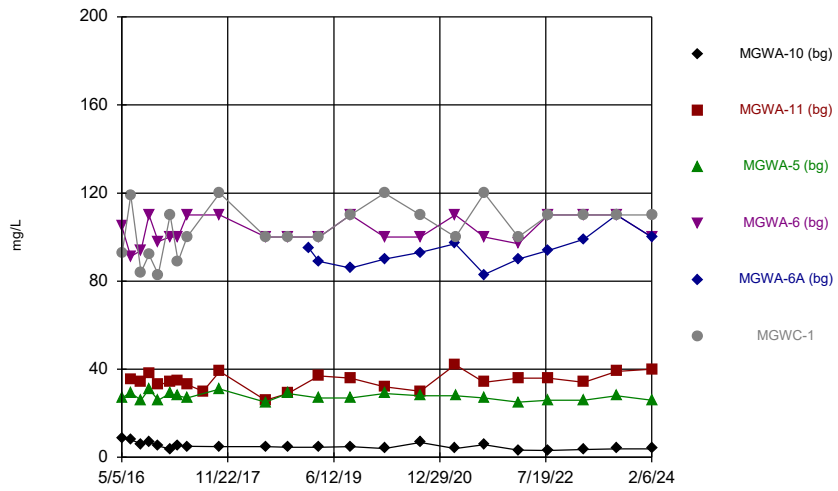
Constituent: Cadmium Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



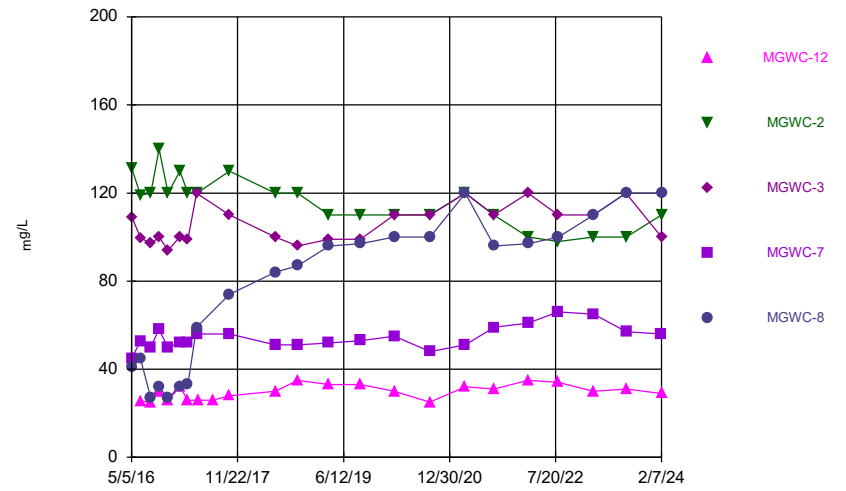
Constituent: Cadmium Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



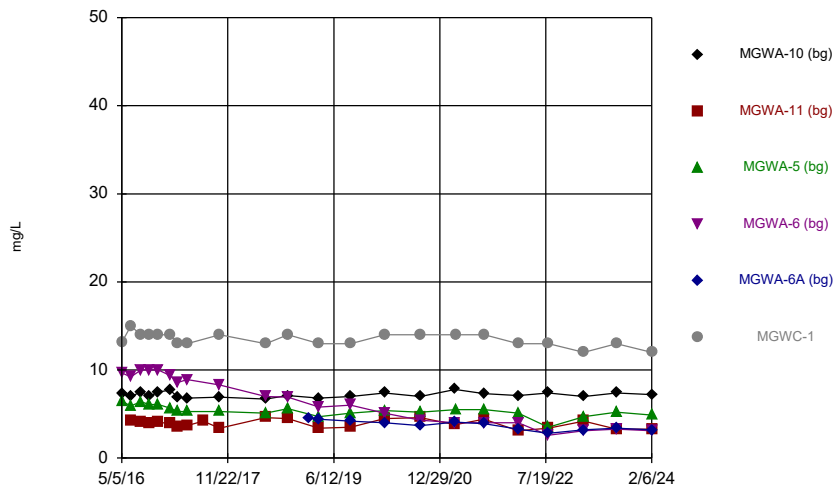
Constituent: Calcium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



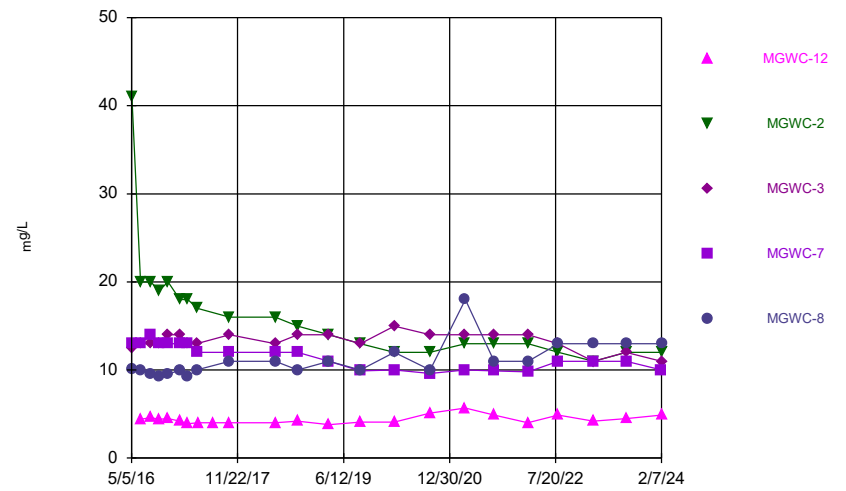
Constituent: Calcium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



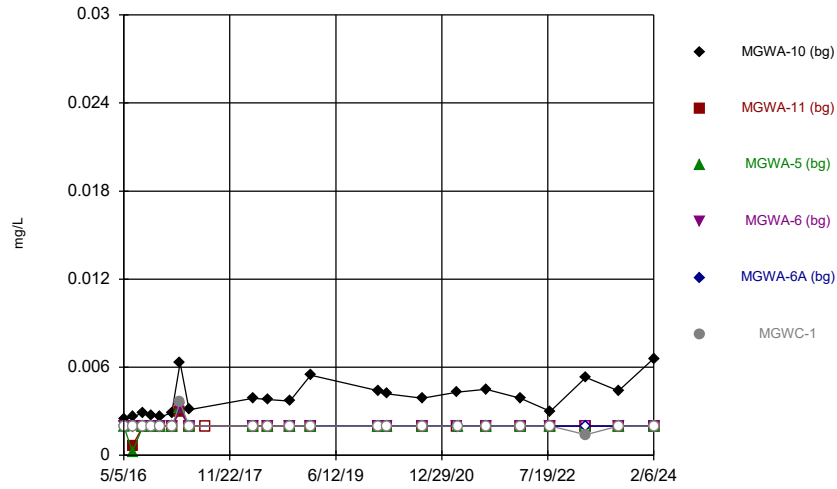
Constituent: Chloride Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



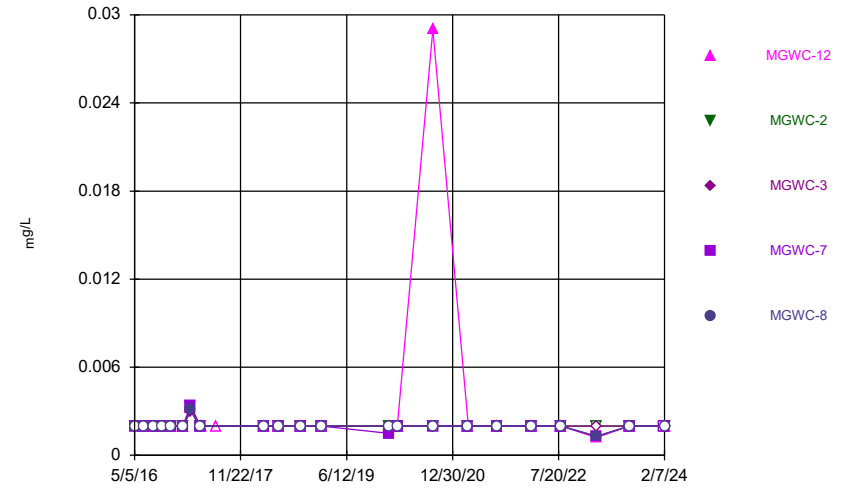
Constituent: Chloride Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



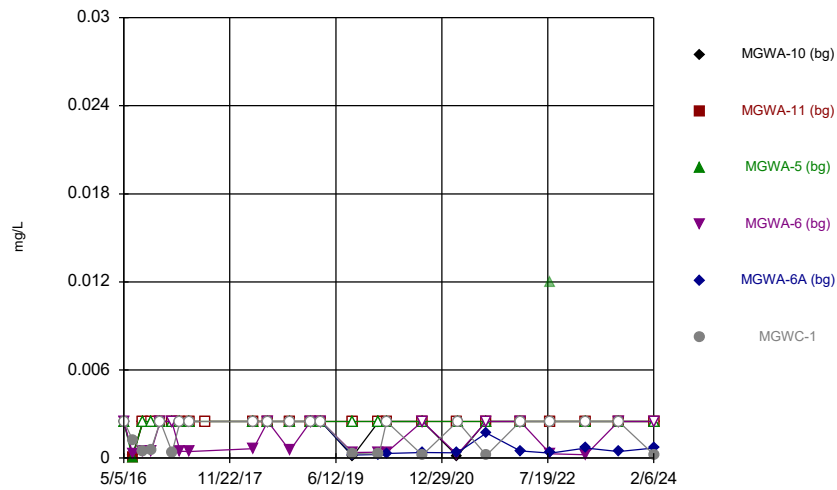
Constituent: Chromium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



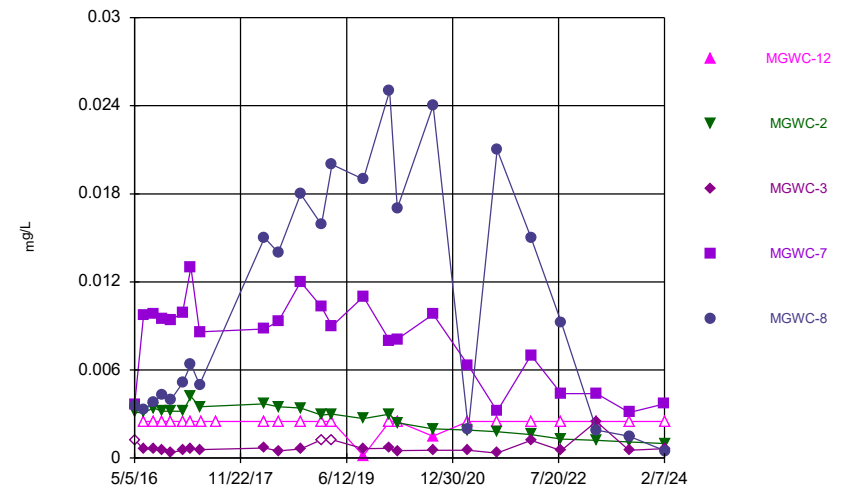
Constituent: Chromium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



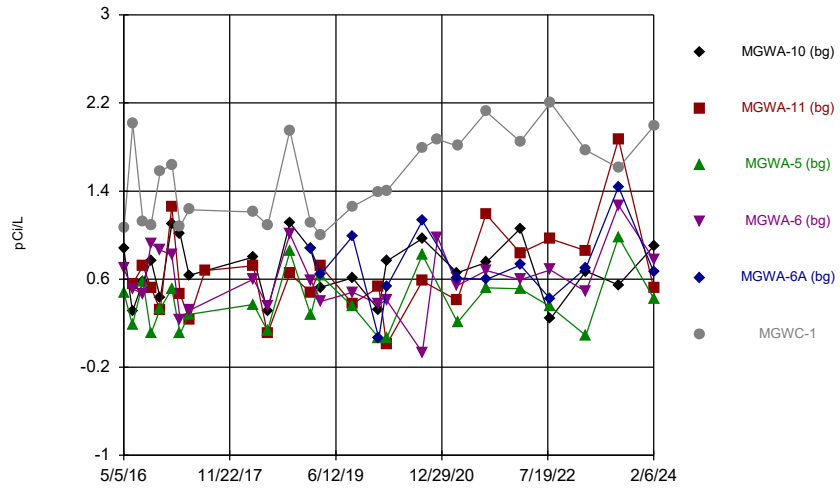
Constituent: Cobalt Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



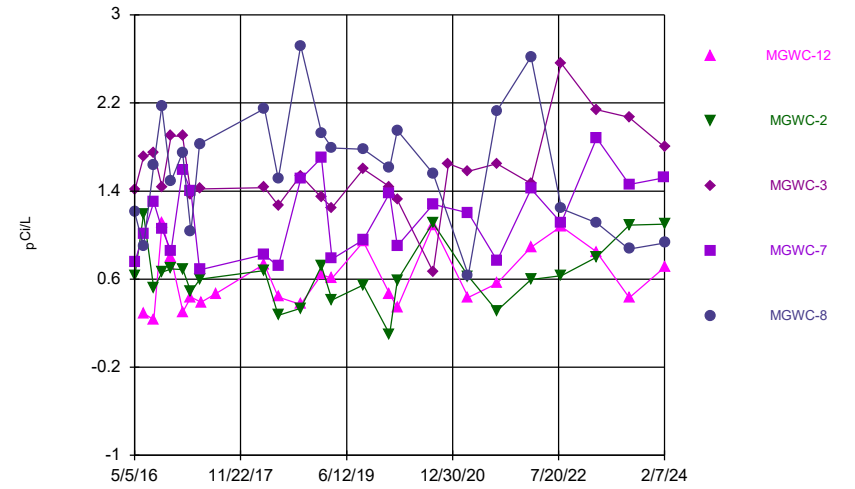
Constituent: Cobalt Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



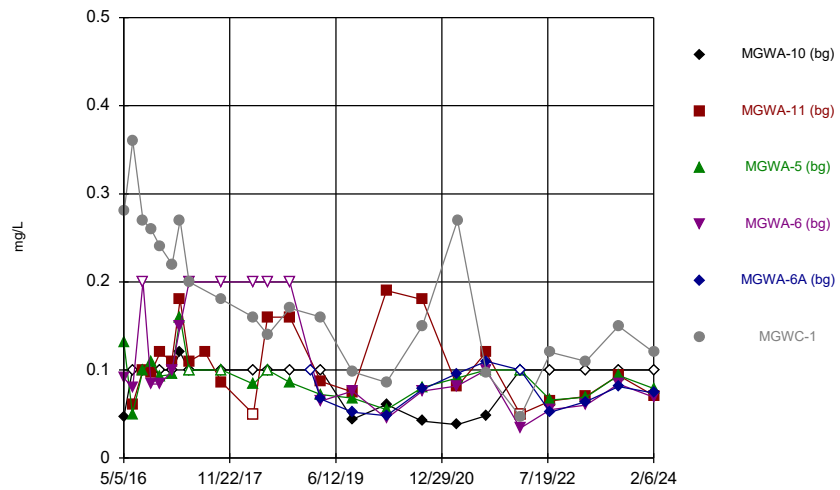
Constituent: Combined Radium 226 + 228 Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



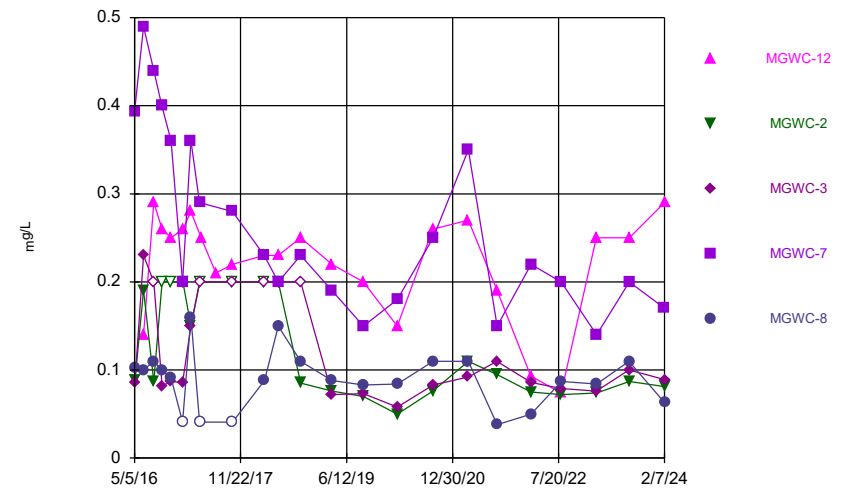
Constituent: Combined Radium 226 + 228 Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



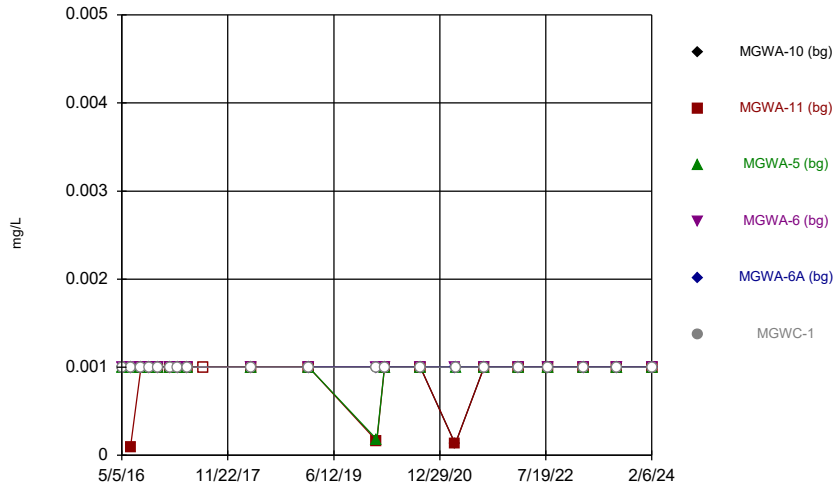
Constituent: Fluoride Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



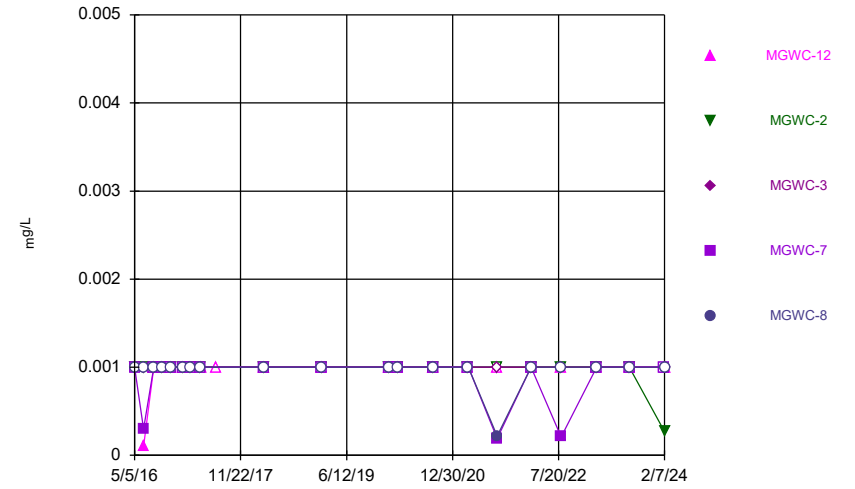
Constituent: Fluoride Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



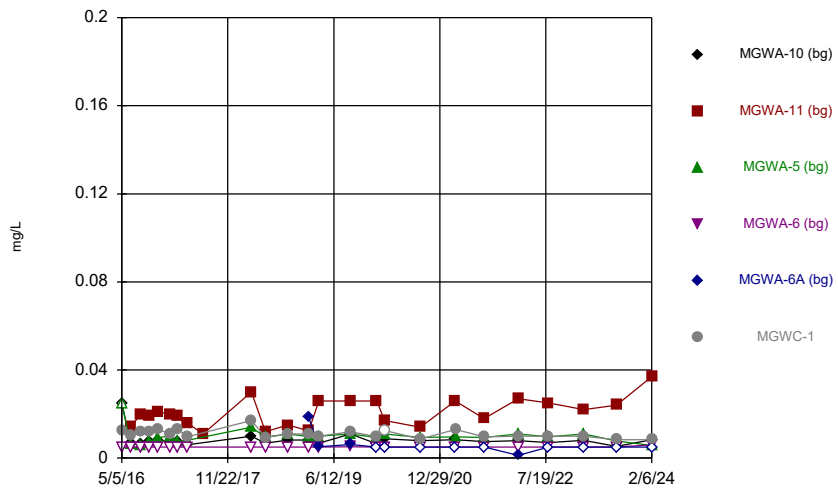
Constituent: Lead Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



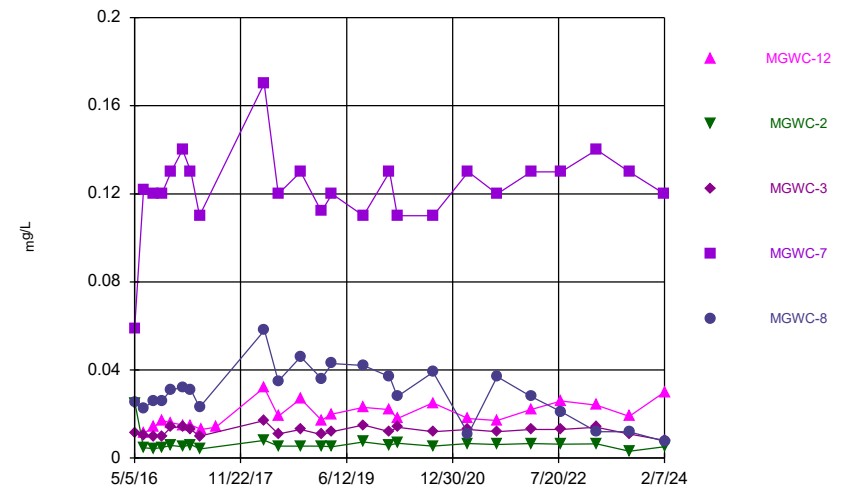
Constituent: Lead Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



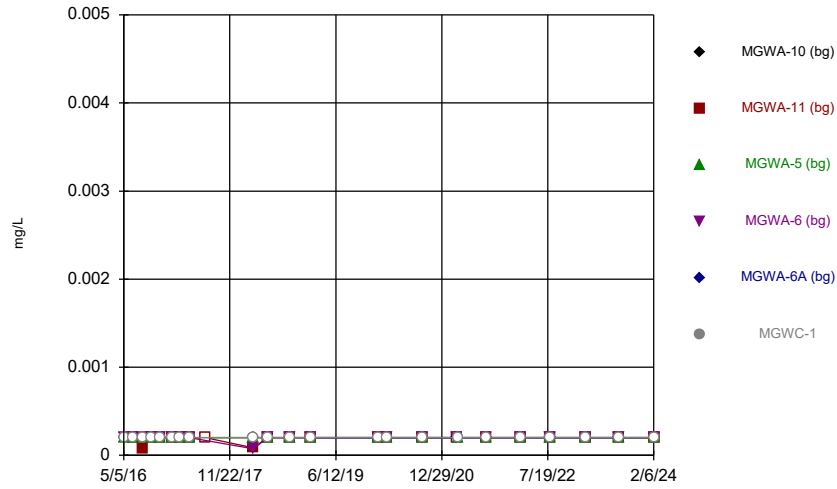
Constituent: Lithium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



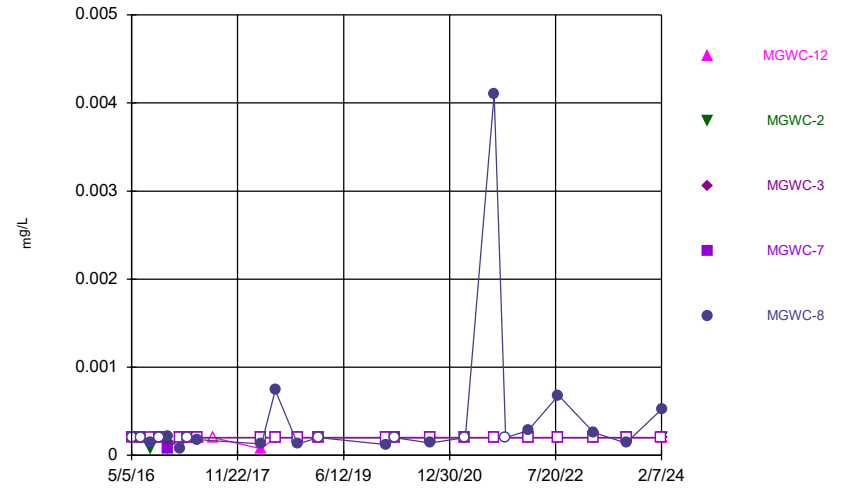
Constituent: Lithium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



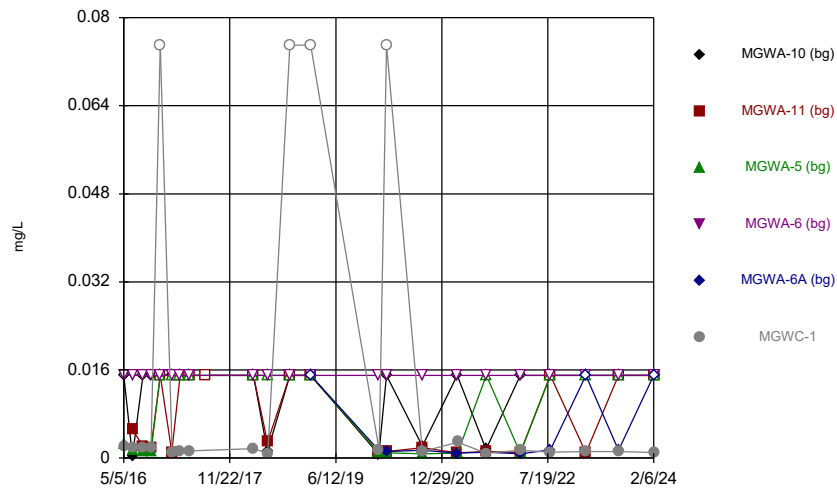
Constituent: Mercury Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



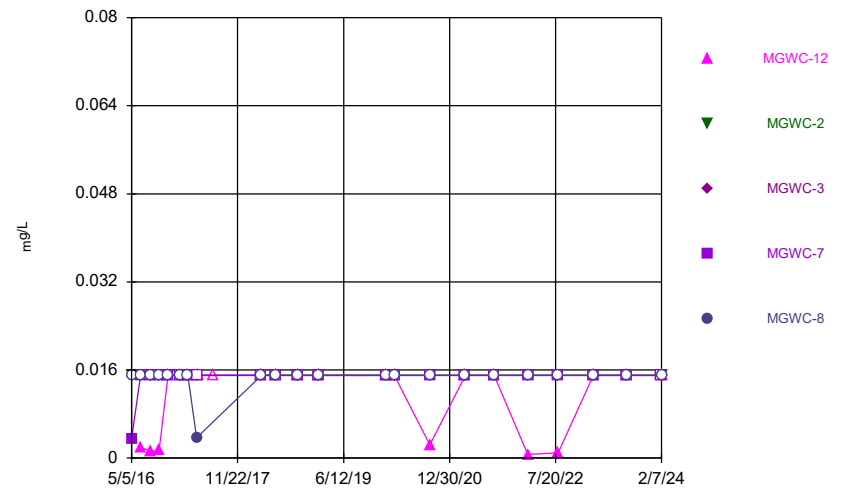
Constituent: Mercury Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



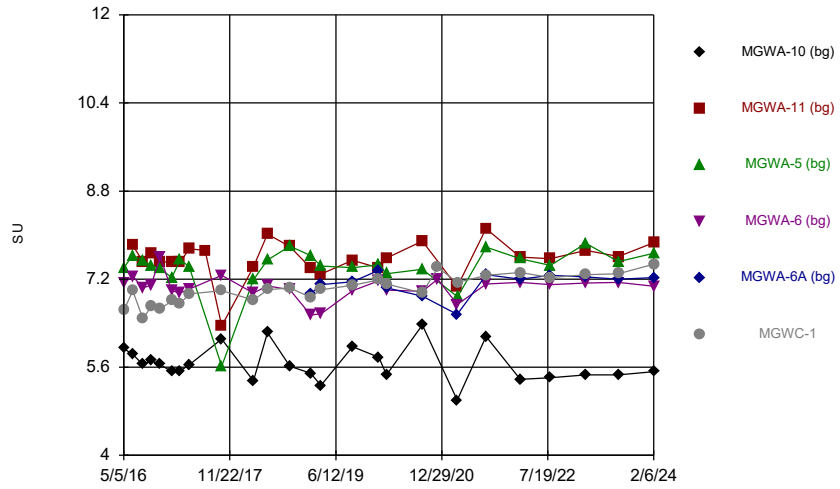
Constituent: Molybdenum Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



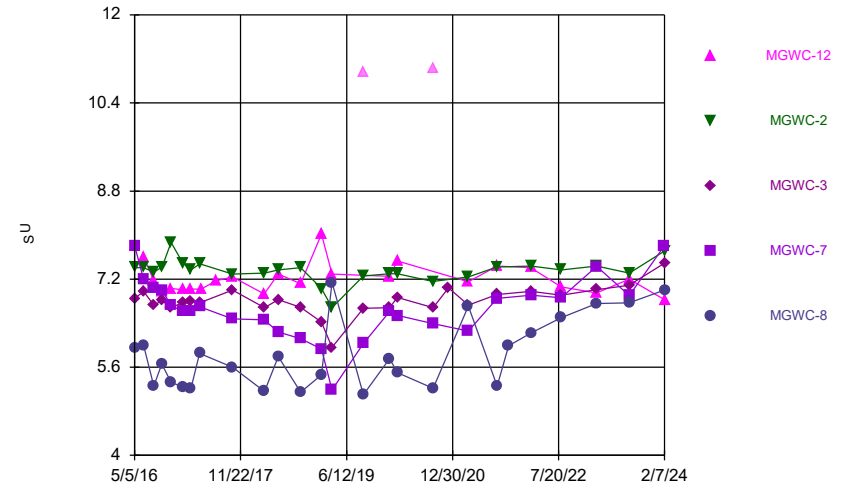
Constituent: Molybdenum Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



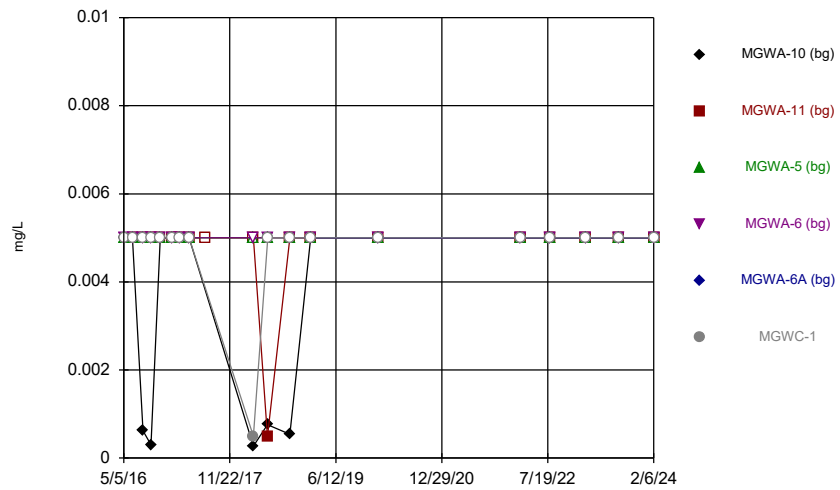
Constituent: pH Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



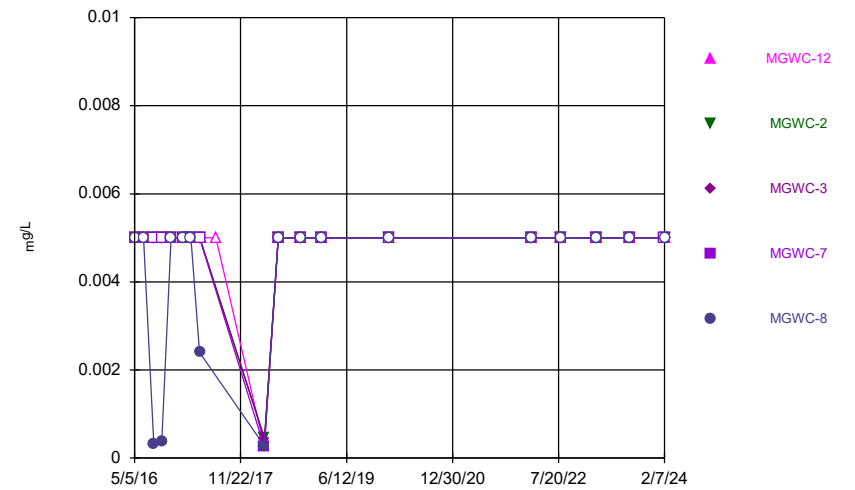
Constituent: pH Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



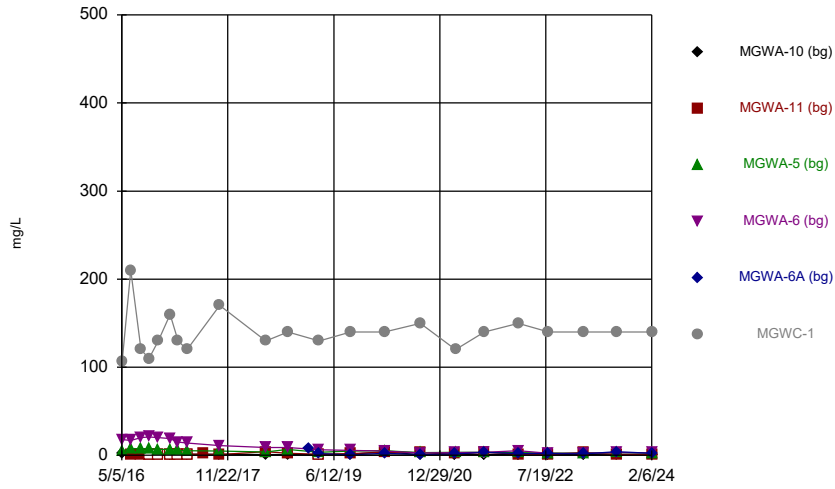
Constituent: Selenium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



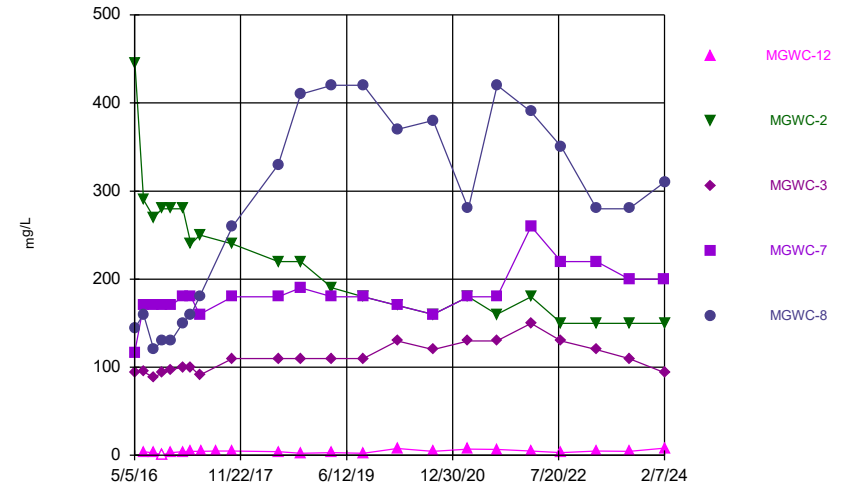
Constituent: Selenium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



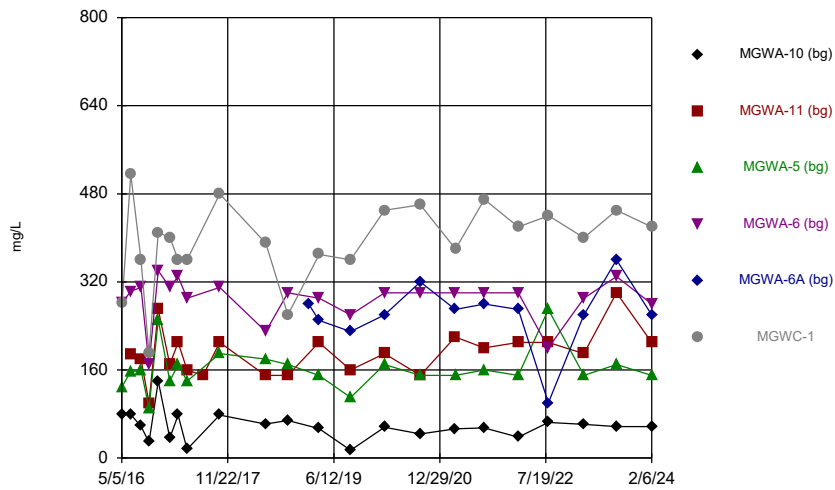
Constituent: Sulfate Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



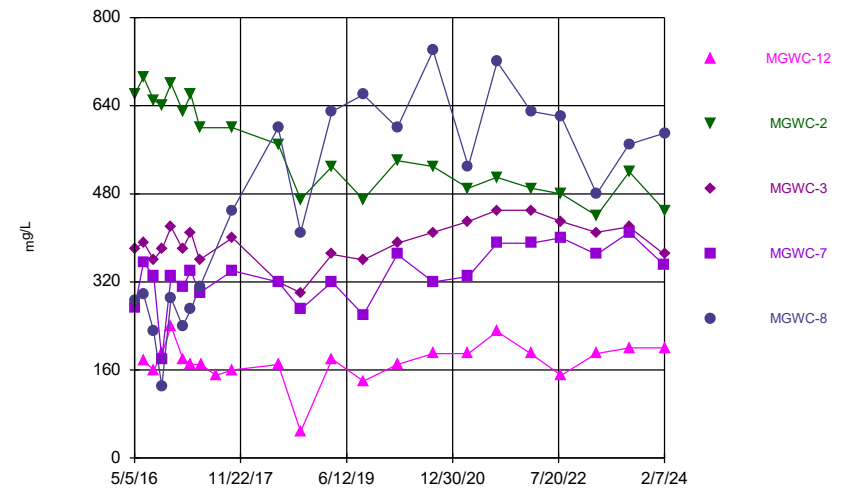
Constituent: Sulfate Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



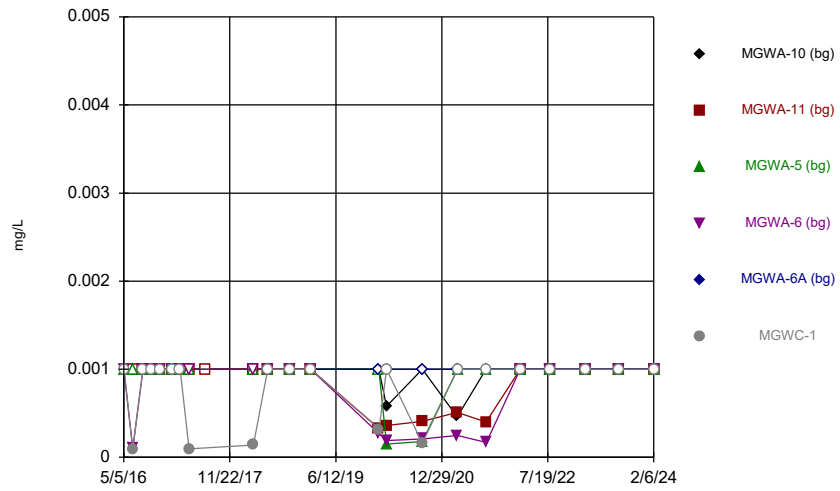
Constituent: TDS Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



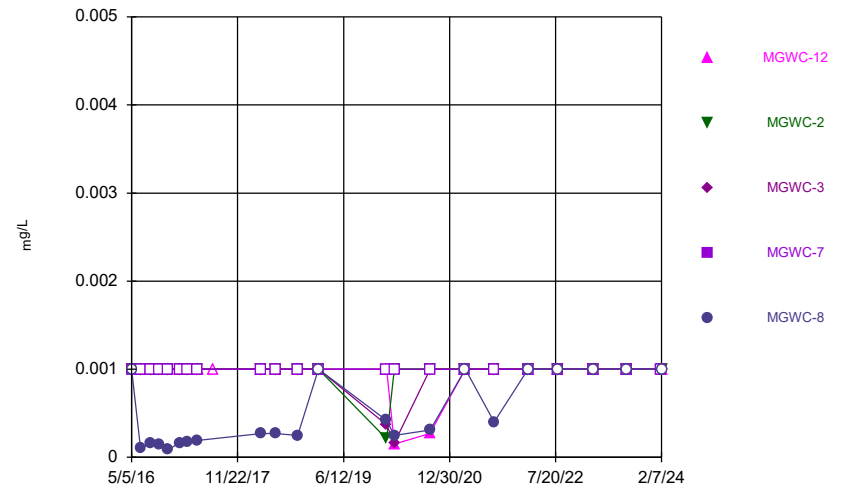
Constituent: TDS Analysis Run 3/15/2024 3:14 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



Constituent: Thallium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series



Constituent: Thallium Analysis Run 3/15/2024 3:14 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	0.00112 (J)		0.0012 (J)	<0.002		
5/6/2016						<0.002
6/20/2016	<0.002	<0.002	<0.002			
6/21/2016				0.0017 (J)		<0.002
8/15/2016	<0.002	<0.002	<0.002	<0.002		
8/16/2016						<0.002
9/28/2016	<0.002	<0.002	<0.002	<0.002		<0.002
11/16/2016	<0.002	<0.002	<0.002	<0.002		<0.002
1/16/2017	<0.002					
1/17/2017		<0.002	<0.002	<0.002		
1/19/2017						<0.002
3/2/2017	<0.002	<0.002	<0.002	<0.002		<0.002
4/18/2017	<0.002	<0.002	<0.002	<0.002		<0.002
7/13/2017		<0.002				
3/29/2018	<0.002	<0.002	<0.002	<0.002		<0.002
1/28/2019	<0.002	<0.002				
1/29/2019			<0.002	<0.002	<0.002	<0.002
1/28/2020	0.00049 (J)	<0.002	<0.002	<0.002	<0.002	
1/29/2020						<0.002
3/9/2020	<0.002	<0.002				
3/10/2020			<0.002	<0.002	<0.002	<0.002
9/16/2020	0.00098 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
9/17/2020						<0.002
3/23/2021	<0.002	<0.002		<0.002	<0.002	
3/24/2021			<0.002			<0.002
8/23/2021	<0.002	0.00052 (J)				
8/24/2021			<0.002	<0.002	<0.002	
8/25/2021						<0.002
2/22/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
8/3/2022						<0.002
2/7/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
2/8/2023						<0.002
8/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/6/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.00197 (J)	<0.002
5/6/2016		<0.002	<0.002		
6/21/2016	0.0004 (J)	<0.002	0.0003 (J)	<0.002	<0.002
8/15/2016				<0.002	<0.002
8/16/2016	<0.002	<0.002	<0.002		
9/28/2016				<0.002	<0.002
9/29/2016	<0.002	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002	<0.002
1/17/2017			<0.002	<0.002	<0.002
1/18/2017	<0.002	<0.002			
3/2/2017	<0.002	<0.002	<0.002	<0.002	<0.002
4/18/2017			<0.002	<0.002	<0.002
4/19/2017		<0.002			
4/25/2017	<0.002				
7/13/2017	<0.002				
3/29/2018	<0.002			<0.002	
3/30/2018		<0.002	<0.002		<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020	<0.002			<0.002	
1/29/2020		<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020	<0.002	<0.002			
9/17/2020			<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002	<0.002
8/24/2021		<0.002	<0.002		
8/25/2021	<0.002			<0.002	<0.002
2/22/2022	<0.002				
2/23/2022		<0.002	<0.002	<0.002	<0.002
8/2/2022	0.0015 (J)				
8/3/2022			<0.002	<0.002	
8/4/2022		<0.002			<0.002
2/7/2023	<0.002		<0.002		
2/8/2023		<0.002		0.00051 (J)	<0.002
8/1/2023			<0.002		<0.002
8/2/2023	<0.002	<0.002		<0.002	
2/6/2024				<0.002	
2/7/2024	<0.002	<0.002	<0.002		<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/19/2024 12:04 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.001		<0.001	0.0343		
5/6/2016						0.00299 (J)
6/20/2016	0.00036 (J)	0.003 (J)	0.00014 (J)			
6/21/2016				0.0352		0.0047 (J)
8/15/2016	0.00096 (J)	0.0033	<0.001	0.035		
8/16/2016						0.003
9/28/2016	0.00095 (J)	0.0026	0.00062 (J)	0.033		0.0036
11/16/2016	<0.001	0.0013	<0.001	0.02		0.003
1/16/2017	<0.001					
1/17/2017		<0.00125	<0.001	0.022		
1/19/2017						0.0024
3/2/2017	<0.001	0.0015	<0.001	0.021		0.0027
4/18/2017	<0.001	0.00071 (J)	<0.001	0.018		0.0024
7/13/2017		0.00066 (J)				
3/29/2018	<0.001	0.002	<0.001	0.014		0.0023
6/12/2018	<0.001	0.0017	<0.001			
6/13/2018				0.011		0.0021
10/9/2018	<0.001	0.00072 (J)	<0.001			
10/10/2018				0.014		0.0024
1/28/2019	<0.001	<0.00125				
1/29/2019			<0.001	0.00972	0.0118	0.00255
3/25/2019	<0.001	0.0022	0.00069 (J)		0.0012 (J)	
3/26/2019				0.0097		0.002
9/10/2019	<0.001	0.0018	0.00039 (J)	0.0085	0.0021	0.0018
1/28/2020	<0.001	0.0014	0.00036 (J)	0.0063	0.0028	
1/29/2020						0.0021
3/9/2020	<0.001	0.00073 (J)				
3/10/2020			0.00031 (J)	0.0093	0.0029	0.0019
9/16/2020	<0.001	0.00069 (J)	0.00035 (J)	0.0089	0.011	
9/17/2020						0.002
3/23/2021	0.00033 (J)	0.0023		0.0089	0.0098	
3/24/2021			0.00033 (J)			0.0024
8/23/2021	<0.001	0.00077 (J)				
8/24/2021			<0.001	0.0087	0.0021	
8/25/2021						0.00092 (J)
2/22/2022	<0.001	0.0024	0.00052 (J)	0.011	0.013	0.0014
8/2/2022	<0.001	0.0022	<0.001	0.0093	0.002	
8/3/2022						0.0015
2/7/2023	<0.001	0.0025	<0.001	0.011	0.013	
2/8/2023						0.0016
8/1/2023	<0.001	0.0025	<0.001	0.01	0.0046	0.0012
2/6/2024	0.00088 (J)	0.0031	0.00092 (J)	0.011	0.012	0.0023

Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/19/2024 12:04 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.00143 (J)	<0.001
5/6/2016		<0.001	0.00154 (J)		
6/21/2016	0.0015 (J)	<0.001	0.0016 (J)	0.0009 (J)	<0.001
8/15/2016				0.0012 (J)	<0.001
8/16/2016	0.00082 (J)	<0.001	0.0017		
9/28/2016				0.00084 (J)	<0.001
9/29/2016	0.0019	<0.001	0.0013		
11/16/2016	0.0017	0.00068 (J)	0.0014	<0.001	<0.001
1/17/2017			0.00056 (J)	<0.001	<0.001
1/18/2017	0.00096 (J)	<0.001			
3/2/2017	0.00082 (J)	0.00065 (J)	0.0018	0.0009 (J)	<0.001
4/18/2017			0.0018	0.0005 (J)	0.00059 (J)
4/19/2017		<0.001			
4/25/2017	<0.001				
7/13/2017	0.00047 (J)				
3/29/2018	0.00053 (J)			0.00066 (J)	
3/30/2018		<0.001	0.0017		<0.001
6/12/2018	0.00063 (J)				
6/13/2018		<0.001	0.0015	<0.001	<0.001
10/10/2018	0.00098 (J)	<0.001	0.0016	<0.001	<0.001
1/29/2019	<0.001	<0.001	0.00143	<0.001	<0.001
3/26/2019	0.00079 (J)	<0.001	0.0012 (J)	<0.001	<0.001
9/10/2019	0.0011	0.00036 (J)	0.0017	0.00074 (J)	0.00056 (J)
1/28/2020	0.00051 (J)			0.00046 (J)	
1/29/2020		0.0004 (J)	0.0017		0.00047 (J)
3/10/2020	<0.001	<0.001	<0.005	<0.001	<0.001
9/16/2020	<0.001	<0.001			
9/17/2020			0.0015	0.00045 (J)	<0.001
3/24/2021	<0.001	<0.001	0.0018	0.00046 (J)	0.00099 (J)
8/24/2021		<0.001	0.0014		
8/25/2021	<0.001			0.00055 (J)	<0.001
2/22/2022	0.00089 (J)				
2/23/2022		<0.001	0.0016	0.0004 (J)	0.00044 (J)
8/2/2022	0.0015				
8/3/2022			0.0016	0.00052 (J)	
8/4/2022		<0.001			0.00075 (J)
2/7/2023	0.00098 (J)		0.0018		
2/8/2023		<0.001		<0.001	0.001
8/1/2023			0.0017		0.00098 (J)
8/2/2023	<0.001	<0.001		<0.001	
2/6/2024				0.0012	
2/7/2024	0.0012	<0.001	0.0021		0.0017

Time Series

Constituent: Barium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	0.0376		0.0295	0.0595		
5/6/2016						0.11
6/20/2016	0.033	0.091	0.031			
6/21/2016				0.0539		0.165
8/15/2016	0.029	0.11	0.032	0.053		
8/16/2016						0.094
9/28/2016	0.032	0.12	0.038	0.06		0.1
11/16/2016	0.027	0.11	0.035	0.052		0.096
1/16/2017	0.022					
1/17/2017		0.11	0.039	0.051		
1/19/2017						0.12
3/2/2017	0.027	0.11	0.037	0.043		0.097
4/18/2017	0.024	0.1	0.035	0.042		0.092
7/13/2017		0.087				
3/29/2018	0.021	0.11	0.037	0.043		0.095
6/12/2018	0.025	0.068	0.036			
6/13/2018				0.037		0.096
10/9/2018	0.024	0.072	0.034			
10/10/2018				0.037		0.095
1/28/2019	0.0249	0.0834				
1/29/2019			0.0363	0.0393	0.0421	0.107
3/25/2019	0.023	0.11	0.035		0.044	
3/26/2019				0.033		0.096
9/10/2019	0.031	0.13	0.035	0.04	0.042	0.11
1/28/2020	0.025	0.13	0.034	0.034	0.037	
1/29/2020						0.11
3/9/2020	0.023	0.094				
3/10/2020			0.043	0.031	0.035	0.13
9/16/2020	0.025	0.078	0.037	0.028	0.034	
9/17/2020						0.11
3/23/2021	0.02	0.13		0.028	0.031	
3/24/2021			0.032			0.1
8/23/2021	0.024	0.096				
8/24/2021			0.027	0.026	0.026	
8/25/2021						0.11
2/22/2022	0.022	0.13	0.038	0.03	0.034	0.11
8/2/2022	0.018	0.12	0.031	0.034	0.023	
8/3/2022						0.11
2/7/2023	0.021	0.1	0.028	0.03	0.032	
2/8/2023						0.1
8/1/2023	0.021	0.12	0.037	0.029	0.029	0.1
2/6/2024	0.023	0.13	0.039	0.029	0.031	0.12

Time Series

Constituent: Barium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.039	0.0364
5/6/2016		0.0605	0.151		
6/21/2016	0.0439	0.0613	0.174	0.0152	0.0386
8/15/2016				0.015	0.03
8/16/2016	0.041	0.052	0.13		
9/28/2016				0.014	0.034
9/29/2016	0.052	0.053	0.14		
11/16/2016	0.044	0.056	0.14	0.013	0.034
1/17/2017			0.16	0.014	0.038
1/18/2017	0.056	0.06			
3/2/2017	0.04	0.056	0.15	0.013	0.037
4/18/2017			0.14	0.011	0.04
4/19/2017		0.051			
4/25/2017	0.042				
7/13/2017	0.043				
3/29/2018	0.061			0.01	
3/30/2018		0.049	0.13		0.041
6/12/2018	0.063				
6/13/2018		0.05	0.14	0.0098	0.038
10/10/2018	0.071	0.046	0.13	0.011	0.035
1/29/2019	0.06	0.0496	0.138	<0.0025	0.0344
3/26/2019	0.06	0.048	0.13	0.0086	0.032
9/10/2019	0.073	0.053	0.15	0.012	0.035
1/28/2020	0.069			0.012	
1/29/2020		0.051	0.15		0.033
3/10/2020	0.056	0.049	0.15	0.013	0.036
9/16/2020	0.1	0.048			
9/17/2020			0.16	0.0091 (J)	0.028
3/24/2021	0.056	0.049	0.16	0.011	0.054
8/24/2021		0.047	0.16		
8/25/2021	0.051			0.013	0.031
2/22/2022	0.067				
2/23/2022		0.046	0.17	0.014	0.036
8/2/2022	0.057				
8/3/2022			0.15	0.018	
8/4/2022		0.042			0.043
2/7/2023	0.06		0.16		
2/8/2023		0.044		0.02	0.052
8/1/2023			0.16		0.056
8/2/2023	0.055	0.04		0.015	
2/6/2024				0.024	
2/7/2024	0.055	0.047	0.18		0.061

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.0025		<0.0025	<0.0025		
5/6/2016						<0.0025
6/20/2016	3.3E-05 (J)	<0.0025	<0.0025			
6/21/2016				<0.0025		<0.0025
8/15/2016	<0.0025	<0.0025	<0.0025	<0.0025		
8/16/2016						<0.0025
9/28/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
1/16/2017	<0.0025					
1/17/2017		<0.0025	<0.0025	<0.0025		
1/19/2017						<0.0025
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2017		<0.0025				
3/29/2018	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025			
6/13/2018				<0.0025		<0.0025
10/9/2018	<0.0025	<0.0025	<0.0025			
10/10/2018				<0.0025		<0.0025
1/28/2019	<0.0025	<0.0025				
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025
1/28/2020	<0.0025	0.0004 (J)	<0.0025	<0.0025	<0.0025	
1/29/2020						0.00018 (J)
3/9/2020	0.00045 (J)	0.00018 (J)				
3/10/2020			<0.0025	<0.0025	<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
9/17/2020						<0.0025
3/23/2021	0.00022 (J)	<0.0025		<0.0025	<0.0025	
3/24/2021			<0.0025			<0.0025
8/23/2021	<0.0025	<0.0025				
8/24/2021			<0.0025	<0.0025	<0.0025	
8/25/2021						<0.0025
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/3/2022						<0.0025
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/8/2023						<0.0025
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.0025	<0.0025
5/6/2016		<0.0025	<0.0025		
6/21/2016	<0.0025	<0.0025	<0.0025	<0.0025	0.0004 (J)
8/15/2016				<0.0025	0.00053 (J)
8/16/2016	<0.0025	<0.0025	<0.0025		
9/28/2016				<0.0025	0.00049 (J)
9/29/2016	<0.0025	<0.0025	<0.0025		
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025	0.0004 (J)
1/17/2017			<0.0025	<0.0025	0.00084 (J)
1/18/2017	<0.0025	<0.0025			
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025	0.00068 (J)
4/18/2017			<0.0025	<0.0025	0.00067 (J)
4/19/2017		<0.0025			
4/25/2017	<0.0025				
7/13/2017	<0.0025				
3/29/2018	<0.0025			<0.0025	
3/30/2018		<0.0025	<0.0025		0.0015 (J)
6/12/2018	<0.0025				
6/13/2018		<0.0025	<0.0025	<0.0025	0.0012 (J)
10/10/2018	<0.0025	<0.0025	<0.0025	<0.0025	0.0016 (J)
1/29/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/28/2020	<0.0025			<0.0025	
1/29/2020		<0.0025	0.00031 (J)		0.0019
3/10/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.0013 (J)
9/16/2020	<0.0025	<0.0025			
9/17/2020			<0.0025	<0.0025	0.0019 (J)
3/24/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/24/2021		<0.0025	<0.0025		
8/25/2021	<0.0025			<0.0025	0.0015 (J)
2/22/2022	<0.0025				
2/23/2022		<0.0025	<0.0025	<0.0025	0.0014 (J)
8/2/2022	<0.0025				
8/3/2022			<0.0025	<0.0025	
8/4/2022		<0.0025			0.00064 (J)
2/7/2023	<0.0025		<0.0025		
2/8/2023		<0.0025		<0.0025	0.0002 (J)
8/1/2023			<0.0025		0.00025 (J)
8/2/2023	<0.0025	<0.0025		<0.0025	
2/6/2024				<0.0025	
2/7/2024	<0.0025	<0.0025	<0.0025		<0.0025

Time Series

Constituent: Boron (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.08		<0.08	0.157		
5/6/2016						0.567
6/20/2016	0.011 (J)	0.017 (J)	0.013 (J)			
6/21/2016				0.124		1.55
8/15/2016	0.022 (J)	0.032 (J)	0.023 (J)	0.18		
8/16/2016						0.85
9/28/2016	0.023 (J)	0.021 (J)	<0.08	0.17		0.7
11/16/2016	<0.08	<0.08	<0.08	0.17		0.88
1/16/2017	0.021 (J)					
1/17/2017		<0.08	<0.08	0.17		
1/19/2017						1.5
3/2/2017	<0.08	<0.08	<0.08	0.14		0.89
4/18/2017	<0.08	<0.08	<0.08	0.14		1.1
7/13/2017		<0.08				
10/10/2017	0.021 (J)	0.025 (J)	<0.08	0.12		1.9
6/12/2018	<0.08	<0.08	<0.08			
6/13/2018				0.11		1.2
10/9/2018	<0.08	<0.08	<0.08			
10/10/2018				0.096 (J)		1.2
1/29/2019					<0.08	
3/25/2019	<0.08	<0.08	<0.08		<0.08	
3/26/2019				0.079 (J)		1.3
9/10/2019	<0.08	<0.08	<0.08	0.097	0.04 (J)	1.5
3/9/2020	0.045 (J)	<0.08				
3/10/2020			<0.08	0.051 (J)	<0.08	1.9
9/16/2020	<0.08	0.045 (J)	<0.08	0.041 (J)	0.04 (J)	
9/17/2020						1.8
3/23/2021	<0.08	0.047 (J)		<0.08	<0.08	
3/24/2021			<0.08			0.57
8/23/2021	<0.08	0.043 (J)				
8/24/2021			<0.08	<0.08	<0.08	
8/25/2021						1.7
2/22/2022	<0.08	<0.08	<0.08	<0.08	<0.08	1.7
8/2/2022	<0.08	<0.08	<0.08	<0.08	<0.08	
8/3/2022						1.7
2/7/2023	<0.08	0.028 (J)	0.022 (J)	0.028 (J)	0.039 (J)	
2/8/2023						1.5
8/1/2023	0.035 (J)	0.045 (J)	0.037 (J)	0.057 (J)	0.038 (J)	1.6
2/6/2024	<0.08	0.047 (J)	0.044 (J)	0.026 (J)	0.084	1.6

Time Series

Constituent: Boron (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.855	0.976
5/6/2016		3.78	0.926		
6/21/2016	0.0201 (J)	3.1	0.792	1.15	0.862
8/15/2016				1.3	0.8
8/16/2016	0.055	2.8	1		
9/28/2016				1.3	0.8
9/29/2016	<0.08	3.1	1		
11/16/2016	0.055	3.9	1.2	1.3	0.98
1/17/2017			1.3	1.3	1.6
1/18/2017	0.097	3.7			
3/2/2017	0.064	3.3	1.3	1.3	1.8
4/18/2017			1.8	1.5	2.4
4/19/2017		3.7			
4/25/2017	<0.08				
7/13/2017	<0.08				
10/10/2017	<0.08	3.4	1.7	1.4	4.2
6/12/2018	<0.08				
6/13/2018		3	1.6	1.4	4.9
10/10/2018	0.034 (J)	3	1.6	1.4	5.1
3/26/2019	0.032 (J)	2.6	1.5	1.5	5.1
9/10/2019	0.06 (J)	2.4	1.5	1.5	4.8
3/10/2020	<0.08	2.3	1.3	1.4	4
9/16/2020	<0.08	2.1			
9/17/2020			1.2	1.4	4.4
3/24/2021	<0.08	2.4	1.2	1.5	3.6
8/24/2021		2.2	0.97		
8/25/2021	0.11			1.6	4.2
2/22/2022	<0.08				
2/23/2022		2	0.83	2.1	4.1
8/2/2022	0.071 (J)				
8/3/2022			0.76	2.3	
8/4/2022		1.9			4.3
2/7/2023	0.067 (J)		0.63		
2/8/2023		1.8		2.1	3.9
8/1/2023			0.65		4.3
8/2/2023	0.062 (J)	1.8		2.2	
2/6/2024				2.4	
2/7/2024	0.023 (J)	1.9	0.59		5.1

Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.0025		<0.0025	<0.0025		
5/6/2016						0.000126 (J)
6/20/2016	<0.0025	<0.0025	<0.0025			
6/21/2016				<0.0025		0.0005 (J)
8/15/2016	<0.0025	<0.0025	<0.0025	<0.0025		
8/16/2016						<0.0025
9/28/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
1/16/2017	<0.0025					
1/17/2017		<0.0025	<0.0025	<0.0025		
1/19/2017						<0.0025
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2017		<0.0025				
3/29/2018	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025			
6/13/2018				<0.0025		<0.0025
10/9/2018	<0.0025	<0.0025	<0.0025			
10/10/2018				<0.0025		<0.0025
1/28/2019	<0.0025	<0.0025				
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025
3/25/2019	<0.0025	<0.0025	<0.0025		<0.0025	
3/26/2019				<0.0025		<0.0025
9/10/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)
1/28/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
1/29/2020						<0.0025
3/9/2020	0.00023 (J)	<0.0025				
3/10/2020			<0.0025	<0.0025	<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
9/17/2020						<0.0025
3/23/2021	<0.0025	<0.0025		<0.0025	<0.0025	
3/24/2021			<0.0025			<0.0025
8/23/2021	<0.0025	<0.0025				
8/24/2021			<0.0025	<0.0025	<0.0025	
8/25/2021						<0.0025
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/3/2022						8.5E-05 (J)
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/8/2023						0.00012 (J)
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.0025	0.000784 (J)
5/6/2016		0.00166	<0.0025		
6/21/2016	<0.0025	0.0008 (J)	<0.0025	<0.0025	0.0003 (J)
8/15/2016				<0.0025	<0.0025
8/16/2016	<0.0025	0.0034	<0.0025		
9/28/2016				<0.0025	<0.0025
9/29/2016	<0.0025	0.0027	<0.0025		
11/16/2016	<0.0025	0.0022 (J)	<0.0025	<0.0025	<0.0025
1/17/2017			<0.0025	<0.0025	<0.0025
1/18/2017	<0.0025	0.008			
3/2/2017	<0.0025	0.005	<0.0025	<0.0025	<0.0025
4/18/2017			<0.0025	<0.0025	0.00044 (J)
4/19/2017		0.0011 (J)			
4/25/2017	<0.0025				
7/13/2017	<0.0025				
3/29/2018	<0.0025			<0.0025	
3/30/2018		0.0016 (J)	<0.0025		0.00058 (J)
6/12/2018	<0.0025				
6/13/2018		0.0016 (J)	<0.0025	<0.0025	0.00076 (J)
10/10/2018	<0.0025	0.001 (J)	<0.0025	<0.0025	0.00035 (J)
1/29/2019	<0.0025	0.00315	<0.0025	<0.0025	<0.0025
3/26/2019	<0.0025	0.0019 (J)	<0.0025	<0.0025	0.0005 (J)
9/10/2019	<0.0025	0.0011	<0.0025	<0.0025	0.00079 (J)
1/28/2020	<0.0025			<0.0025	
1/29/2020		0.0054	<0.0025		0.0009 (J)
3/10/2020	<0.0025	0.0011 (J)	<0.0025	<0.0025	0.0011 (J)
9/16/2020	<0.0025	0.00053 (J)			
9/17/2020			<0.0025	0.00023 (J)	0.00072 (J)
3/24/2021	<0.0025	0.0022 (J)	<0.0025	<0.0025	0.001 (J)
8/24/2021		0.00054 (J)	<0.0025		
8/25/2021	<0.0025			<0.0025	0.0046
2/22/2022	<0.0025				
2/23/2022		0.0039	<0.0025	<0.0025	0.0014 (J)
8/2/2022	<0.0025				
8/3/2022			<0.0025	0.00041 (J)	
8/4/2022		0.0002 (J)			0.0037
2/7/2023	<0.0025		<0.0025		
2/8/2023		0.0021 (J)		<0.0025	0.0018 (J)
8/1/2023			<0.0025		0.002 (J)
8/2/2023	<0.0025	0.00032 (J)		0.00031 (J)	
2/6/2024				<0.0025	
2/7/2024	<0.0025	0.00034 (J)	<0.0025		0.0034

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	8.83		27	105		
5/6/2016						92.5
6/20/2016	8.1	35.5	29.4			
6/21/2016				91.2		119
8/15/2016	6.1	34	26	94		
8/16/2016						84
9/28/2016	7.2	38	31	110		92
11/16/2016	5.2	33	26	98		83
1/16/2017	3.8					
1/17/2017		34	29	100		
1/19/2017						110
3/2/2017	5.4	35	28	100		89
4/18/2017	5	33	27	110		100
7/13/2017		30				
10/10/2017	4.8	39	31	110		120
6/12/2018	4.8	26	25			
6/13/2018				100		100
10/9/2018	4.5	29	29			
10/10/2018				100		100
1/29/2019					95.1	
3/25/2019	4.6	37	27		89	
3/26/2019				100		100
9/10/2019	4.9	36	27	110	86	110
3/9/2020	4	32				
3/10/2020			29	100	90	120
9/16/2020	6.8	30	28	100	93	
9/17/2020						110
3/23/2021	4	42		110	97	
3/24/2021			28			100
8/23/2021	5.8	34				
8/24/2021			27	100	83	
8/25/2021						120
2/22/2022	3.3	36	25	97	90	100
8/2/2022	3.1	36	26	110	94	
8/3/2022						110
2/7/2023	3.6	34	26	110	99	
2/8/2023						110
8/1/2023	3.9	39	28	110	110	110
2/6/2024	3.9	40	26	100	100	110

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/15/2024 3:14 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				45	41.2
5/6/2016		131	109		
6/21/2016	25.5	119	99.7	52.8	44.7
8/15/2016				50	27
8/16/2016	25	120	97		
9/28/2016				58	32
9/29/2016	30	140	100		
11/16/2016	26	120	94	50	27
1/17/2017			100	52	32
1/18/2017	32	130			
3/2/2017	26	120	99	52	33
4/18/2017			120	56	59
4/19/2017		120			
4/25/2017	26				
7/13/2017	26				
10/10/2017	28	130	110	56	74
6/12/2018	30				
6/13/2018		120	100	51	84
10/10/2018	35	120	96	51	87
3/26/2019	33	110	99	52	96
9/10/2019	33	110	99	53	97
3/10/2020	30	110	110	55	100
9/16/2020	25	110			
9/17/2020			110	48	100
3/24/2021	32	120	120	51	120
8/24/2021		110	110		
8/25/2021	31			59	96
2/22/2022	35				
2/23/2022		100	120	61	97
8/2/2022	34				
8/3/2022			110	66	
8/4/2022		98			100
2/7/2023	30		110		
2/8/2023		100		65	110
8/1/2023			120		120
8/2/2023	31	100		57	
2/6/2024				56	
2/7/2024	29	110	100		120

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	7.35		6.51	9.67		
5/6/2016						13.2
6/20/2016	7	4.3	5.9			
6/21/2016				9.2		15
8/15/2016	7.5	4.1	6.4	10		
8/16/2016						14
9/28/2016	7	3.9	6.1	10		14
11/16/2016	7.5	4.1	6.1	10		14
1/16/2017	7.7					
1/17/2017		3.9	5.7	9.4		
1/19/2017						14
3/2/2017	6.9	3.5	5.3	8.6		13
4/18/2017	6.8	3.7	5.3	8.9		13
7/13/2017		4.2				
10/10/2017	6.9	3.4	5.3	8.3		14
6/12/2018	6.7	4.6	5.1			
6/13/2018				7		13
10/9/2018	7.1	4.5	5.6			
10/10/2018				6.9		14
1/29/2019					4.51	
3/25/2019	6.8	3.4	4.7		4.4	
3/26/2019				5.8		13
9/10/2019	7	3.5	5.1	6	4.2	13
3/9/2020	7.4	4.5				
3/10/2020			5.4	5.1	4	14
9/16/2020	7	4.6	5.2	4.3	3.7	
9/17/2020						14
3/23/2021	7.8	3.8		4	4.1	
3/24/2021			5.5			14
8/23/2021	7.3	4.4				
8/24/2021			5.5	4	3.9	
8/25/2021						14
2/22/2022	7.1	3.1	5.1	4	3.3	13
8/2/2022	7.4	3.4	3.5	2.6	2.8	
8/3/2022						13
2/7/2023	7	4.2	4.7	3.1	3.2	
2/8/2023						12
8/1/2023	7.4	3.3	5.2	3.3	3.4	13
2/6/2024	7.2	3.3	4.9	3.1	3.2	12

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				13	10.1
5/6/2016		41	12.5		
6/21/2016	4.4	20	13	13	10
8/15/2016				14	9.5
8/16/2016	4.6	20	13		
9/28/2016				13	9.2
9/29/2016	4.4	19	13		
11/16/2016	4.5	20	14	13	9.5
1/17/2017			14	13	10
1/18/2017	4.2	18			
3/2/2017	3.9	18	13	13	9.3
4/18/2017			13	12	10
4/19/2017		17			
4/25/2017	4				
7/13/2017	4				
10/10/2017	4	16	14	12	11
6/12/2018	4				
6/13/2018		16	13	12	11
10/10/2018	4.2	15	14	12	10
3/26/2019	3.8	14	14	11	11
9/10/2019	4.1	13	13	9.9	10
3/10/2020	4.1	12	15	10	12
9/16/2020	5.1	12			
9/17/2020			14	9.6	10
3/24/2021	5.7	13	14	10	18
8/24/2021		13	14		
8/25/2021	4.9			9.9	11
2/22/2022	4				
2/23/2022		13	14	9.8	11
8/2/2022	4.9				
8/3/2022			13	11	
8/4/2022		12			13
2/7/2023	4.2		11		
2/8/2023		11		11	13
8/1/2023			12		13
8/2/2023	4.5	12		11	
2/6/2024				10	
2/7/2024	4.9	12	11		13

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	0.00249 (J)		<0.002	<0.002		
5/6/2016						<0.002
6/20/2016	0.0026 (J)	0.00066 (J)	0.00024 (J)			
6/21/2016				<0.002		<0.002
8/15/2016	0.0029	<0.002	<0.002	<0.002		
8/16/2016						<0.002
9/28/2016	0.0027	<0.002	<0.002	<0.002		<0.002
11/16/2016	0.0026	<0.002	<0.002	<0.002		<0.002
1/16/2017	0.0029					
1/17/2017		<0.002	<0.002	<0.002		
1/19/2017						<0.002
3/2/2017	0.0063	0.003	0.0032	0.0032		0.0036
4/18/2017	0.0031	<0.002	<0.002	<0.002		<0.002
7/13/2017		<0.002				
3/29/2018	0.0039	<0.002	<0.002	<0.002		<0.002
6/12/2018	0.0038	<0.002	<0.002			
6/13/2018				<0.002		<0.002
10/9/2018	0.0037	<0.002	<0.002			
10/10/2018				<0.002		<0.002
1/28/2019	0.00545	<0.002				
1/29/2019			<0.002	<0.002	<0.002	<0.002
1/28/2020	0.0044	<0.002	<0.002	<0.002	<0.002	
1/29/2020						<0.002
3/9/2020	0.0042	<0.002				
3/10/2020			<0.002	<0.002	<0.002	<0.002
9/16/2020	0.0039	<0.002	<0.002	<0.002	<0.002	
9/17/2020						<0.002
3/23/2021	0.0043	<0.002		<0.002	<0.002	
3/24/2021			<0.002			<0.002
8/23/2021	0.0045	<0.002				
8/24/2021			<0.002	<0.002	<0.002	
8/25/2021						<0.002
2/22/2022	0.0039	<0.002	<0.002	<0.002	<0.002	<0.002
8/2/2022	0.003	<0.002	<0.002	<0.002	<0.002	
8/3/2022						<0.002
2/7/2023	0.0053	<0.002	<0.002	<0.002	<0.002	
2/8/2023						0.0014 (J)
8/1/2023	0.0044	<0.002	<0.002	<0.002	<0.002	<0.002
2/6/2024	0.0066	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.002	<0.002
5/6/2016		<0.002	<0.002		
6/21/2016	<0.002	<0.002	<0.002	<0.002	<0.002
8/15/2016				<0.002	<0.002
8/16/2016	<0.002	<0.002	<0.002		
9/28/2016				<0.002	<0.002
9/29/2016	<0.002	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002	<0.002
1/17/2017			<0.002	<0.002	<0.002
1/18/2017	<0.002	<0.002			
3/2/2017	0.0032	0.0033	0.003	0.0034	0.0031
4/18/2017			<0.002	<0.002	<0.002
4/19/2017		<0.002			
4/25/2017	<0.002				
7/13/2017	<0.002				
3/29/2018	<0.002			<0.002	
3/30/2018		<0.002	<0.002		<0.002
6/12/2018	<0.002				
6/13/2018		<0.002	<0.002	<0.002	<0.002
10/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020	<0.002			0.0015 (J)	
1/29/2020		<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020	0.029	<0.002			
9/17/2020			<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002	<0.002
8/24/2021		<0.002	<0.002		
8/25/2021	<0.002			<0.002	<0.002
2/22/2022	<0.002				
2/23/2022		<0.002	<0.002	<0.002	<0.002
8/2/2022	<0.002				
8/3/2022			<0.002	<0.002	
8/4/2022		<0.002			<0.002
2/7/2023	0.0012 (J)		<0.002		
2/8/2023		<0.002		0.0013 (J)	0.0013 (J)
8/1/2023			<0.002		<0.002
8/2/2023	<0.002	<0.002		<0.002	
2/6/2024				<0.002	
2/7/2024	<0.002	<0.002	<0.002		<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.0025		<0.0025	<0.0025		
5/6/2016						<0.0025
6/20/2016	0.00018 (J)	3.9E-05 (J)	1.2E-05 (J)			
6/21/2016				0.0003 (J)		0.0012 (J)
8/15/2016	<0.0025	<0.0025	<0.0025	0.00049 (J)		
8/16/2016						0.00047 (J)
9/28/2016	<0.0025	<0.0025	<0.0025	0.00043 (J)		0.00058 (J)
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
1/16/2017	<0.0025					
1/17/2017		<0.0025	<0.0025	<0.0025		
1/19/2017						0.0004 (J)
3/2/2017	<0.0025	<0.0025	<0.0025	0.00046 (J)		<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	0.00044 (J)		<0.0025
7/13/2017		<0.0025				
3/29/2018	<0.0025	<0.0025	<0.0025	0.00065 (J)		<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025			
6/13/2018				<0.0025		<0.0025
10/9/2018	<0.0025	<0.0025	<0.0025			
10/10/2018				0.00051 (J)		<0.0025
1/28/2019	<0.0025	<0.0025				
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025
3/25/2019	<0.0025	<0.0025	<0.0025		<0.0025	
3/26/2019				<0.0025		<0.0025
9/10/2019	0.00011 (J)	<0.0025	<0.0025	0.00037 (J)	0.0002 (J)	0.00032 (J)
1/28/2020	<0.0025	<0.0025	<0.0025	0.00041 (J)	0.00024 (J)	
1/29/2020						0.00027 (J)
3/9/2020	<0.0025	<0.0025				
3/10/2020			<0.0025	0.00038 (J)	0.00032 (J)	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.00038 (J)	
9/17/2020						0.0002 (J)
3/23/2021	0.00014 (J)	<0.0025		0.00025 (J)	0.00036 (J)	
3/24/2021			<0.0025			<0.0025
8/23/2021	<0.0025	<0.0025				
8/24/2021			<0.0025	<0.0025	0.0017 (J)	
8/25/2021						0.00018 (J)
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	0.00049 (J)	<0.0025
8/2/2022	<0.0025	<0.0025	0.012 (o)	0.0003 (J)	0.00034 (J)	
8/3/2022						<0.0025
2/7/2023	<0.0025	<0.0025	<0.0025	0.00023 (J)	0.00069 (J)	
2/8/2023						<0.0025
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	0.00045 (J)	<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	0.00069 (J)	0.00024 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.0036 (J)	0.00359 (J)
5/6/2016		0.00311 (J)	<0.0025		
6/21/2016	<0.0025	0.0031 (J)	0.0006 (J)	0.0097 (J)	0.0033 (J)
8/15/2016				0.0098	0.0038
8/16/2016	<0.0025	0.0034	0.00064 (J)		
9/28/2016				0.0095	0.0043
9/29/2016	<0.0025	0.0032	0.00054 (J)		
11/16/2016	<0.0025	0.0032	0.00041 (J)	0.0094	0.004
1/17/2017			0.00051 (J)	0.0099	0.0051
1/18/2017	<0.0025	0.0032			
3/2/2017	<0.0025	0.0042	0.00064 (J)	0.013	0.0064
4/18/2017			0.00057 (J)	0.0086	0.005
4/19/2017		0.0035			
4/25/2017	<0.0025				
7/13/2017	<0.0025				
3/29/2018	<0.0025			0.0088	
3/30/2018		0.0037	0.00068 (J)		0.015
6/12/2018	<0.0025				
6/13/2018		0.0035	0.00048 (J)	0.0093	0.014
10/10/2018	<0.0025	0.0034	0.00063 (J)	0.012	0.018
1/29/2019	<0.0025	0.00293	<0.0025	0.0103	0.0159
3/26/2019	<0.0025	0.003	<0.0025	0.009	0.02
9/10/2019	0.00016 (J)	0.0027	0.00065	0.011	0.019
1/28/2020	<0.0025			0.008	
1/29/2020		0.003	0.00067		0.025
3/10/2020	<0.0025	0.0024 (J)	0.0005 (J)	0.0081	0.017
9/16/2020	0.0015 (J)	0.002 (J)			
9/17/2020			0.00053 (J)	0.0098	0.024
3/24/2021	<0.0025	0.0019 (J)	0.00053 (J)	0.0063	0.002 (J)
8/24/2021		0.0018 (J)	0.00034 (J)		
8/25/2021	<0.0025			0.0032	0.021
2/22/2022	<0.0025				
2/23/2022		0.0016 (J)	0.0012 (J)	0.007	0.015
8/2/2022	<0.0025				
8/3/2022			0.00051 (J)	0.0044	
8/4/2022		0.0013 (J)			0.0092
2/7/2023	<0.0025		0.0025		
2/8/2023		0.0012 (J)		0.0044	0.0019 (J)
8/1/2023			0.00054 (J)		0.0015 (J)
8/2/2023	<0.0025	0.0011 (J)		0.0031	
2/6/2024				0.0037	
2/7/2024	<0.0025	0.00099 (J)	0.00065 (J)		0.0005 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	0.879		0.48	0.694		
5/6/2016						1.07
6/20/2016	0.305 (U)	0.556 (U)	0.184			
6/21/2016				0.511 (U)		2.01
8/15/2016	0.577	0.72	0.577	0.467		
8/16/2016						1.12
9/28/2016	0.77	0.521 (U)	0.107 (U)	0.926		1.09
11/16/2016	0.427 (U)	0.322 (U)	0.333 (U)	0.863		1.58
1/16/2017	1.1					
1/17/2017		1.26	0.511 (U)	0.82		
1/19/2017						1.64
3/2/2017	1.01	0.47	0.105 (U)	0.236 (U)		1.08
4/18/2017	0.635	0.233 (U)	0.279 (U)	0.316 (U)		1.23
7/13/2017		0.679				
3/29/2018	0.799	0.723	0.37	0.6		1.21
6/12/2018	0.313 (U)	0.105 (U)	0.133 (U)			
6/13/2018				0.349 (U)		1.09
10/9/2018	1.11	0.65	0.85			
10/10/2018				1.01		1.95
1/28/2019	0.872	0.478				
1/29/2019			0.275 (U)	0.591	0.874	1.11
3/25/2019	0.526	0.717	0.629		0.646	
3/26/2019				0.4		1
9/10/2019	0.612	0.377 (U)	0.354 (U)	0.481	0.988	1.26
1/28/2020	0.322 (U)	0.528	0.0677 (U)	0.374 (U)	0.0609 (U)	
1/29/2020						1.39
3/9/2020	0.761	0.00483 (U)				
3/10/2020			0.0594 (U)	0.41 (U)	0.528	1.4
9/16/2020	0.969	0.583	0.821	-0.0651 (U)	1.13	
9/17/2020						1.79
12/7/2020				0.979		
12/8/2020						1.87
3/23/2021	0.657	0.409 (U)		0.542	0.612	
3/24/2021			0.206 (U)			1.81
8/23/2021	0.752	1.19				
8/24/2021			0.521 (U)	0.678	0.596	
8/25/2021						2.12
2/22/2022	1.06	0.837	0.511	0.594	0.728	1.85
8/2/2022	0.239 (U)	0.967	0.35 (U)	0.683	0.42 (U)	
8/3/2022						2.2
2/7/2023	0.671	0.858	0.0887 (U)	0.487 (U)	0.701	
2/8/2023						1.77
8/1/2023	0.546 (U)	1.87	0.982	1.27	1.44	1.61
2/6/2024	0.899	0.518	0.424 (U)	0.78	0.667 (U)	1.99

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.75	1.21
5/6/2016		0.633	1.41		
6/21/2016	0.292 (U)	1.19 (U)	1.71	1.01	0.895 (U)
8/15/2016				1.3	1.64
8/16/2016	0.232 (U)	0.516	1.75		
9/28/2016				1.06	2.17
9/29/2016	1.11	0.665	1.43		
11/16/2016	0.798	0.694	1.9	0.855	1.49
1/17/2017			1.9	1.59	1.75
1/18/2017	0.302 (U)	0.688			
3/2/2017	0.437	0.484	1.37	1.4	1.03
4/18/2017			1.42	0.684	1.83
4/19/2017		0.599			
4/25/2017	0.391				
7/13/2017	0.47				
3/29/2018	0.736			0.822	
3/30/2018		0.677	1.43		2.15
6/12/2018	0.438				
6/13/2018		0.272 (U)	1.27	0.716	1.51
10/10/2018	0.371	0.336	1.54	1.51	2.72
1/29/2019	0.639	0.719	1.34	1.7	1.93
3/26/2019	0.607	0.41 (U)	1.25	0.784	1.79
9/10/2019	0.939	0.548	1.6	0.958	1.78
1/28/2020	0.465			1.38	
1/29/2020		0.0985 (U)	1.44		1.61
3/10/2020	0.34 (U)	0.589	1.32	0.903	1.95
9/16/2020	1.09	1.11			
9/17/2020			0.666 (U)	1.28	1.56
12/8/2020			1.65		
3/24/2021	0.434 (U)	0.625	1.58	1.2	0.636
8/24/2021		0.313 (U)	1.65		
8/25/2021	0.563			0.767	2.13
2/22/2022	0.888				
2/23/2022		0.598	1.47	1.42	2.62
8/2/2022	1.08				
8/3/2022			2.56	1.11	
8/4/2022		0.632			1.24
2/7/2023	0.849		2.14		
2/8/2023		0.799		1.88	1.11
8/1/2023			2.07		0.872
8/2/2023	0.432 (U)	1.09		1.46	
2/6/2024				1.52	
2/7/2024	0.706	1.1	1.8		0.929

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	0.046 (J)		0.132 (J)	0.091 (J)		
5/6/2016						0.28 (J)
6/20/2016	<0.1	0.06 (J)	0.05 (J)			
6/21/2016				0.08 (J)		0.36
8/15/2016	<0.1	0.1 (J)	0.1 (J)	<0.2		
8/16/2016						0.27
9/28/2016	<0.1	0.097 (J)	0.11 (J)	0.084 (J)		0.26
11/16/2016	<0.1	0.12 (J)	0.093 (J)	0.084 (J)		0.24
1/16/2017	<0.1					
1/17/2017		0.11 (J)	0.095 (J)	0.099 (J)		
1/19/2017						0.22
3/2/2017	0.12 (J)	0.18 (J)	0.16 (J)	0.15 (J)		0.27
4/18/2017	<0.1	0.11 (J)	<0.1	<0.2		0.2
7/13/2017		0.12 (J)				
10/10/2017	<0.1	0.086 (J)	<0.1	<0.2		0.18 (J)
3/29/2018	<0.1	<0.1	0.084 (J)	<0.2		0.16 (J)
6/12/2018	<0.1	0.16 (J)	<0.1			
6/13/2018				<0.2		0.14 (J)
10/9/2018	<0.1	0.16 (J)	0.086 (J)			
10/10/2018				<0.2		0.17 (J)
1/29/2019					<0.1	
3/25/2019	<0.1	0.087 (J)	0.072 (J)		0.067 (J)	
3/26/2019				0.065 (J)		0.16
9/10/2019	0.044 (J)	0.075 (J)	0.068 (J)	0.076 (J)	0.052 (J)	0.098 (J)
3/9/2020	0.061 (J)	0.19				
3/10/2020			0.055 (J)	0.045 (J)	0.048 (J)	0.086 (J)
9/16/2020	0.042 (J)	0.18	0.08 (J)	0.076 (J)	0.078 (J)	
9/17/2020						0.15
3/23/2021	0.038 (J)	0.081 (J)		0.082 (J)	0.096 (J)	
3/24/2021			0.091 (J)			0.27
8/23/2021	0.048 (J)	0.12				
8/24/2021			0.1	0.1	0.11	
8/25/2021						0.097 (J)
2/22/2022	<0.1	<0.1	<0.1	0.034 (J)	<0.1	0.047 (J)
8/2/2022	<0.1	0.065 (J)	0.066 (J)	0.055 (J)	0.052 (J)	
8/3/2022						0.12
2/7/2023	<0.1	0.07 (J)	0.069 (J)	0.06 (J)	0.064 (J)	
2/8/2023						0.11
8/1/2023	<0.1	0.094 (J)	0.094 (J)	0.084 (J)	0.081 (J)	0.15
2/6/2024	<0.1	0.071 (J)	0.079 (J)	0.069 (J)	0.074 (J)	0.12

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.394	0.103 (J)
5/6/2016		0.088 (J)	0.086 (J)		
6/21/2016	0.14 (J)	0.19 (J)	0.23 (J)	0.49	0.1 (J)
8/15/2016				0.44	0.11 (J)
8/16/2016	0.29	0.087 (J)	<0.2		
9/28/2016				0.4	0.1 (J)
9/29/2016	0.26	<0.2	0.082 (J)		
11/16/2016	0.25	<0.2	0.087 (J)	0.36	0.091 (J)
1/17/2017			0.086 (J)	0.2	<0.082
1/18/2017	0.26	<0.2			
3/2/2017	0.28	0.15 (J)	0.15 (J)	0.36	0.16 (J)
4/18/2017			<0.2	0.29	<0.082
4/19/2017		<0.2			
4/25/2017	0.25				
7/13/2017	0.21				
10/10/2017	0.22	<0.2	<0.2	0.28	<0.082
3/29/2018	0.23			0.23	
3/30/2018		<0.2	<0.2		0.088 (J)
6/12/2018	0.23				
6/13/2018		<0.2	<0.2	0.2	0.15 (J)
10/10/2018	0.25	0.085 (J)	<0.2	0.23	0.11 (J)
3/26/2019	0.22	0.076 (J)	0.072 (J)	0.19 (J)	0.088 (J)
9/10/2019	0.2	0.07 (J)	0.073 (J)	0.15	0.083 (J)
3/10/2020	0.15	0.05 (J)	0.058 (J)	0.18	0.084 (J)
9/16/2020	0.26	0.076 (J)			
9/17/2020			0.083 (J)	0.25	0.11
3/24/2021	0.27	0.11	0.092 (J)	0.35	0.11
8/24/2021		0.095 (J)	0.11		
8/25/2021	0.19			0.15	0.038 (J)
2/22/2022	0.093 (J)				
2/23/2022		0.075 (J)	0.086 (J)	0.22	0.05 (J)
8/2/2022	0.074 (J)				
8/3/2022			0.079 (J)	0.2	
8/4/2022		0.072 (J)			0.087 (J)
2/7/2023	0.25		0.076 (J)		
2/8/2023		0.074 (J)		0.14	0.084 (J)
8/1/2023			0.1		0.11
8/2/2023	0.25	0.087 (J)		0.2	
2/6/2024				0.17	
2/7/2024	0.29	0.081 (J)	0.089 (J)		0.063 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.001		<0.001	<0.001		
5/6/2016						<0.001
6/20/2016	<0.001	8.7E-05 (J)	<0.001			
6/21/2016				<0.001		<0.001
8/15/2016	<0.001	<0.001	<0.001	<0.001		
8/16/2016						<0.001
9/28/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001		<0.001
1/16/2017	<0.001					
1/17/2017		<0.001	<0.001	<0.001		
1/19/2017						<0.001
3/2/2017	<0.001	<0.001	<0.001	<0.001		<0.001
4/18/2017	<0.001	<0.001	<0.001	<0.001		<0.001
7/13/2017		<0.001				
3/29/2018	<0.001	<0.001	<0.001	<0.001		<0.001
1/28/2019	<0.001	<0.001				
1/29/2019			<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001	0.00016 (J)	0.00018 (J)	<0.001	<0.001	
1/29/2020						<0.001
3/9/2020	<0.001	<0.001				
3/10/2020			<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001	
9/17/2020						<0.001
3/23/2021	0.00013 (J)	0.00013 (J)		<0.001	<0.001	
3/24/2021			<0.001			<0.001
8/23/2021	<0.001	<0.001				
8/24/2021			<0.001	<0.001	<0.001	
8/25/2021						<0.001
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/3/2022						<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023						<0.001
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.001	<0.001
5/6/2016		<0.001	<0.001		
6/21/2016	0.0001 (J)	<0.001	<0.001	0.0003 (J)	<0.001
8/15/2016				<0.001	<0.001
8/16/2016	<0.001	<0.001	<0.001		
9/28/2016				<0.001	<0.001
9/29/2016	<0.001	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/17/2017			<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001			
3/2/2017	<0.001	<0.001	<0.001	<0.001	<0.001
4/18/2017			<0.001	<0.001	<0.001
4/19/2017		<0.001			
4/25/2017	<0.001				
7/13/2017	<0.001				
3/29/2018	<0.001			<0.001	
3/30/2018		<0.001	<0.001		<0.001
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001			<0.001	
1/29/2020		<0.001	<0.001		<0.001
3/10/2020	<0.001	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001			
9/17/2020			<0.001	<0.001	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001	<0.001		
8/25/2021	<0.001			0.00019 (J)	0.00022 (J)
2/22/2022	<0.001				
2/23/2022		<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001				
8/3/2022			<0.001	0.00021 (J)	
8/4/2022		<0.001			<0.001
2/7/2023	<0.001		<0.001		
2/8/2023		<0.001		<0.001	<0.001
8/1/2023			<0.001		<0.001
8/2/2023	<0.001	<0.001		<0.001	
2/6/2024				<0.001	
2/7/2024	<0.001	0.00027 (J)	<0.001		<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.05		<0.05	<0.005		
5/6/2016						0.0128 (J)
6/20/2016	0.0071 (J)	0.014 (J)	0.0065 (J)			
6/21/2016				<0.005		0.0102 (J)
8/15/2016	0.0065	0.02	0.0059	<0.005		
8/16/2016						0.012
9/28/2016	0.0075	0.019	0.0075	<0.005		0.012
11/16/2016	0.0081	0.021	0.0094	<0.005		0.013
1/16/2017	0.0076					
1/17/2017		0.02	0.01	<0.005		
1/19/2017						0.011
3/2/2017	0.0073	0.019	0.0076	<0.005		0.013
4/18/2017	0.006	0.016	0.008	<0.005		0.0097
7/13/2017		0.011				
3/29/2018	0.01 (J)	0.03 (J)	0.014 (J)	<0.005		0.017 (J)
6/12/2018	0.0068	0.012	0.0095			
6/13/2018				<0.005		0.0094
10/9/2018	0.0082	0.015	0.011			
10/10/2018				<0.005		0.011
1/28/2019	0.00821	0.0124				
1/29/2019			0.00987	<0.005	0.0184	0.0109
3/25/2019	0.0068	0.026	0.01		0.0052	
3/26/2019				<0.005		0.01
9/10/2019	0.011	0.026	0.011	0.0051	0.0062	0.012
1/28/2020	0.0064	0.026	0.0093	<0.005	<0.005	
1/29/2020						0.0096
3/9/2020	0.0088	0.017				
3/10/2020			0.011	<0.005	<0.005	<0.025
9/16/2020	0.0079	0.014	0.0094	<0.005	<0.005	
9/17/2020						0.0086
3/23/2021	0.0084	0.026		<0.005	<0.005	
3/24/2021			0.0097			0.013
8/23/2021	0.0075	0.018				
8/24/2021			0.0093	<0.005	<0.005	
8/25/2021						0.0096
2/22/2022	0.0079	0.027	0.011	<0.005	0.0012 (J)	0.01
8/2/2022	0.0071	0.025	0.0097	<0.005	<0.005	
8/3/2022						0.01
2/7/2023	0.0081	0.022	0.011	<0.005	<0.005	
2/8/2023						0.01
8/1/2023	0.0053	0.024	0.0077	<0.005	<0.005	0.0084
2/6/2024	0.0083	0.037	0.0058	0.006	<0.005	0.0084

Time Series

Constituent: Lithium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.0586	0.0252 (J)
5/6/2016		<0.05	0.0113 (J)		
6/21/2016	0.0112 (J)	0.0047 (J)	0.0103 (J)	0.122	0.0228 (J)
8/15/2016				0.12	0.026
8/16/2016	0.014	0.0043 (J)	0.01		
9/28/2016				0.12	0.026
9/29/2016	0.017	0.0048 (J)	0.01		
11/16/2016	0.016	0.0058	0.014	0.13	0.031
1/17/2017			0.014	0.14	0.032
1/18/2017	0.015	0.0051			
3/2/2017	0.015	0.0061	0.013	0.13	0.031
4/18/2017			0.01	0.11	0.023
4/19/2017		0.0042 (J)			
4/25/2017	0.013				
7/13/2017	0.014				
3/29/2018	0.032 (J)			0.17 (J)	
3/30/2018		0.008 (J)	0.017 (J)		0.058 (J)
6/12/2018	0.019				
6/13/2018		0.0054	0.011	0.12	0.035
10/10/2018	0.027	0.0055	0.013	0.13	0.046
1/29/2019	0.0172	0.00537	0.0106	0.112	0.0361
3/26/2019	0.02	0.0051	0.012	0.12	0.043
9/10/2019	0.023	0.0074	0.015	0.11	0.042
1/28/2020	0.022			0.13	
1/29/2020		0.0059	0.012		0.037
3/10/2020	0.018	0.0068	0.014	0.11	0.028
9/16/2020	0.025	0.0055			
9/17/2020			0.012	0.11	0.039
3/24/2021	0.018	0.0066	0.013	0.13	0.011
8/24/2021		0.0062	0.012		
8/25/2021	0.017			0.12	0.037
2/22/2022	0.022				
2/23/2022		0.0066	0.013	0.13	0.028
8/2/2022	0.026				
8/3/2022			0.013	0.13	
8/4/2022		0.0063			0.021
2/7/2023	0.024		0.014		
2/8/2023		0.0065		0.14	0.012
8/1/2023			0.011		0.012
8/2/2023	0.019	0.0031 (J)		0.13	
2/6/2024				0.12	
2/7/2024	0.03	0.0051	0.0081		0.0076

Time Series

Constituent: Mercury (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.0002		<0.0002	<0.0002		
5/6/2016						<0.0002
6/20/2016	<0.0002	<0.0002	<0.0002			
6/21/2016				<0.0002		<0.0002
8/15/2016	<0.0002	8E-05 (J)	<0.0002	<0.0002		
8/16/2016						<0.0002
9/28/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/16/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/16/2017	<0.0002					
1/17/2017		<0.0002	<0.0002	<0.0002		
1/19/2017						<0.0002
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
4/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
7/13/2017		<0.0002				
3/29/2018	<0.0002	8.6E-05 (J)	<0.0002	7.4E-05 (J)		<0.0002
6/12/2018	<0.0002	<0.0002	<0.0002			
6/13/2018				<0.0002		<0.0002
10/9/2018	<0.0002	<0.0002	<0.0002			
10/10/2018				<0.0002		<0.0002
1/28/2019	<0.0002	<0.0002				
1/29/2019			<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/29/2020						<0.0002
3/9/2020	<0.0002	<0.0002				
3/10/2020			<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/17/2020						<0.0002
3/23/2021	<0.0002	<0.0002		<0.0002	<0.0002	
3/24/2021			<0.0002			<0.0002
8/23/2021	<0.0002	<0.0002				
8/24/2021			<0.0002	<0.0002	<0.0002	
8/25/2021						<0.0002
2/22/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/3/2022						<0.0002
2/7/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/8/2023						<0.0002
8/1/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/6/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.0002	<0.0002
5/6/2016		<0.0002	<0.0002		
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/15/2016				<0.0002	0.00015 (J)
8/16/2016	<0.0002	7.8E-05 (J)	<0.0002		
9/28/2016				<0.0002	<0.0002
9/29/2016	<0.0002	<0.0002	<0.0002		
11/16/2016	8.6E-05 (J)	0.0001 (J)	7E-05 (J)	8E-05 (J)	0.00021
1/17/2017			<0.0002	<0.0002	7.6E-05 (J)
1/18/2017	<0.0002	<0.0002			
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017			<0.0002	<0.0002	0.00018 (J)
4/19/2017		<0.0002			
4/25/2017	<0.0002				
7/13/2017	<0.0002				
3/29/2018	7.4E-05 (J)			<0.0002	
3/30/2018		<0.0002	<0.0002		0.00013 (J)
6/12/2018	<0.0002				
6/13/2018		<0.0002	<0.0002	<0.0002	0.00074
10/10/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.00013 (J)
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020	<0.0002			<0.0002	
1/29/2020		<0.0002	<0.0002		0.00012 (J)
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002			
9/17/2020			<0.0002	<0.0002	0.00014 (J)
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2021		<0.0002	<0.0002		
8/25/2021	<0.0002			<0.0002	0.0041
10/26/2021					<0.0002
2/22/2022	<0.0002				
2/23/2022		<0.0002	<0.0002	<0.0002	0.00028
8/2/2022	<0.0002				
8/3/2022			<0.0002	<0.0002	
8/4/2022		<0.0002			0.00068
2/7/2023	<0.0002		<0.0002		
2/8/2023		<0.0002		<0.0002	0.00026
8/1/2023			<0.0002		0.00014 (J)
8/2/2023	<0.0002	<0.0002		<0.0002	
2/6/2024				<0.0002	
2/7/2024	<0.0002	<0.0002	<0.0002		0.00052

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.015		0.0026 (J)	<0.015		
5/6/2016						0.0021 (J)
6/20/2016	0.00031 (J)	0.0052 (J)	0.0014 (J)			
6/21/2016				<0.015		0.002 (J)
8/15/2016	<0.015	0.0022 (J)	0.0013 (J)	<0.015		
8/16/2016						0.0019 (J)
9/28/2016	<0.015	0.0018 (J)	0.0012 (J)	<0.015		0.0018 (J)
11/16/2016	<0.015	<0.015	<0.015	<0.015		<0.075
1/16/2017	<0.015					
1/17/2017		0.0011 (J)	<0.015	<0.015		
1/19/2017						0.0011 (J)
3/2/2017	<0.015	<0.015	<0.015	<0.015		0.0012 (J)
4/18/2017	<0.015	<0.015	<0.015	<0.015		0.0013 (J)
7/13/2017		<0.015				
3/29/2018	<0.015	<0.015	<0.015	<0.015		0.0017 (J)
6/12/2018	0.0012 (J)	0.0029 (J)	<0.015			
6/13/2018				<0.015		0.00087 (J)
10/9/2018	<0.015	<0.015	<0.015			
10/10/2018				<0.015		<0.075
1/28/2019	<0.015	<0.015				
1/29/2019			<0.015	<0.015	<0.015	<0.075
1/28/2020	0.00064 (J)	0.00085 (J)	0.00095 (J)	<0.015	0.0014 (J)	
1/29/2020						0.0015 (J)
3/9/2020	<0.015	0.0012 (J)				
3/10/2020			0.00093 (J)	<0.015	0.0012 (J)	<0.075
9/16/2020	0.0022 (J)	0.0019 (J)	0.00079 (J)	<0.015	0.0014 (J)	
9/17/2020						0.0012 (J)
3/23/2021	<0.015	0.00093 (J)		<0.015	0.00089 (J)	
3/24/2021			0.00089 (J)			0.0029 (J)
8/23/2021	0.0016 (J)	0.0012 (J)				
8/24/2021			<0.015	<0.015	0.0011 (J)	
8/25/2021						0.00088 (J)
2/22/2022	<0.015	0.001 (J)	0.00091 (J)	<0.015	0.00078 (J)	0.0014 (J)
8/2/2022	<0.015	<0.015	<0.015	<0.015	0.0015 (J)	
8/3/2022						0.0011 (J)
2/7/2023	<0.015	0.00098 (J)	<0.015	<0.015	<0.015	
2/8/2023						0.0012 (J)
8/1/2023	<0.015	<0.015	<0.015	<0.015	0.0014 (J)	0.0012 (J)
2/6/2024	<0.015	<0.015	<0.015	<0.015	<0.015	0.00099 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				0.00351 (J)	<0.015
5/6/2016		<0.015	<0.015		
6/21/2016	0.002 (J)	<0.015	<0.015	<0.015	<0.015
8/15/2016				<0.015	<0.015
8/16/2016	0.0012 (J)	<0.015	<0.015		
9/28/2016				<0.015	<0.015
9/29/2016	0.0014 (J)	<0.015	<0.015		
11/16/2016	<0.015	<0.015	<0.015	<0.015	<0.015
1/17/2017			<0.015	<0.015	<0.015
1/18/2017	<0.015	<0.015			
3/2/2017	<0.015	<0.015	<0.015	<0.015	<0.015
4/18/2017			<0.015	<0.015	0.0037 (J)
4/19/2017		<0.015			
4/25/2017	<0.015				
7/13/2017	<0.015				
3/29/2018	<0.015			<0.015	
3/30/2018		<0.015	<0.015		<0.015
6/12/2018	<0.015				
6/13/2018		<0.015	<0.015	<0.015	<0.015
10/10/2018	<0.015	<0.015	<0.015	<0.015	<0.015
1/29/2019	<0.015	<0.015	<0.015	<0.015	<0.015
1/28/2020	<0.015			<0.015	
1/29/2020		<0.015	<0.015		<0.015
3/10/2020	<0.015	<0.015	<0.015	<0.015	<0.015
9/16/2020	0.0024 (J)	<0.015			
9/17/2020			<0.015	<0.015	<0.015
3/24/2021	<0.015	<0.015	<0.015	<0.015	<0.015
8/24/2021		<0.015	<0.015		
8/25/2021	<0.015			<0.015	<0.015
2/22/2022	0.00064 (J)				
2/23/2022		<0.015	<0.015	<0.015	<0.015
8/2/2022	0.00093 (J)				
8/3/2022			<0.015	<0.015	
8/4/2022		<0.015			<0.015
2/7/2023	<0.015		<0.015		
2/8/2023		<0.015		<0.015	<0.015
8/1/2023			<0.015		<0.015
8/2/2023	<0.015	<0.015		<0.015	
2/6/2024				<0.015	
2/7/2024	<0.015	<0.015	<0.015		<0.015

Time Series

Constituent: pH (SU) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	5.94		7.4	7.13		
5/6/2016						6.64
6/20/2016	5.84 (D)	7.82	7.63			
6/21/2016				7.25		6.99
8/15/2016	5.65	7.52	7.54	7.04		
8/16/2016						6.48
9/28/2016	5.72	7.66	7.45	7.09		6.7
11/16/2016	5.65	7.51	7.39	7.6		6.66
1/16/2017	5.52					
1/17/2017		7.52	7.23	6.99		
1/19/2017						6.81
3/2/2017	5.53	7.5	7.55	6.95		6.75
4/18/2017	5.64	7.75	7.43	7.02		6.93
7/13/2017		7.72				
10/10/2017			5.62	7.27		6.99
10/11/2017	6.11	6.35				
3/29/2018	5.35	7.42	7.19	6.95		6.82
6/12/2018	6.23	8.02	7.55			
6/13/2018				7.08		7.01
10/9/2018	5.62 (D)	7.79 (D)	7.8 (D)			
10/10/2018				7.01 (D)		7.04 (D)
1/28/2019	5.49 (D)	7.4 (D)				
1/29/2019			7.63 (D)	6.55 (D)	6.93 (D)	6.87 (D)
3/25/2019	5.27 (D)	7.29 (D)	7.44 (D)		7.1 (D)	
3/26/2019				6.57 (D)		7.01 (D)
9/10/2019	5.97	7.54	7.41	6.99	7.15	7.09
1/28/2020	5.78	7.4	7.46	7.17	7.36	
1/29/2020						7.19
3/9/2020	5.46	7.58				
3/10/2020			7.3	7	7.04	7.11
9/16/2020	6.37	7.89	7.38	6.98	6.89	
9/17/2020						6.95
12/7/2020				7.2		
12/8/2020						7.41
3/23/2021	5	7.06		6.74	6.56	
3/24/2021			6.88			7.14
8/23/2021	6.16	8.12				
8/24/2021			7.78	7.11	7.28	
8/25/2021						7.27
2/22/2022	5.38	7.6	7.57	7.14	7.2	7.32
8/2/2022	5.41	7.57	7.45	7.1	7.27	
8/3/2022						7.23
2/7/2023	5.46	7.72	7.85	7.13	7.24	
2/8/2023						7.28
8/1/2023	5.46	7.61	7.52	7.14	7.2	7.3
2/6/2024	5.52	7.86	7.67	7.07	7.23	7.47

Time Series

Constituent: pH (SU) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				7.81	5.96
5/6/2016		7.41	6.85		
6/21/2016	7.61	7.41	6.98	7.2	6
8/15/2016				7.04	5.26
8/16/2016	7.17	7.33	6.73		
9/28/2016				7	5.66
9/29/2016	6.97	7.42	6.81		
11/16/2016	7.03	7.87	6.69	6.73	5.33
1/17/2017			6.77	6.61	5.24
1/18/2017	7.01	7.49			
3/2/2017	7.02	7.37	6.79	6.62	5.21
4/18/2017			6.77	6.7	5.85
4/19/2017		7.48			
4/25/2017	7.02				
7/13/2017	7.17				
10/10/2017	7.24	7.29	7	6.48	5.6
3/29/2018	6.93			6.46	
3/30/2018		7.31	6.68		5.16
6/12/2018	7.29				
6/13/2018		7.37	6.83	6.24	5.79
10/10/2018	7.12 (D)	7.41 (D)	6.69 (D)	6.12 (D)	5.15 (D)
1/29/2019	8.02 (D)	7.03 (D)	6.42 (D)	5.93 (D)	5.46 (D)
3/26/2019	7.29 (D)	6.68 (D)	5.96 (D)	5.19 (D)	7.14 (D)
9/10/2019	10.96 (o)	7.26	6.67	6.03	5.1
1/28/2020	7.25			6.61	
1/29/2020		7.3	6.68		5.76
3/10/2020	7.53	7.3	6.87	6.54	5.5
9/16/2020	11.03 (o)	7.16			
9/17/2020			6.68	6.39	5.22
12/8/2020			7.04		
3/24/2021	7.15	7.24	6.73	6.26	6.71
8/24/2021		7.42	6.92		
8/25/2021	7.44			6.85	5.26
10/26/2021					5.99
2/22/2022	7.41				
2/23/2022		7.44	6.98	6.91	6.22
8/2/2022	7.06				
8/3/2022			6.91	6.86	
8/4/2022		7.37			6.5
2/7/2023	6.95		7.01		
2/8/2023		7.44		7.43	6.76
8/1/2023			7.09		6.77
8/2/2023	7.2	7.31		6.9	
2/6/2024				7.81	
2/7/2024	6.83	7.71	7.49		7

Time Series

Constituent: Selenium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.005		<0.005	<0.005		
5/6/2016						<0.005
6/20/2016	<0.005	<0.005	<0.005			
6/21/2016				<0.005		<0.005
8/15/2016	0.00062 (J)	<0.005	<0.005	<0.005		
8/16/2016						<0.005
9/28/2016	0.0003 (J)	<0.005	<0.005	<0.005		<0.005
11/16/2016	<0.005	<0.005	<0.005	<0.005		<0.005
1/16/2017	<0.005					
1/17/2017		<0.005	<0.005	<0.005		
1/19/2017						<0.005
3/2/2017	<0.005	<0.005	<0.005	<0.005		<0.005
4/18/2017	<0.005	<0.005	<0.005	<0.005		<0.005
7/13/2017		<0.005				
3/29/2018	0.00027 (J)	<0.005	<0.005	<0.005		0.0005 (J)
6/12/2018	0.00076 (J)	0.00049 (J)	<0.005			
6/13/2018				<0.005		<0.005
10/9/2018	0.00054 (J)	<0.005	<0.005			
10/10/2018				<0.005		<0.005
1/28/2019	<0.005	<0.005				
1/29/2019			<0.005	<0.005	<0.005	<0.005
1/28/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
1/29/2020						<0.005
2/22/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
8/3/2022						<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023						<0.005
8/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/6/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.005	<0.005
5/6/2016		<0.005	<0.005		
6/21/2016	<0.005	<0.005	<0.005	<0.005	<0.005
8/15/2016				<0.005	0.00033 (J)
8/16/2016	<0.005	<0.005	<0.005		
9/28/2016				<0.005	0.00038 (J)
9/29/2016	<0.005	<0.005	<0.005		
11/16/2016	<0.005	<0.005	<0.005	<0.005	<0.005
1/17/2017			<0.005	<0.005	<0.005
1/18/2017	<0.005	<0.005			
3/2/2017	<0.005	<0.005	<0.005	<0.005	<0.005
4/18/2017			<0.005	<0.005	0.0024
4/19/2017		<0.005			
4/25/2017	<0.005				
7/13/2017	<0.005				
3/29/2018	0.00027 (J)			0.00026 (J)	
3/30/2018		0.00045 (J)	0.00044 (J)		0.00027 (J)
6/12/2018	<0.005				
6/13/2018		<0.005	<0.005	<0.005	<0.005
10/10/2018	<0.005	<0.005	<0.005	<0.005	<0.005
1/29/2019	<0.005	<0.005	<0.005	<0.005	<0.005
1/28/2020	<0.005			<0.005	
1/29/2020		<0.005	<0.005		<0.005
2/22/2022	<0.005				
2/23/2022		<0.005	<0.005	<0.005	<0.005
8/2/2022	<0.005				
8/3/2022			<0.005	<0.005	
8/4/2022		<0.005			<0.005
2/7/2023	<0.005		<0.005		
2/8/2023		<0.005		<0.005	<0.005
8/1/2023			<0.005		<0.005
8/2/2023	<0.005	<0.005		<0.005	
2/6/2024				<0.005	
2/7/2024	<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	2.46		4.47	17.8		
5/6/2016						106
6/20/2016	2.5	1	7.7			
6/21/2016				17		210
8/15/2016	1.9	0.73 (J)	7.5	20		
8/16/2016						120
9/28/2016	1.9	<1.3	7.8	21		110
11/16/2016	1.7	<1.3	6.7	20		130
1/16/2017	<1					
1/17/2017		<1.3	6.7	19		
1/19/2017						160
3/2/2017	1.4	<1.3	5.6	15		130
4/18/2017	1.3	<1.3	5.1	14		120
7/13/2017		1.4				
10/10/2017	1.1	0.87 (J)	4.9	11		170
6/12/2018	0.82 (J)	4.1	3.8			
6/13/2018				8.7		130
10/9/2018	0.82 (J)	2.2	6.7			
10/10/2018				8.7		140
1/29/2019					7.08	
3/25/2019	<1	<1.3	3.4 (J)		1.8 (J)	
3/26/2019				6.3 (J)		130
9/10/2019	1.1	1.8	4.7	5.6	0.6 (J)	140
3/9/2020	4.2	3.4				
3/10/2020			5.2	5	2.4	140
9/16/2020	0.69 (J)	3	3.2	2.7	1	
9/17/2020						150
3/23/2021	<1	1.4		3.2	1.7	
3/24/2021			3.5			120
8/23/2021	<1	3.4				
8/24/2021			3.6	3.5	3.3	
8/25/2021						140
2/22/2022	<1	1.1	3.2	5.4	2.1	150
8/2/2022	<1	0.8 (J)	2.7	2.3	2.1	
8/3/2022						140
2/7/2023	<1	3.3	2.5	2.3	1.6	
2/8/2023						140
8/1/2023	0.56 (J)	1	2.9	3.2	4	140
2/6/2024	<1	0.82 (J)	2.4	2.8	2.4	140

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				116	144
5/6/2016		445	94.2		
6/21/2016	4	290	95	170	160
8/15/2016				170	120
8/16/2016	2.8	270	88		
9/28/2016				170	130
9/29/2016	<1	280	94		
11/16/2016	3	280	97	170	130
1/17/2017			100	180	150
1/18/2017	4.1	280			
3/2/2017	4.6	240	100	180	160
4/18/2017			91	160	180
4/19/2017		250			
4/25/2017	4.4				
7/13/2017	4.8				
10/10/2017	4.9	240	110	180	260
6/12/2018	4.1				
6/13/2018		220	110	180	330
10/10/2018	2.5	220	110	190	410
3/26/2019	2.9 (J)	190	110	180	420
9/10/2019	2.5	180	110	180	420
3/10/2020	7.8	170	130	170	370
9/16/2020	4.4	160			
9/17/2020			120	160	380
3/24/2021	7.1	180	130	180	280
8/24/2021		160	130		
8/25/2021	6.6			180	420
2/22/2022	4.8				
2/23/2022		180	150	260	390
8/2/2022	3.1				
8/3/2022			130	220	
8/4/2022		150			350
2/7/2023	4.7		120		
2/8/2023		150		220	280
8/1/2023			110		280
8/2/2023	4.6	150		200	
2/6/2024				200	
2/7/2024	8.2	150	94		310

Time Series

Constituent: TDS (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	78		129	281		
5/6/2016						282
6/20/2016	80	188	156			
6/21/2016				303		516
8/15/2016	58	180	160	310		
8/16/2016						360
9/28/2016	29	100	91	170		190
11/16/2016	140	270	250	340		410
1/16/2017	36					
1/17/2017		170	140	310		
1/19/2017						400
3/2/2017	78	210	170	330		360
4/18/2017	16	160	140	290		360
7/13/2017		150				
10/10/2017	78	210	190	310		480
6/12/2018	62	150	180			
6/13/2018				230		390
10/9/2018	68	150	170			
10/10/2018				300		260
1/29/2019					280	
3/25/2019	54	210	150		250	
3/26/2019				290		370
9/10/2019	14	160	110	260	230	360
3/9/2020	56	190				
3/10/2020			170	300	260	450
9/16/2020	44	150	150	300	320	
9/17/2020						460
3/23/2021	53	220		300	270	
3/24/2021			150			380
8/23/2021	55	200				
8/24/2021			160	300	280	
8/25/2021						470
2/22/2022	38	210	150	300	270	420
8/2/2022	65	210	270	200	100 (D)	
8/3/2022						440
2/7/2023	61	190	150	290	260	
2/8/2023						400
8/1/2023	57	300	170	330	360	450
2/6/2024	57	210	150	280	260	420

Time Series

Constituent: TDS (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				272	287
5/6/2016		661	380		
6/21/2016	177	692	392	356	297
8/15/2016				330	230
8/16/2016	160	650	360		
9/28/2016				180	130
9/29/2016	190	640	380		
11/16/2016	240	680	420	330	290
1/17/2017			380	310	240
1/18/2017	180	630			
3/2/2017	170	660	410	340	270
4/18/2017			360	300	310
4/19/2017		600			
4/25/2017	170				
7/13/2017	150				
10/10/2017	160	600	400	340	450
6/12/2018	170				
6/13/2018		570	320	320	600
10/10/2018	48	470	300	270	410
3/26/2019	180	530	370	320	630
9/10/2019	140	470	360	260	660
3/10/2020	170	540	390	370	600
9/16/2020	190	530			
9/17/2020			410	320	740
3/24/2021	190	490	430	330	530
8/24/2021		510	450		
8/25/2021	230			390	720
2/22/2022	190				
2/23/2022		490	450	390	630
8/2/2022	150				
8/3/2022			430	400	
8/4/2022		480			620
2/7/2023	190		410		
2/8/2023		440		370	480
8/1/2023			420		570
8/2/2023	200	520		410	
2/6/2024				350	
2/7/2024	200	450	370		590

Time Series

Constituent: Thallium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1
5/5/2016	<0.001		<0.001	<0.001		
5/6/2016						<0.001
6/20/2016	<0.001	<0.001	<0.001			
6/21/2016				0.0001 (J)		9E-05 (J)
8/15/2016	<0.001	<0.001	<0.001	<0.001		
8/16/2016						<0.001
9/28/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001		<0.001
1/16/2017	<0.001					
1/17/2017		<0.001	<0.001	<0.001		
1/19/2017						<0.001
3/2/2017	<0.001	<0.001	<0.001	<0.001		<0.001
4/18/2017	<0.001	<0.001	<0.001	<0.001		9.5E-05 (J)
7/13/2017		<0.001				
3/29/2018	<0.001	<0.001	<0.001	<0.001		0.00014 (J)
6/12/2018	<0.001	<0.001	<0.001			
6/13/2018				<0.001		<0.001
10/9/2018	<0.001	<0.001	<0.001			
10/10/2018				<0.001		<0.001
1/28/2019	<0.001	<0.001				
1/29/2019			<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001	0.00033 (J)	<0.001	0.00027 (J)	<0.001	
1/29/2020						0.00032 (J)
3/9/2020	0.00058 (J)	0.00036 (J)				
3/10/2020			0.00015 (J)	0.00019 (J)	<0.001	<0.001
9/16/2020	<0.001	0.00041 (J)	0.00018 (J)	0.00021 (J)	<0.001	
9/17/2020						0.00016 (J)
3/23/2021	0.00046 (J)	0.00051 (J)		0.00025 (J)	<0.001	
3/24/2021			<0.001			<0.001
8/23/2021	<0.001	0.0004 (J)				
8/24/2021			<0.001	0.00017 (J)	<0.001	
8/25/2021						<0.001
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/3/2022						<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023						<0.001
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

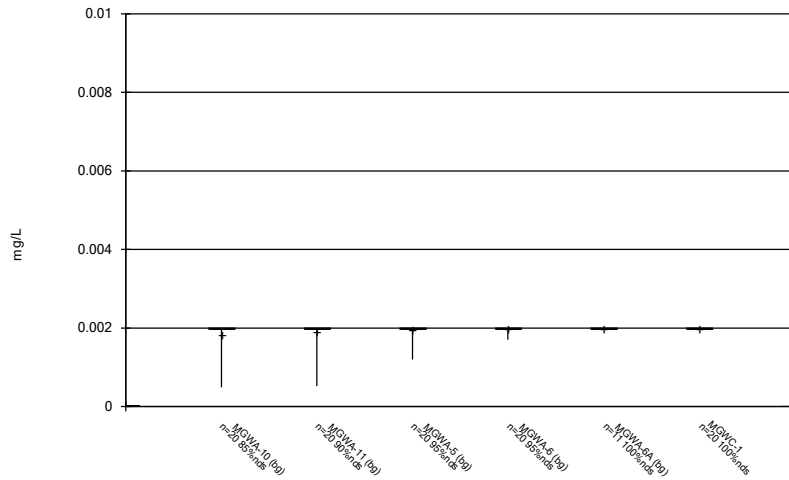
Constituent: Thallium (mg/L) Analysis Run 3/15/2024 3:15 PM View: Desc.

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.001	<0.001
5/6/2016		<0.001	<0.001		
6/21/2016	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
8/15/2016				<0.001	0.00016 (J)
8/16/2016	<0.001	<0.001	<0.001		
9/28/2016				<0.001	0.00014 (J)
9/29/2016	<0.001	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001	9E-05 (J)
1/17/2017			<0.001	<0.001	0.00016 (J)
1/18/2017	<0.001	<0.001			
3/2/2017	<0.001	<0.001	<0.001	<0.001	0.00018 (J)
4/18/2017			<0.001	<0.001	0.00019 (J)
4/19/2017		<0.001			
4/25/2017	<0.001				
7/13/2017	<0.001				
3/29/2018	<0.001			<0.001	
3/30/2018		<0.001	<0.001		0.00027 (J)
6/12/2018	<0.001				
6/13/2018		<0.001	<0.001	<0.001	0.00027 (J)
10/10/2018	<0.001	<0.001	<0.001	<0.001	0.00025 (J)
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001			<0.001	
1/29/2020		0.00021 (J)	0.00037 (J)		0.00042 (J)
3/10/2020	0.00015 (J)	<0.001	0.00016 (J)	<0.001	0.00025 (J)
9/16/2020	0.00027 (J)	<0.001			
9/17/2020			<0.001	<0.001	0.00031 (J)
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001	<0.001		
8/25/2021	<0.001			<0.001	0.0004 (J)
2/22/2022	<0.001				
2/23/2022		<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001				
8/3/2022			<0.001	<0.001	
8/4/2022		<0.001			<0.001
2/7/2023	<0.001		<0.001		
2/8/2023		<0.001		<0.001	<0.001
8/1/2023			<0.001		<0.001
8/2/2023	<0.001	<0.001		<0.001	
2/6/2024				<0.001	
2/7/2024	<0.001	<0.001	<0.001		<0.001

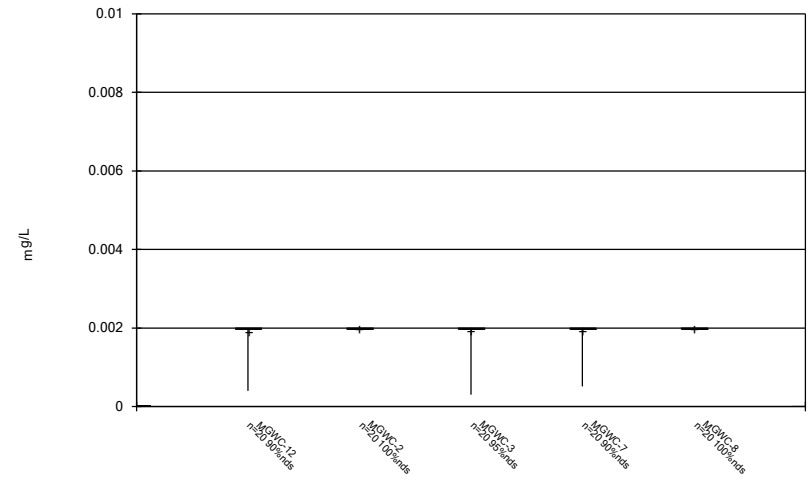
FIGURE B.

Box & Whiskers Plot



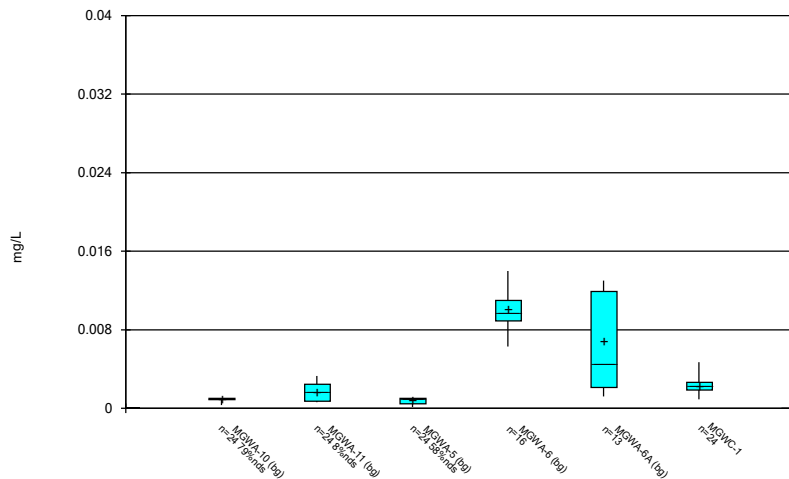
Constituent: Antimony Analysis Run 3/19/2024 12:04 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



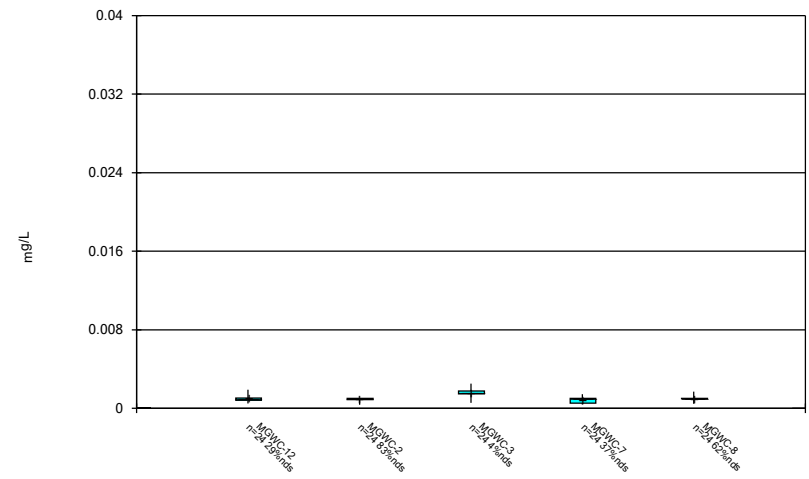
Constituent: Antimony Analysis Run 3/19/2024 12:05 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



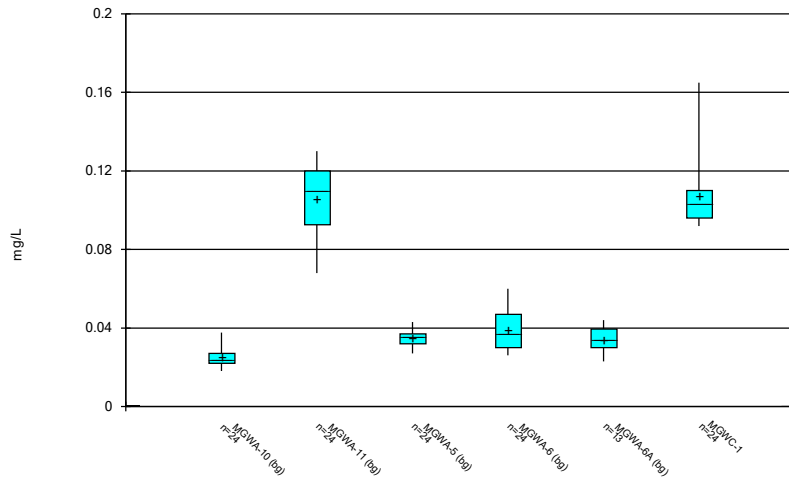
Constituent: Arsenic Analysis Run 3/19/2024 12:05 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



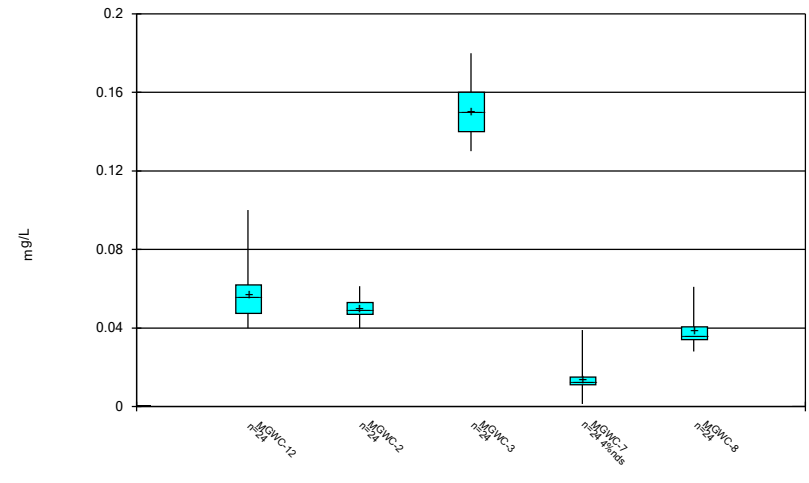
Constituent: Arsenic Analysis Run 3/19/2024 12:05 PM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



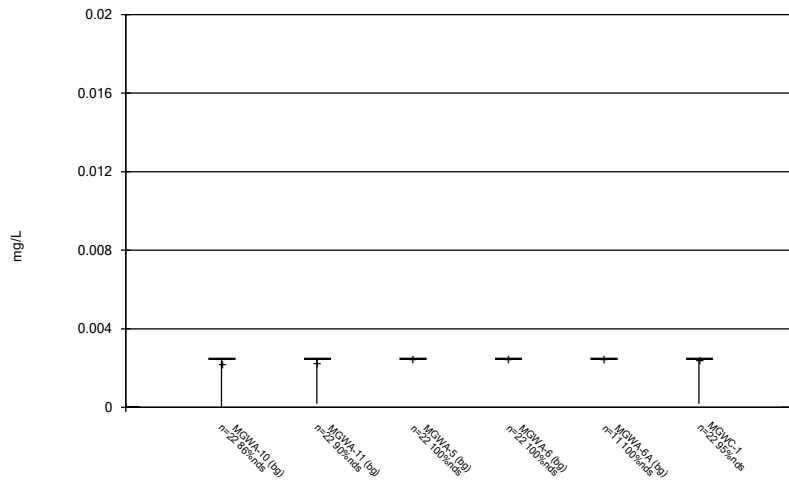
Constituent: Barium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



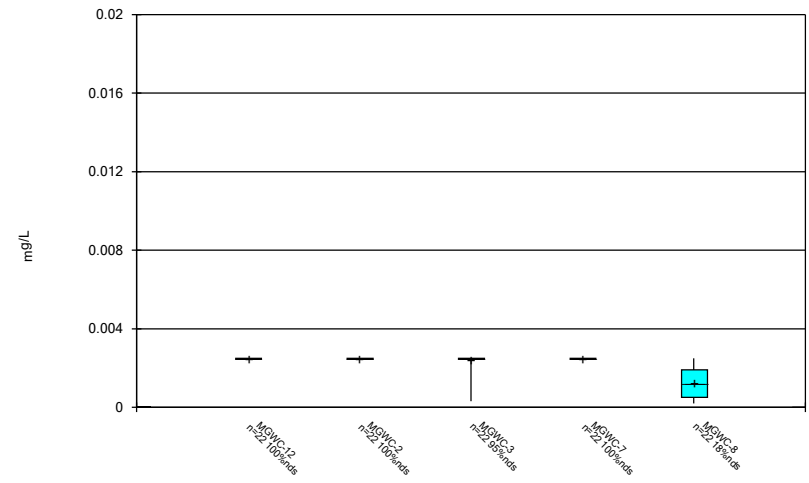
Constituent: Barium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



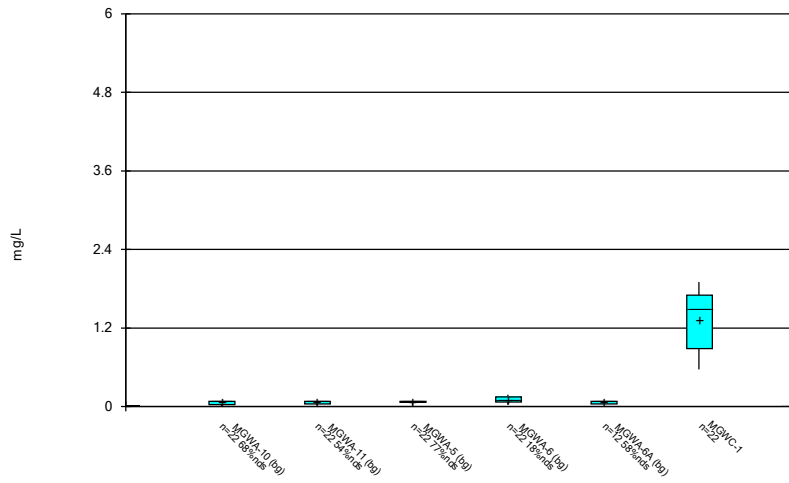
Constituent: Beryllium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



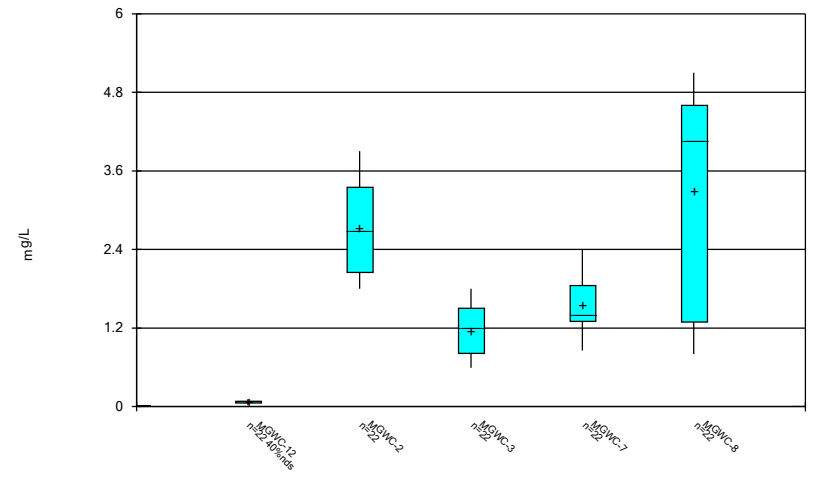
Constituent: Beryllium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



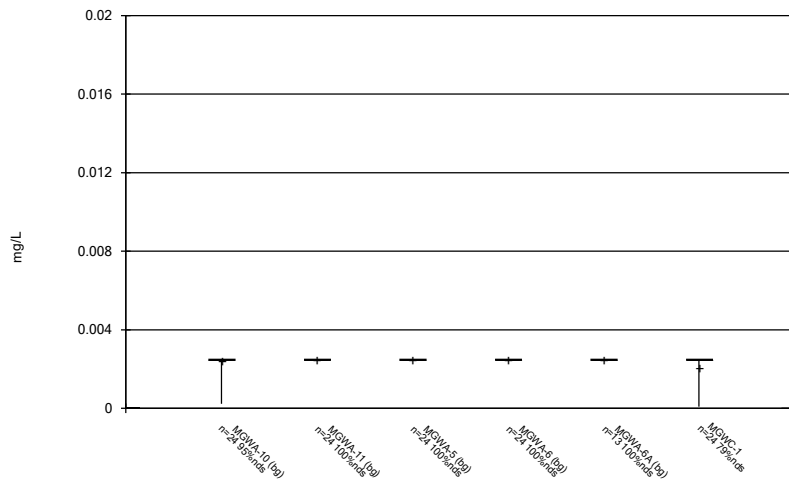
Constituent: Boron Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



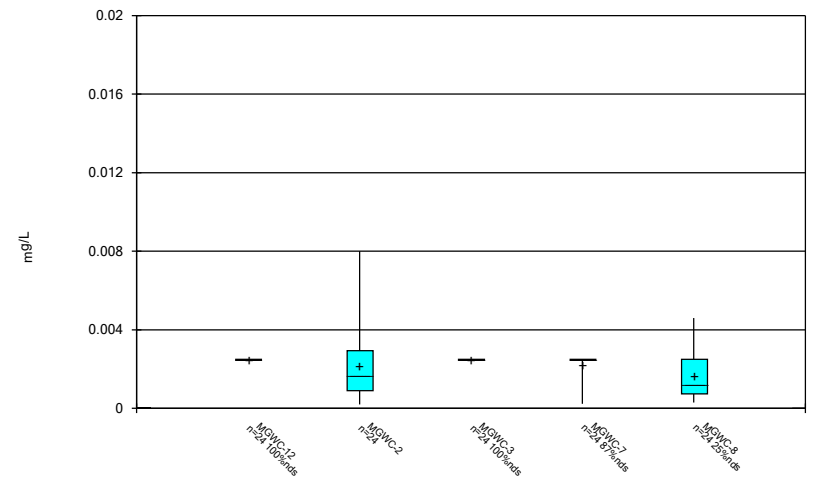
Constituent: Boron Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



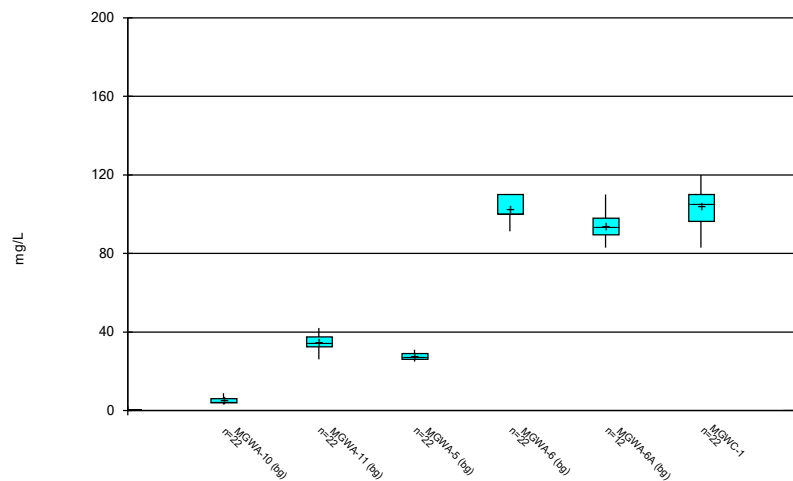
Constituent: Cadmium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



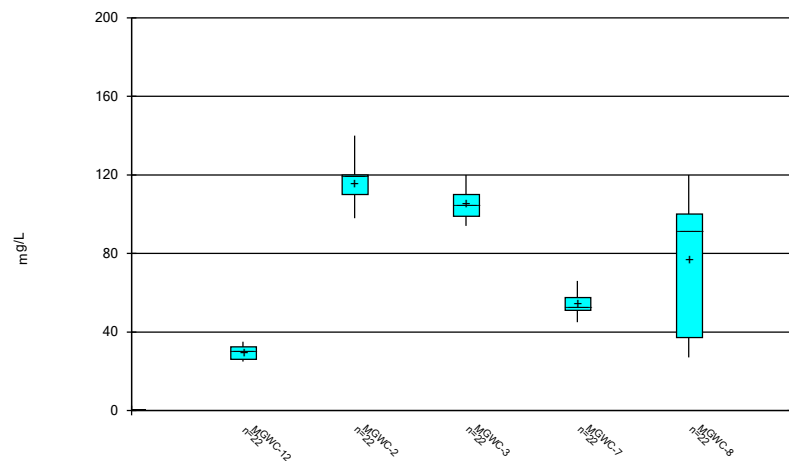
Constituent: Cadmium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



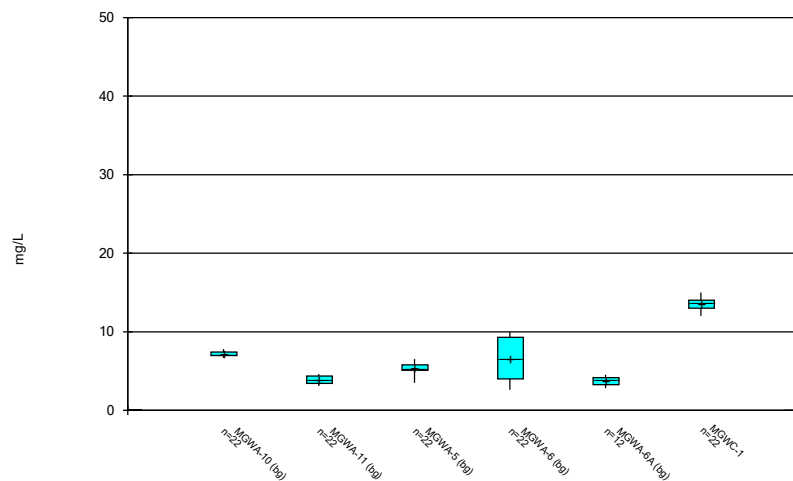
Constituent: Calcium Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



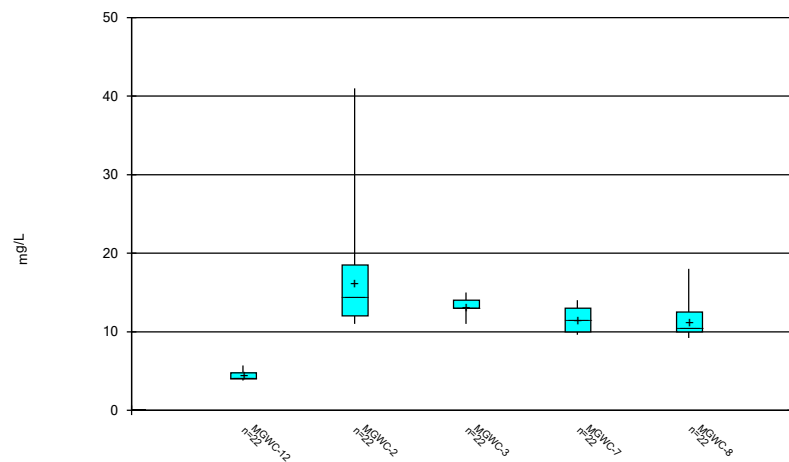
Constituent: Calcium Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



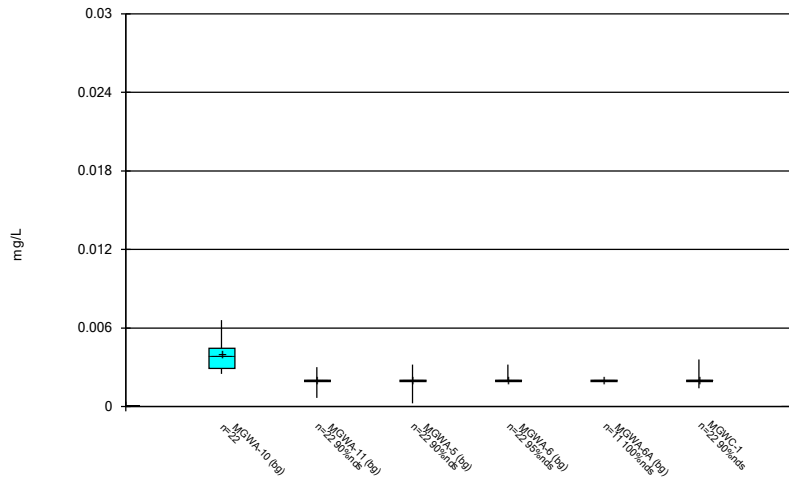
Constituent: Chloride Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



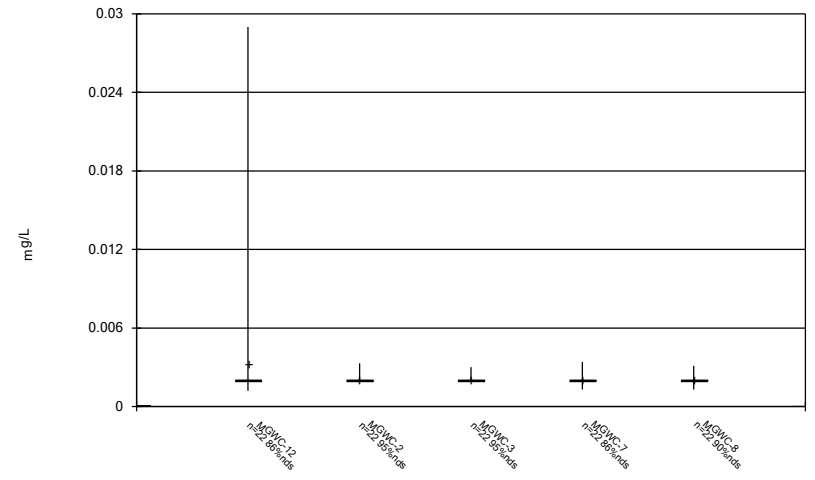
Constituent: Chloride Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



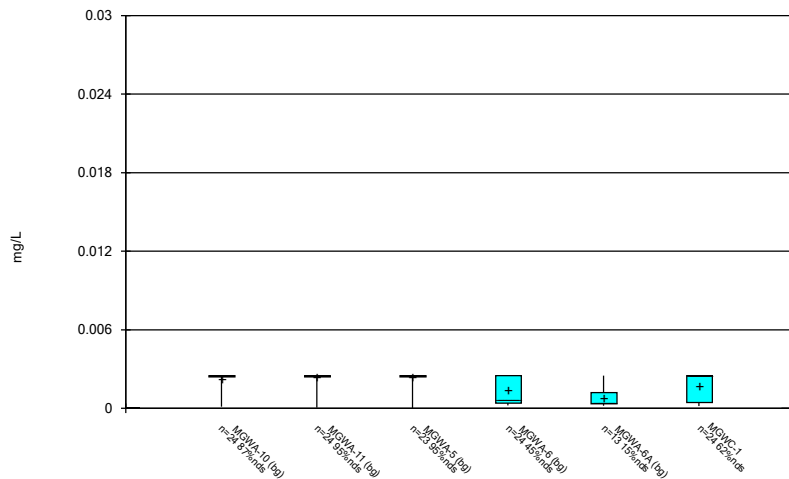
Constituent: Chromium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



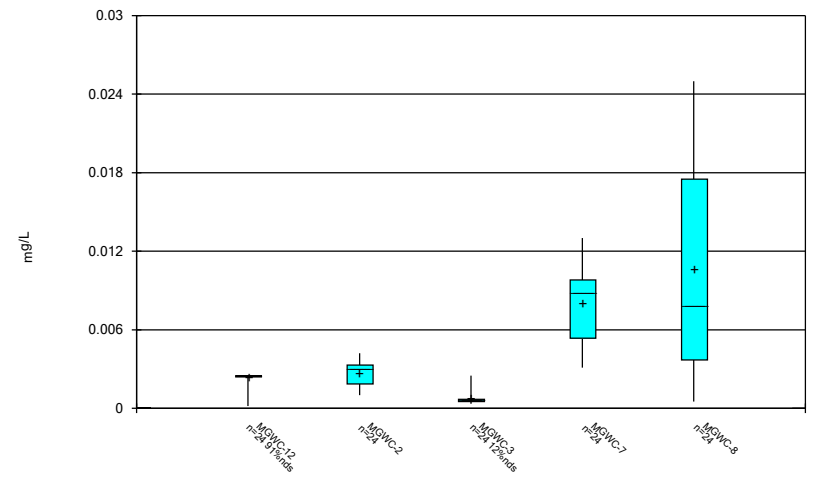
Constituent: Chromium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



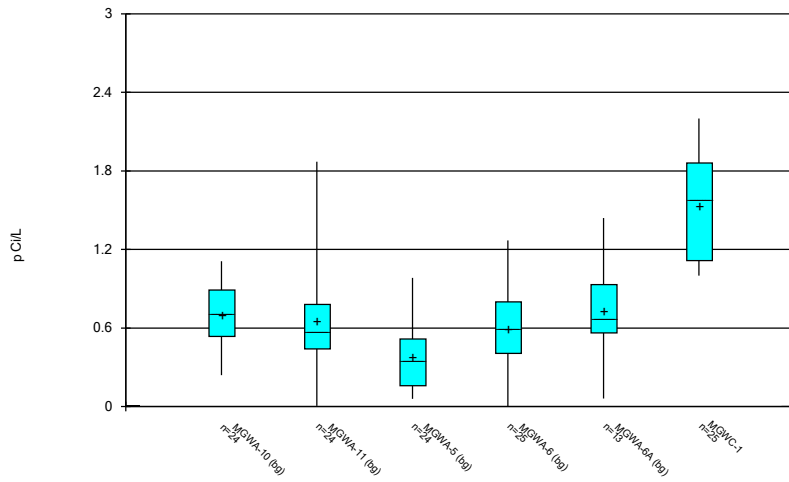
Constituent: Cobalt Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



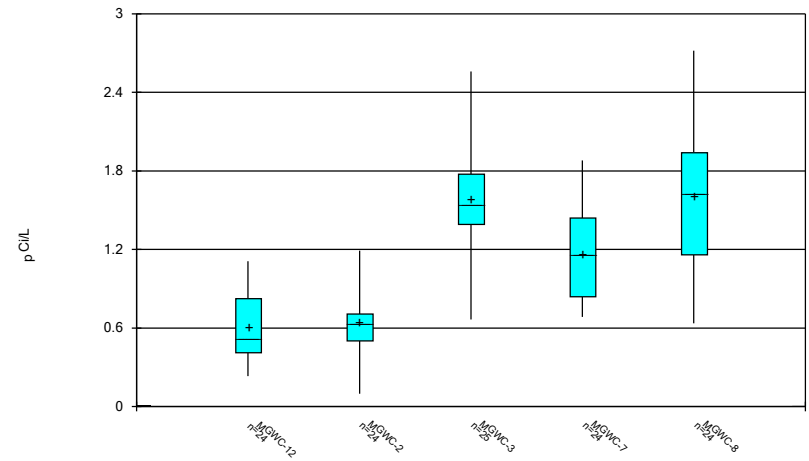
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



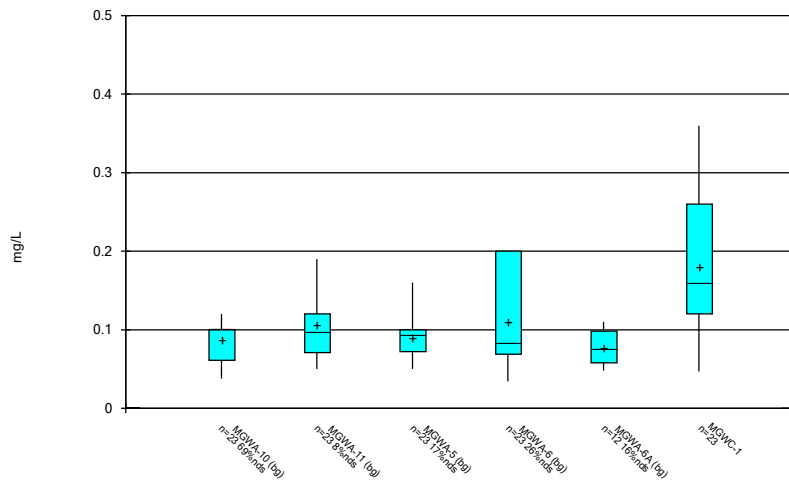
Constituent: Combined Radium 226 + 228 Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



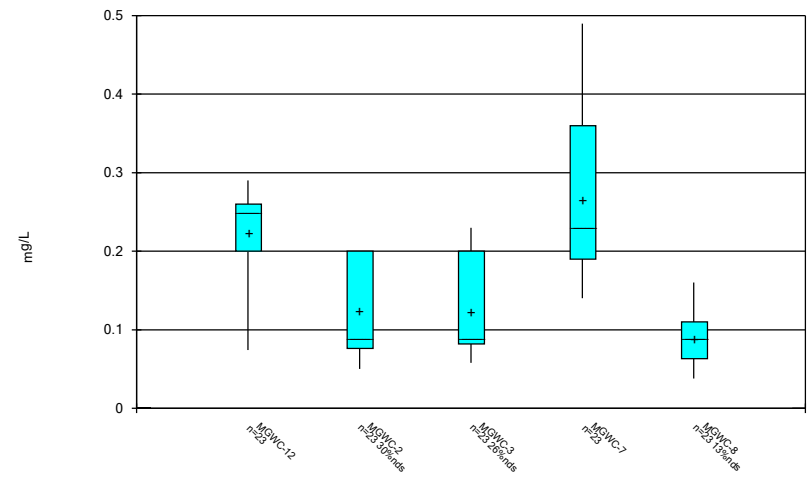
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 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



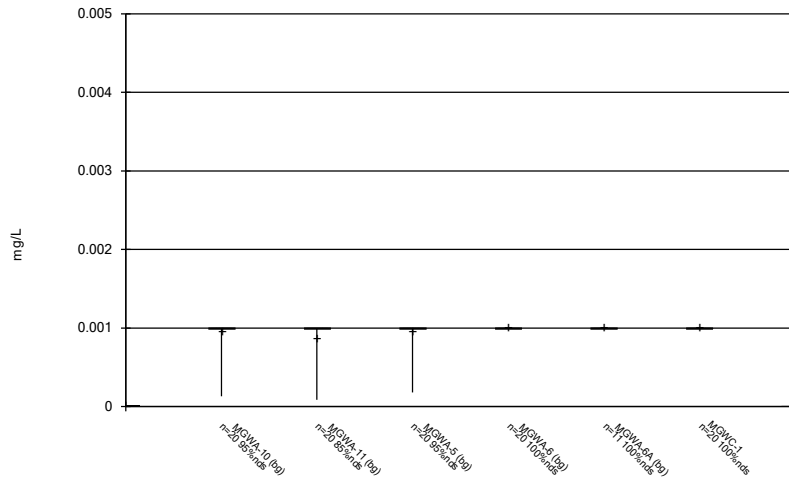
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 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



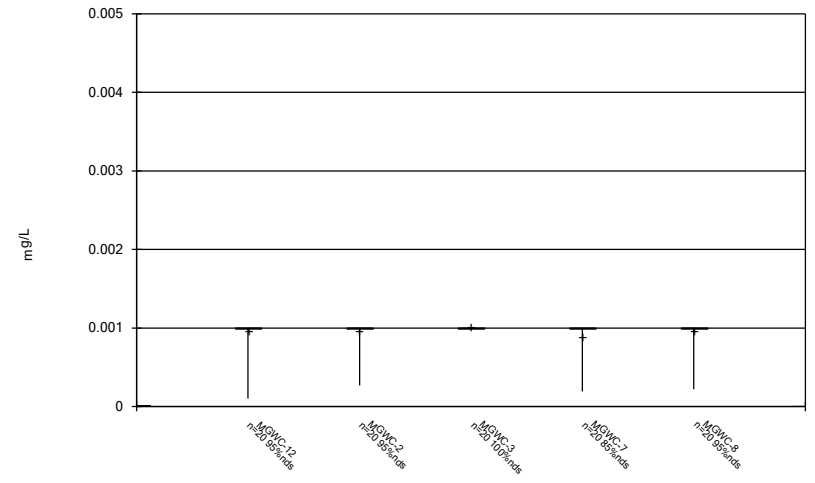
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 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



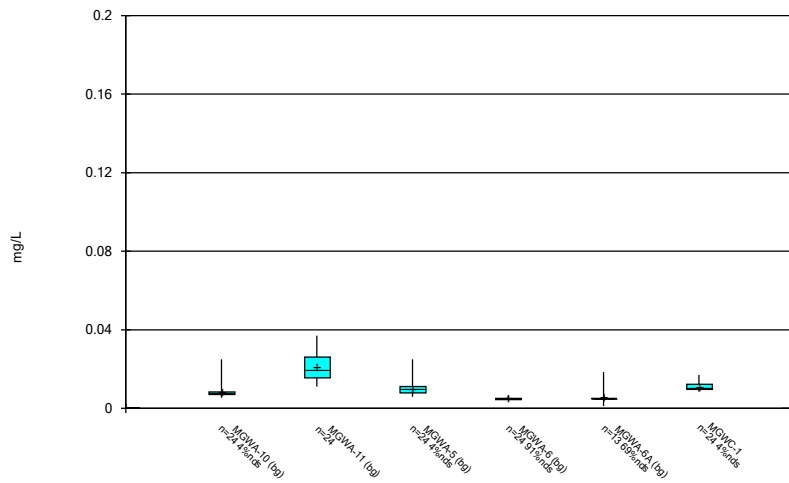
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



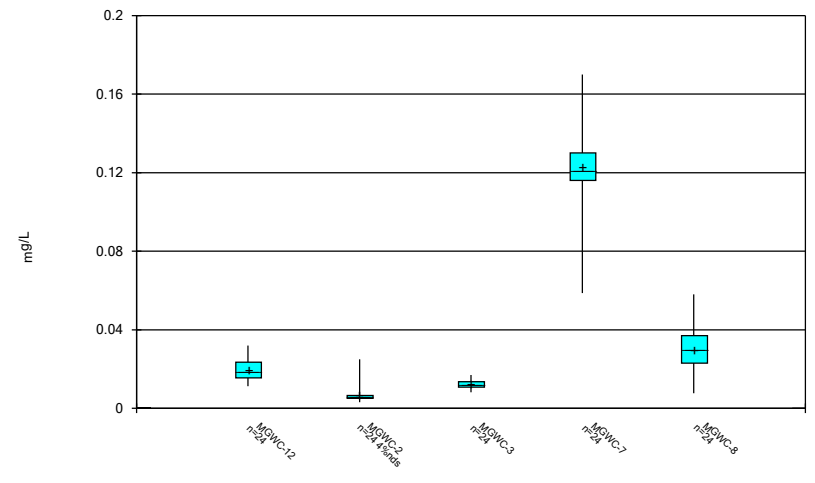
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



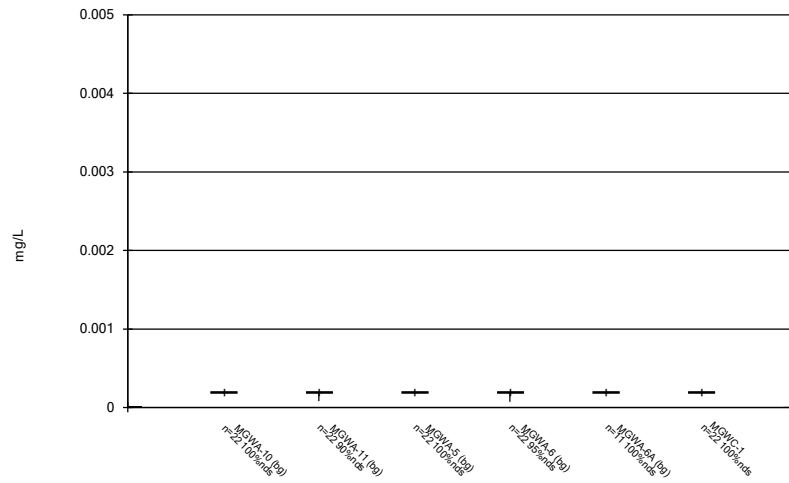
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



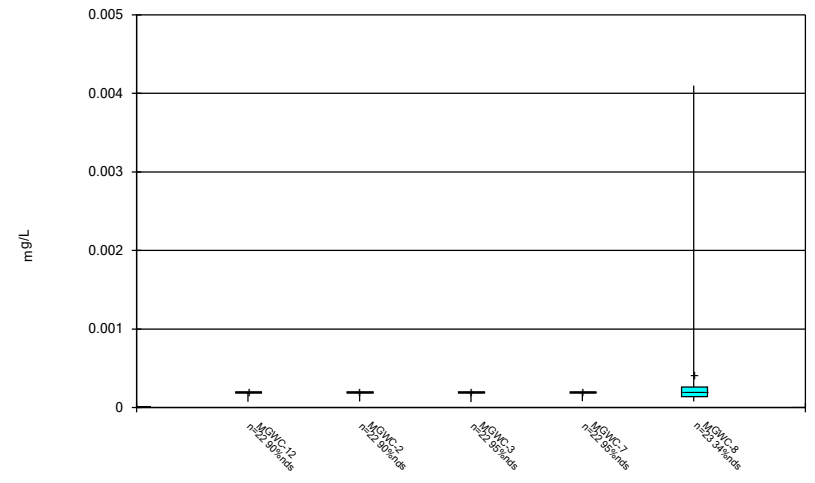
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



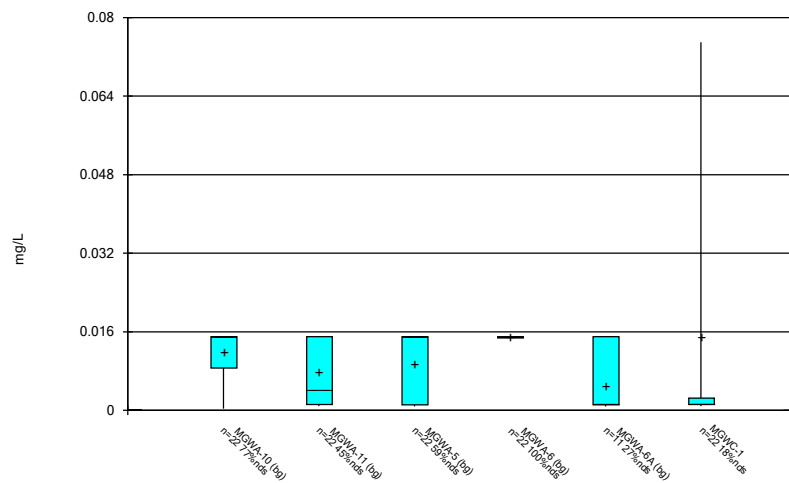
Constituent: Mercury Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



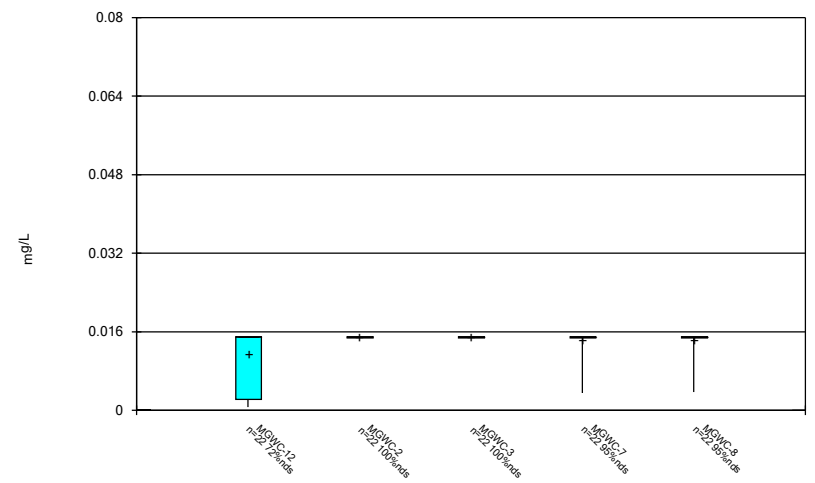
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 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



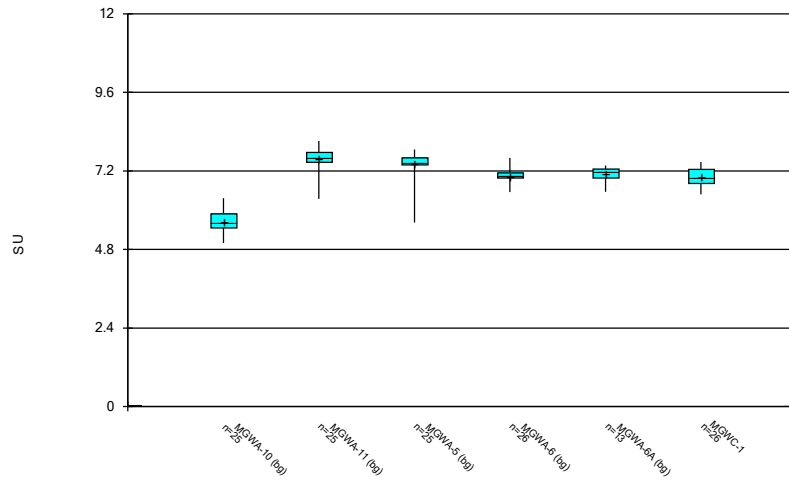
Constituent: Molybdenum Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



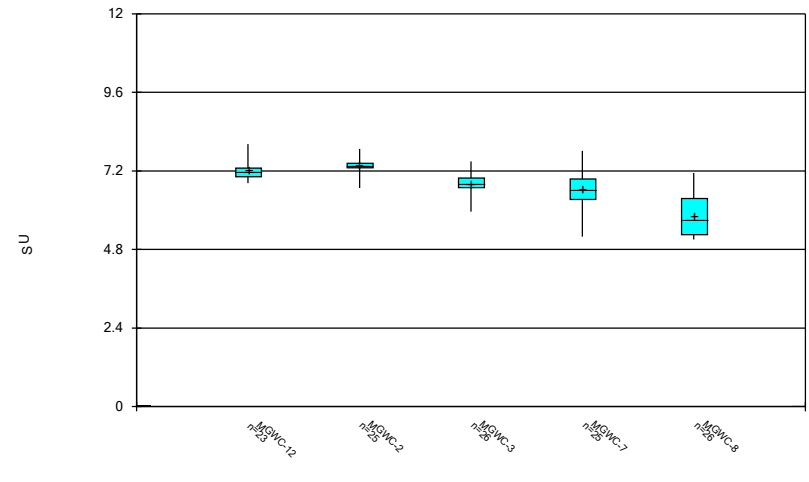
Constituent: Molybdenum Analysis Run 3/15/2024 3:16 PM View: Desc.
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



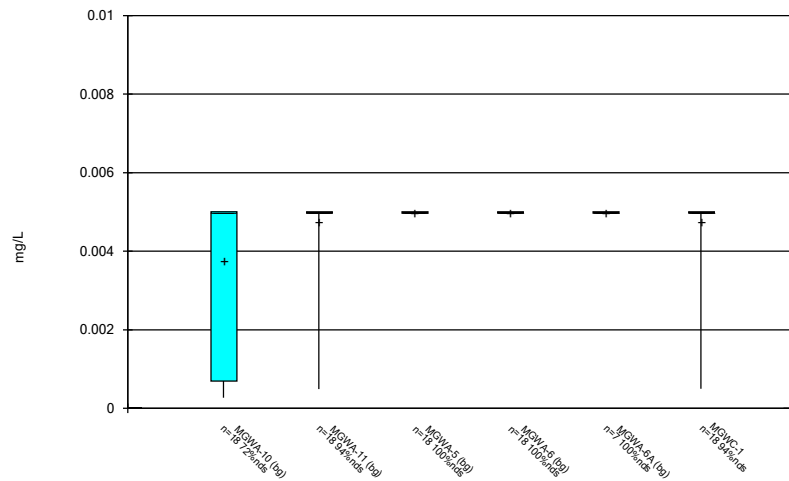
Constituent: pH Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



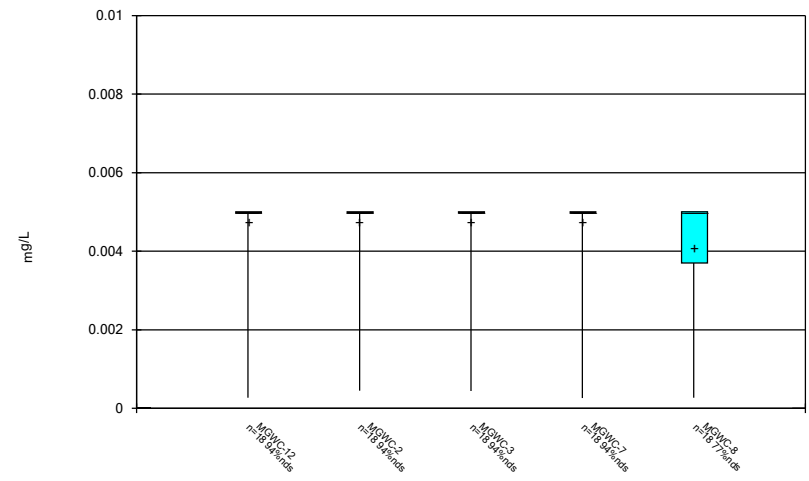
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



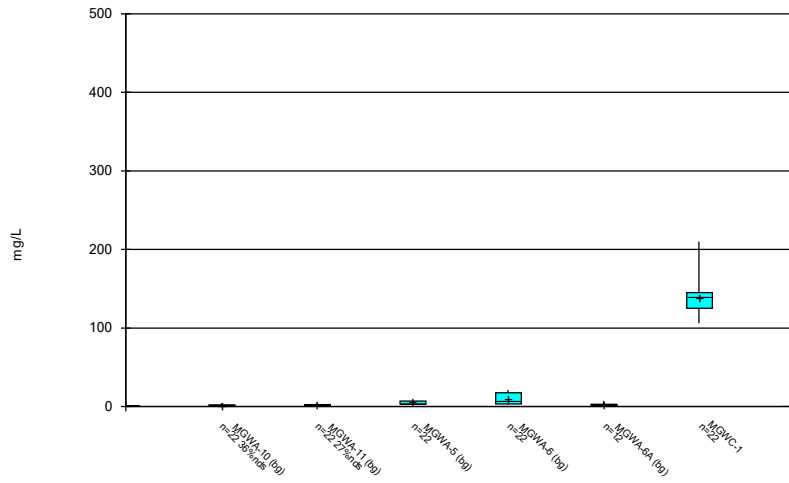
Constituent: Selenium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



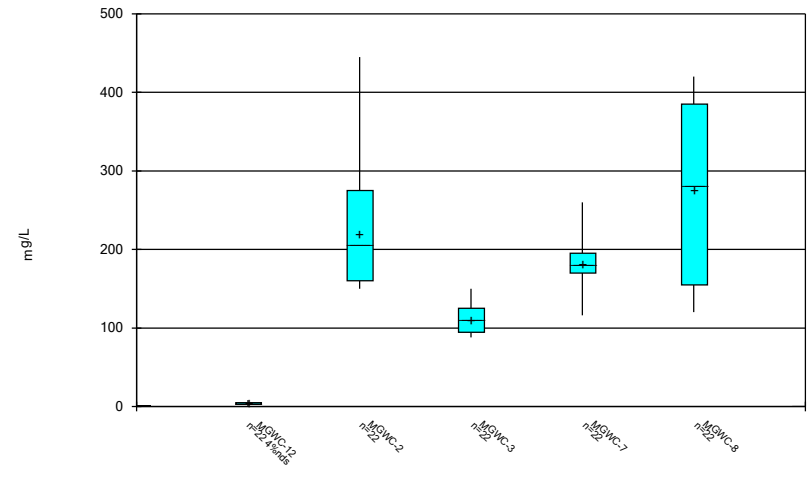
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



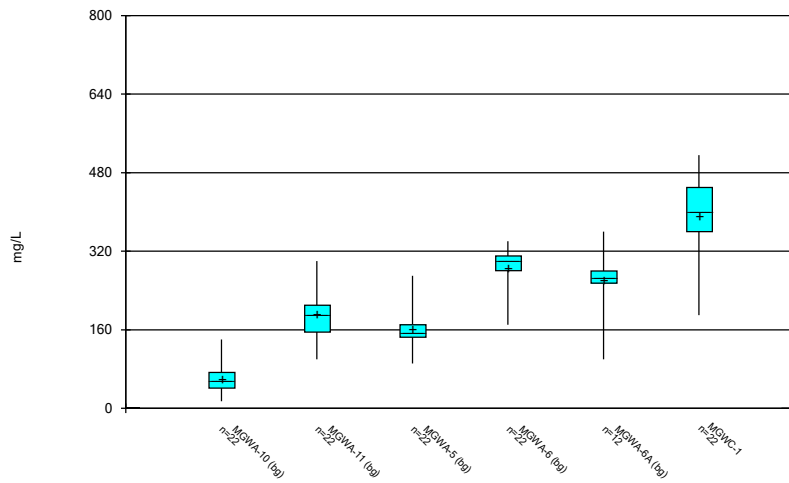
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



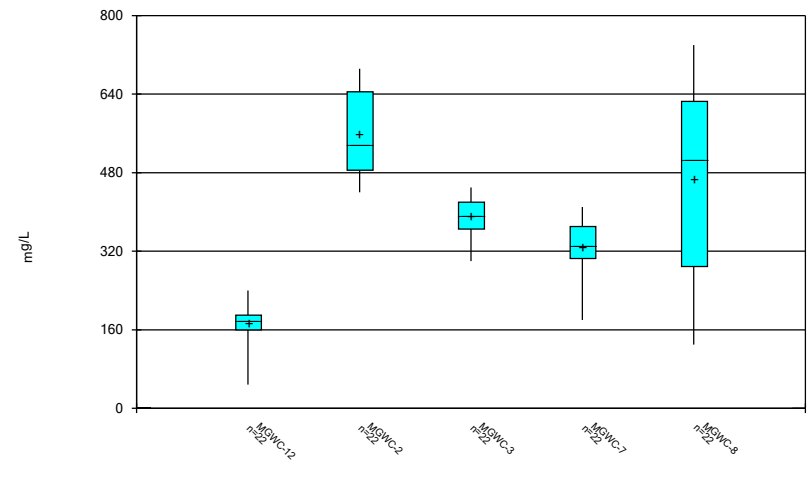
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



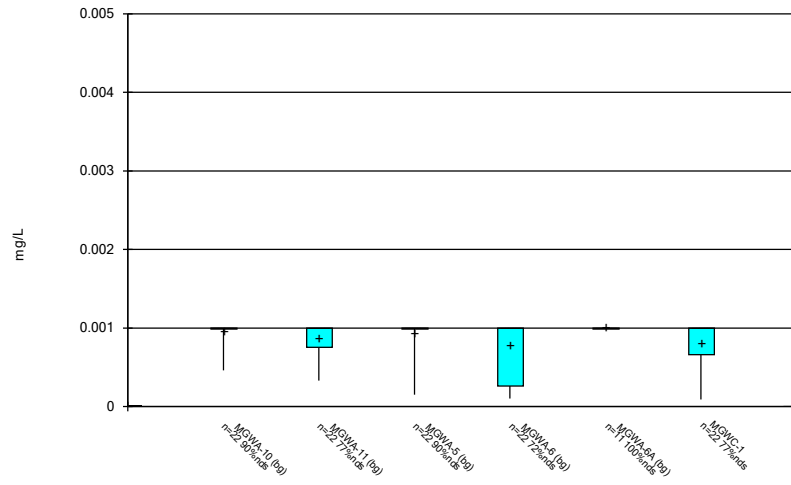
Constituent: TDS Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



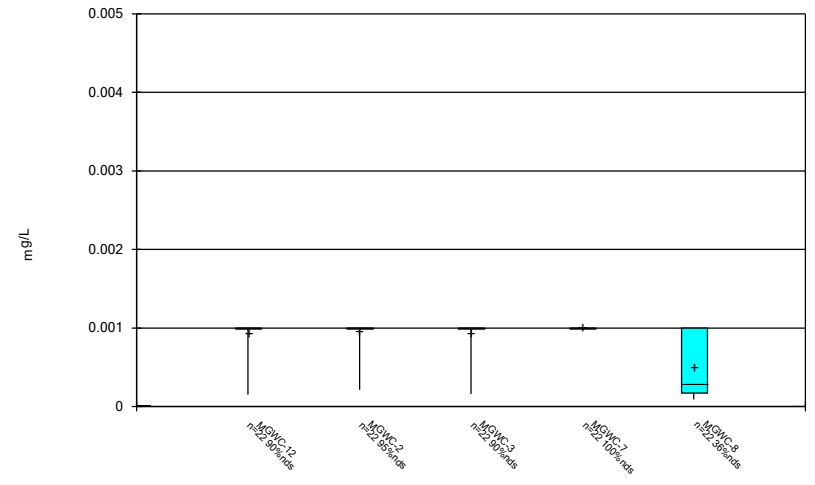
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/15/2024 3:16 PM View: Desc.
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/15/2024, 3:18 PM

MGWA-5 Cobalt (mg/L)
MGWC-12 pH (SU)

9/10/2019	10.96 (o)
9/16/2020	11.03 (o)
8/2/2022	0.012 (o)

FIGURE D.

Appendix III - Interwell Prediction Limit - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/6/2024	1.6	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/7/2024	1.9	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/7/2024	0.59	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/6/2024	2.4	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/7/2024	5.1	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/7/2024	120	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	9.7	n/a	2/6/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-2	9.7	n/a	2/7/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-3	9.7	n/a	2/7/2024	11	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-7	9.7	n/a	2/6/2024	10	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-8	9.7	n/a	2/7/2024	13	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/7/2024	0.29	Yes	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.53	n/a	2/6/2024	140	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.53	n/a	2/7/2024	150	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.53	n/a	2/7/2024	94	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.53	n/a	2/6/2024	200	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.53	n/a	2/7/2024	310	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/6/2024	420	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/7/2024	450	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	2/7/2024	370	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/7/2024	590	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2

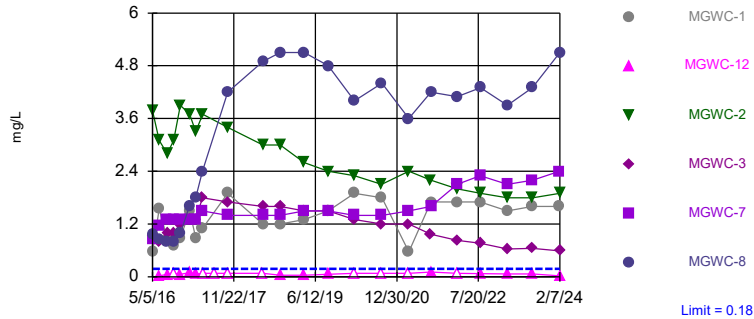
Appendix III - Interwell Prediction Limit - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/6/2024	1.6	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-12	0.18	n/a	2/7/2024	0.023J	No	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/7/2024	1.9	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/7/2024	0.59	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/6/2024	2.4	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/7/2024	5.1	Yes	100	n/a	n/a	55	n/a	n/a	0.0001931	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	2/6/2024	110	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-12	110	n/a	2/7/2024	29	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-2	110	n/a	2/7/2024	110	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	2/7/2024	100	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	2/6/2024	56	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/7/2024	120	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	9.7	n/a	2/6/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-12	9.7	n/a	2/7/2024	4.9	No	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-2	9.7	n/a	2/7/2024	12	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-3	9.7	n/a	2/7/2024	11	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-7	9.7	n/a	2/6/2024	10	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Chloride (mg/L)	MGWC-8	9.7	n/a	2/7/2024	13	Yes	100	1.647	0.3387	0	None	ln(x)	0.001254	Param Inter 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	2/6/2024	0.12	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/7/2024	0.29	Yes	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	2/7/2024	0.081J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	2/7/2024	0.089J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	2/6/2024	0.17	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	2/7/2024	0.063J	No	104	n/a	n/a	28.85	n/a	n/a	0.0001815	NP Inter (normality) 1 of 2
pH (SU)	MGWC-1	8.12	5	2/6/2024	7.47	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-12	8.12	5	2/7/2024	6.83	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-2	8.12	5	2/7/2024	7.71	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-3	8.12	5	2/7/2024	7.49	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-7	8.12	5	2/6/2024	7.81	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
pH (SU)	MGWC-8	8.12	5	2/7/2024	7	No	114	n/a	n/a	0	n/a	n/a	0.0003049	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.53	n/a	2/6/2024	140	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-12	16.53	n/a	2/7/2024	8.2	No	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.53	n/a	2/7/2024	150	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.53	n/a	2/7/2024	94	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.53	n/a	2/6/2024	200	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.53	n/a	2/7/2024	310	Yes	100	0.8768	1.045	14	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/6/2024	420	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-12	360	n/a	2/7/2024	200	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/7/2024	450	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	2/7/2024	370	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	2/6/2024	350	No	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/7/2024	590	Yes	100	n/a	n/a	0	n/a	n/a	0.0001931	NP Inter (normality) 1 of 2

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Non-parametric

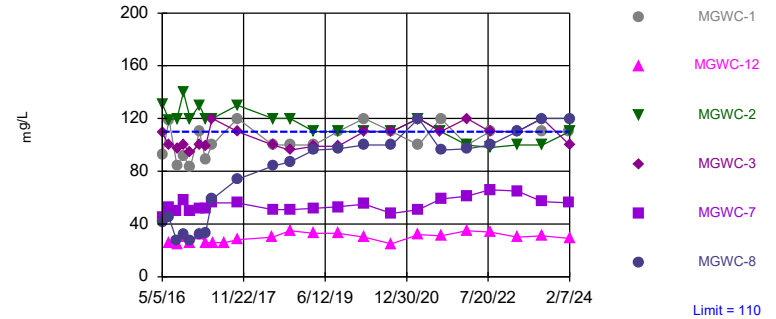


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 100 background values. 55% NDs. Annual per-constituent alpha = 0.002315. Individual comparison alpha = 0.0001931 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 3/15/2024 2:29 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-8

Prediction Limit
Interwell Non-parametric

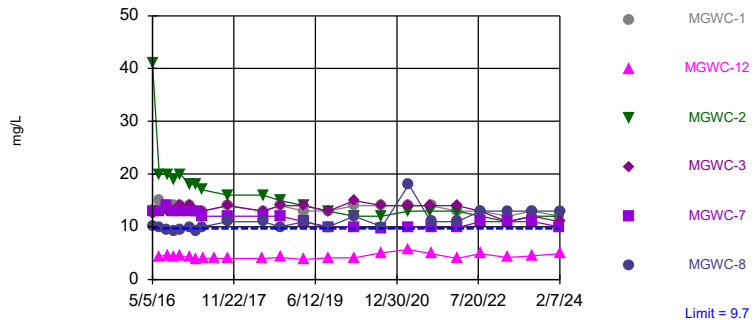


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002315. Individual comparison alpha = 0.0001931 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 3/15/2024 2:29 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Parametric

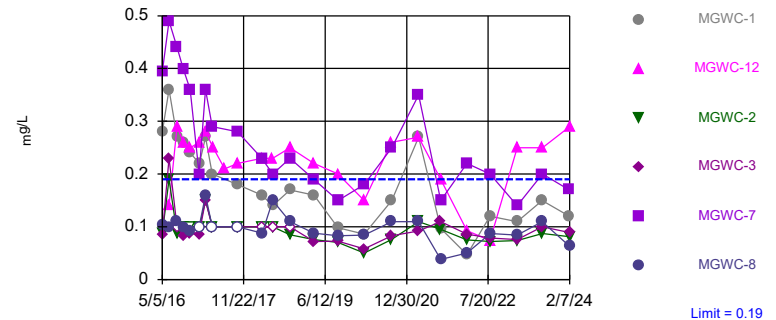


Background Data Summary (based on natural log transformation): Mean=1.647, Std. Dev.=0.3387, n=100. Normality test: Chi Squared @alpha = 0.01, calculated = 12.6, critical = 14.07. Kappa = 1.845 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Chloride Analysis Run 3/15/2024 2:29 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-12

Prediction Limit
Interwell Non-parametric

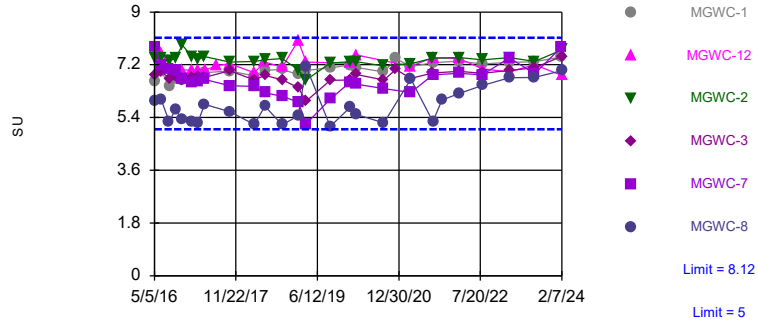


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 104 background values. 28.85% NDs. Annual per-constituent alpha = 0.002176. Individual comparison alpha = 0.0001815 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 3/15/2024 2:29 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric

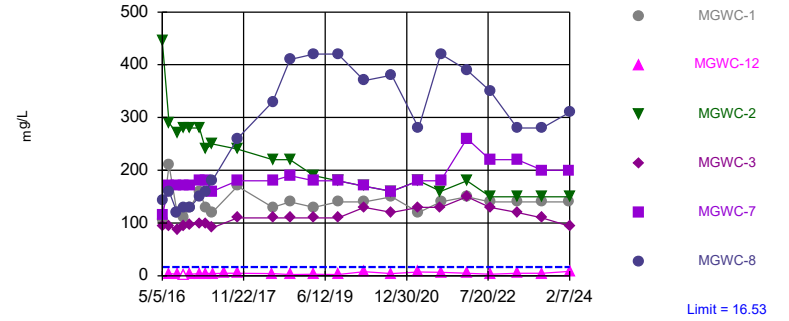


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 114 background values. Annual per-constituent alpha = 0.003656. Individual comparison alpha = 0.0003049 (1 of 2). Comparing 6 points to limit.

Constituent: pH Analysis Run 3/15/2024 2:29 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Parametric

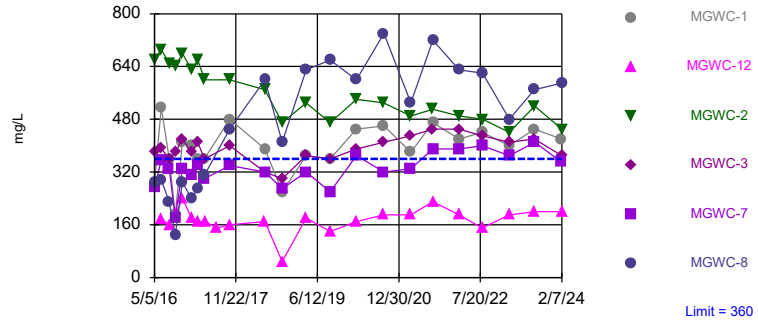


Background Data Summary (based on natural log transformation): Mean=0.8768, Std. Dev.=1.045, n=100, 14% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 8.8, critical = 14.07. Kappa = 1.845 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 3/15/2024 2:29 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002315. Individual comparison alpha = 0.0001931 (1 of 2). Comparing 6 points to limit.

Constituent: TDS Analysis Run 3/15/2024 2:29 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	<0.08	0.855	0.157	0.976	<0.08				
5/6/2016						3.78	0.567	0.926	
6/20/2016	0.011 (J)				0.013 (J)				0.017 (J)
6/21/2016		1.15	0.124	0.862		3.1	1.55	0.792	
8/15/2016	0.022 (J)	1.3	0.18	0.8	0.023 (J)				0.032 (J)
8/16/2016						2.8	0.85	1	
9/28/2016	0.023 (J)	1.3	0.17	0.8	<0.08		0.7		0.021 (J)
9/29/2016						3.1		1	
11/16/2016	<0.08	1.3	0.17	0.98	<0.08	3.9	0.88	1.2	<0.08
1/16/2017	0.021 (J)								
1/17/2017		1.3	0.17	1.6	<0.08			1.3	<0.08
1/18/2017						3.7			
1/19/2017							1.5		
3/2/2017	<0.08	1.3	0.14	1.8	<0.08	3.3	0.89	1.3	<0.08
4/18/2017	<0.08	1.5	0.14	2.4	<0.08		1.1	1.8	<0.08
4/19/2017						3.7			
4/25/2017									
7/13/2017									<0.08
10/10/2017	0.021 (J)	1.4	0.12	4.2	<0.08	3.4	1.9	1.7	0.025 (J)
6/12/2018	<0.08				<0.08				<0.08
6/13/2018		1.4	0.11	4.9		3	1.2	1.6	
10/9/2018	<0.08				<0.08				<0.08
10/10/2018		1.4	0.096 (J)	5.1		3	1.2	1.6	
1/29/2019									
3/25/2019	<0.08				<0.08				<0.08
3/26/2019		1.5	0.079 (J)	5.1		2.6	1.3	1.5	
9/10/2019	<0.08	1.5	0.097	4.8	<0.08	2.4	1.5	1.5	<0.08
3/9/2020	0.045 (J)								<0.08
3/10/2020		1.4	0.051 (J)	4	<0.08	2.3	1.9	1.3	
9/16/2020	<0.08		0.041 (J)		<0.08	2.1			0.045 (J)
9/17/2020		1.4		4.4			1.8	1.2	
3/23/2021	<0.08		<0.08						0.047 (J)
3/24/2021		1.5		3.6	<0.08	2.4	0.57	1.2	
8/23/2021	<0.08								0.043 (J)
8/24/2021			<0.08		<0.08	2.2		0.97	
8/25/2021		1.6		4.2			1.7		
2/22/2022	<0.08		<0.08		<0.08		1.7		<0.08
2/23/2022		2.1		4.1		2		0.83	
8/2/2022	<0.08		<0.08		<0.08				<0.08
8/3/2022		2.3					1.7	0.76	
8/4/2022				4.3		1.9			
2/7/2023	<0.08		0.028 (J)		0.022 (J)			0.63	0.028 (J)
2/8/2023		2.1		3.9		1.8	1.5		
8/1/2023	0.035 (J)		0.057 (J)	4.3	0.037 (J)		1.6	0.65	0.045 (J)
8/2/2023		2.2				1.8			
2/6/2024	<0.08	2.4	0.026 (J)		0.044 (J)		1.6		0.047 (J)
2/7/2024				5.1		1.9		0.59	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.0201 (J)	
8/15/2016		
8/16/2016	0.055	
9/28/2016		
9/29/2016	<0.08	
11/16/2016	0.055	
1/16/2017		
1/17/2017		
1/18/2017	0.097	
1/19/2017		
3/2/2017	0.064	
4/18/2017		
4/19/2017		
4/25/2017	<0.08	
7/13/2017	<0.08	
10/10/2017	<0.08	
6/12/2018	<0.08	
6/13/2018		
10/9/2018		
10/10/2018	0.034 (J)	
1/29/2019		<0.08
3/25/2019		<0.08
3/26/2019	0.032 (J)	
9/10/2019	0.06 (J)	0.04 (J)
3/9/2020		
3/10/2020	<0.08	<0.08
9/16/2020	<0.08	0.04 (J)
9/17/2020		
3/23/2021		<0.08
3/24/2021	<0.08	
8/23/2021		
8/24/2021		<0.08
8/25/2021	0.11	
2/22/2022	<0.08	<0.08
2/23/2022		
8/2/2022	0.071 (J)	<0.08
8/3/2022		
8/4/2022		
2/7/2023	0.067 (J)	0.039 (J)
2/8/2023		
8/1/2023		0.038 (J)
8/2/2023	0.062 (J)	
2/6/2024		0.084
2/7/2024	0.023 (J)	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	8.83	45	105	41.2	27				
5/6/2016						131	92.5	109	
6/20/2016	8.1				29.4				35.5
6/21/2016		52.8	91.2	44.7		119	119	99.7	
8/15/2016	6.1	50	94	27	26				34
8/16/2016						120	84	97	
9/28/2016	7.2	58	110	32	31		92		38
9/29/2016						140		100	
11/16/2016	5.2	50	98	27	26	120	83	94	33
1/16/2017	3.8								
1/17/2017		52	100	32	29			100	34
1/18/2017						130			
1/19/2017							110		
3/2/2017	5.4	52	100	33	28	120	89	99	35
4/18/2017	5	56	110	59	27		100	120	33
4/19/2017						120			
4/25/2017									
7/13/2017									30
10/10/2017	4.8	56	110	74	31	130	120	110	39
6/12/2018	4.8				25				26
6/13/2018		51	100	84		120	100	100	
10/9/2018	4.5				29				29
10/10/2018		51	100	87		120	100	96	
1/29/2019									
3/25/2019	4.6				27				37
3/26/2019		52	100	96		110	100	99	
9/10/2019	4.9	53	110	97	27	110	110	99	36
3/9/2020	4								32
3/10/2020		55	100	100	29	110	120	110	
9/16/2020	6.8		100		28	110			30
9/17/2020		48		100			110	110	
3/23/2021	4		110						42
3/24/2021		51		120	28	120	100	120	
8/23/2021	5.8								34
8/24/2021			100		27	110		110	
8/25/2021		59		96			120		
2/22/2022	3.3		97		25		100		36
2/23/2022		61		97		100		120	
8/2/2022	3.1		110		26				36
8/3/2022		66					110	110	
8/4/2022				100		98			
2/7/2023	3.6		110		26			110	34
2/8/2023		65		110		100	110		
8/1/2023	3.9		110	120	28		110	120	39
8/2/2023		57				100			
2/6/2024	3.9	56	100		26		110		40
2/7/2024				120		110		100	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	25.5	
8/15/2016		
8/16/2016	25	
9/28/2016		
9/29/2016	30	
11/16/2016	26	
1/16/2017		
1/17/2017		
1/18/2017	32	
1/19/2017		
3/2/2017	26	
4/18/2017		
4/19/2017		
4/25/2017	26	
7/13/2017	26	
10/10/2017	28	
6/12/2018	30	
6/13/2018		
10/9/2018		
10/10/2018	35	
1/29/2019		95.1
3/25/2019		89
3/26/2019	33	
9/10/2019	33	86
3/9/2020		
3/10/2020	30	90
9/16/2020	25	93
9/17/2020		
3/23/2021		97
3/24/2021	32	
8/23/2021		
8/24/2021		83
8/25/2021	31	
2/22/2022	35	90
2/23/2022		
8/2/2022	34	94
8/3/2022		
8/4/2022		
2/7/2023	30	99
2/8/2023		
8/1/2023		110
8/2/2023	31	
2/6/2024		100
2/7/2024	29	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	7.35	13	9.67	10.1	6.51				
5/6/2016						41	13.2	12.5	
6/20/2016	7				5.9				4.3
6/21/2016		13	9.2	10		20	15	13	
8/15/2016	7.5	14	10	9.5	6.4				4.1
8/16/2016						20	14	13	
9/28/2016	7	13	10	9.2	6.1		14		3.9
9/29/2016						19		13	
11/16/2016	7.5	13	10	9.5	6.1	20	14	14	4.1
1/16/2017	7.7								
1/17/2017		13	9.4	10	5.7			14	3.9
1/18/2017						18			
1/19/2017							14		
3/2/2017	6.9	13	8.6	9.3	5.3	18	13	13	3.5
4/18/2017	6.8	12	8.9	10	5.3		13	13	3.7
4/19/2017						17			
4/25/2017									
7/13/2017									4.2
10/10/2017	6.9	12	8.3	11	5.3	16	14	14	3.4
6/12/2018	6.7				5.1				4.6
6/13/2018		12	7	11		16	13	13	
10/9/2018	7.1				5.6				4.5
10/10/2018		12	6.9	10		15	14	14	
1/29/2019									
3/25/2019	6.8				4.7				3.4
3/26/2019		11	5.8	11		14	13	14	
9/10/2019	7	9.9	6	10	5.1	13	13	13	3.5
3/9/2020	7.4								4.5
3/10/2020		10	5.1	12	5.4	12	14	15	
9/16/2020	7		4.3		5.2	12			4.6
9/17/2020		9.6		10			14	14	
3/23/2021	7.8		4						3.8
3/24/2021		10		18	5.5	13	14	14	
8/23/2021	7.3								4.4
8/24/2021			4		5.5	13		14	
8/25/2021		9.9		11			14		
2/22/2022	7.1		4		5.1		13		3.1
2/23/2022		9.8		11		13		14	
8/2/2022	7.4		2.6		3.5				3.4
8/3/2022		11					13	13	
8/4/2022				13		12			
2/7/2023	7		3.1		4.7			11	4.2
2/8/2023		11		13		11	12		
8/1/2023	7.4		3.3	13	5.2		13	12	3.3
8/2/2023		11				12			
2/6/2024	7.2	10	3.1		4.9		12		3.3
2/7/2024				13		12		11	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4.4	
8/15/2016		
8/16/2016	4.6	
9/28/2016		
9/29/2016	4.4	
11/16/2016	4.5	
1/16/2017		
1/17/2017		
1/18/2017	4.2	
1/19/2017		
3/2/2017	3.9	
4/18/2017		
4/19/2017		
4/25/2017	4	
7/13/2017	4	
10/10/2017	4	
6/12/2018	4	
6/13/2018		
10/9/2018		
10/10/2018	4.2	
1/29/2019		4.51
3/25/2019		4.4
3/26/2019	3.8	
9/10/2019	4.1	4.2
3/9/2020		
3/10/2020	4.1	4
9/16/2020	5.1	3.7
9/17/2020		
3/23/2021		4.1
3/24/2021	5.7	
8/23/2021		
8/24/2021		3.9
8/25/2021	4.9	
2/22/2022	4	3.3
2/23/2022		
8/2/2022	4.9	2.8
8/3/2022		
8/4/2022		
2/7/2023	4.2	3.2
2/8/2023		
8/1/2023		3.4
8/2/2023	4.5	
2/6/2024		3.2
2/7/2024	4.9	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	0.046 (J)	0.394	0.091 (J)	0.103 (J)	0.132 (J)				
5/6/2016						0.088 (J)	0.28 (J)	0.086 (J)	
6/20/2016	<0.1				0.05 (J)				0.06 (J)
6/21/2016		0.49	0.08 (J)	0.1 (J)		0.19 (J)	0.36	0.23 (J)	
8/15/2016	<0.1	0.44	<0.1	0.11 (J)	0.1 (J)				0.1 (J)
8/16/2016						0.087 (J)	0.27	<0.1	
9/28/2016	<0.1	0.4	0.084 (J)	0.1 (J)	0.11 (J)		0.26		0.097 (J)
9/29/2016						<0.1		0.082 (J)	
11/16/2016	<0.1	0.36	0.084 (J)	0.091 (J)	0.093 (J)	<0.1	0.24	0.087 (J)	0.12 (J)
1/16/2017	<0.1								
1/17/2017		0.2	0.099 (J)	<0.1	0.095 (J)			0.086 (J)	0.11 (J)
1/18/2017						<0.1			
1/19/2017							0.22		
3/2/2017	0.12 (J)	0.36	0.15 (J)	0.16 (J)	0.16 (J)	0.15 (J)	0.27	0.15 (J)	0.18 (J)
4/18/2017	<0.1	0.29	<0.1	<0.1	<0.1		0.2	<0.1	0.11 (J)
4/19/2017						<0.1			
4/25/2017									
7/13/2017									0.12 (J)
10/10/2017	<0.1	0.28	<0.1	<0.1	<0.1	<0.1	0.18 (J)	<0.1	0.086 (J)
3/29/2018	<0.1	0.23	<0.1		0.084 (J)		0.16 (J)		<0.1
3/30/2018				0.088 (J)		<0.1		<0.1	
6/12/2018	<0.1				<0.1				0.16 (J)
6/13/2018		0.2	<0.1	0.15 (J)		<0.1	0.14 (J)	<0.1	
10/9/2018	<0.1				0.086 (J)				0.16 (J)
10/10/2018		0.23	<0.1	0.11 (J)		0.085 (J)	0.17 (J)	<0.1	
1/29/2019									
3/25/2019	<0.1				0.072 (J)				0.087 (J)
3/26/2019		0.19 (J)	0.065 (J)	0.088 (J)		0.076 (J)	0.16	0.072 (J)	
9/10/2019	0.044 (J)	0.15	0.076 (J)	0.083 (J)	0.068 (J)	0.07 (J)	0.098 (J)	0.073 (J)	0.075 (J)
3/9/2020	0.061 (J)								0.19
3/10/2020		0.18	0.045 (J)	0.084 (J)	0.055 (J)	0.05 (J)	0.086 (J)	0.058 (J)	
9/16/2020	0.042 (J)		0.076 (J)		0.08 (J)	0.076 (J)			0.18
9/17/2020		0.25		0.11			0.15	0.083 (J)	
3/23/2021	0.038 (J)		0.082 (J)						0.081 (J)
3/24/2021		0.35		0.11	0.091 (J)	0.11	0.27	0.092 (J)	
8/23/2021	0.048 (J)								0.12
8/24/2021			0.1		0.1	0.095 (J)		0.11	
8/25/2021		0.15		0.038 (J)			0.097 (J)		
2/22/2022	<0.1		0.034 (J)		<0.1		0.047 (J)		<0.1
2/23/2022		0.22		0.05 (J)		0.075 (J)		0.086 (J)	
8/2/2022	<0.1		0.055 (J)		0.066 (J)				0.065 (J)
8/3/2022		0.2					0.12	0.079 (J)	
8/4/2022				0.087 (J)		0.072 (J)			
2/7/2023	<0.1		0.06 (J)		0.069 (J)			0.076 (J)	0.07 (J)
2/8/2023		0.14		0.084 (J)		0.074 (J)	0.11		
8/1/2023	<0.1		0.084 (J)	0.11	0.094 (J)		0.15	0.1	0.094 (J)
8/2/2023		0.2				0.087 (J)			
2/6/2024	<0.1	0.17	0.069 (J)		0.079 (J)		0.12		0.071 (J)
2/7/2024				0.063 (J)		0.081 (J)		0.089 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.14 (J)	
8/15/2016		
8/16/2016	0.29	
9/28/2016		
9/29/2016	0.26	
11/16/2016	0.25	
1/16/2017		
1/17/2017		
1/18/2017	0.26	
1/19/2017		
3/2/2017	0.28	
4/18/2017		
4/19/2017		
4/25/2017	0.25	
7/13/2017	0.21	
10/10/2017	0.22	
3/29/2018	0.23	
3/30/2018		
6/12/2018	0.23	
6/13/2018		
10/9/2018		
10/10/2018	0.25	
1/29/2019		<0.1
3/25/2019		0.067 (J)
3/26/2019	0.22	
9/10/2019	0.2	0.052 (J)
3/9/2020		
3/10/2020	0.15	0.048 (J)
9/16/2020	0.26	0.078 (J)
9/17/2020		
3/23/2021		0.096 (J)
3/24/2021	0.27	
8/23/2021		
8/24/2021		0.11
8/25/2021	0.19	
2/22/2022	0.093 (J)	<0.1
2/23/2022		
8/2/2022	0.074 (J)	0.052 (J)
8/3/2022		
8/4/2022		
2/7/2023	0.25	0.064 (J)
2/8/2023		
8/1/2023		0.081 (J)
8/2/2023	0.25	
2/6/2024		0.074 (J)
2/7/2024	0.29	

Prediction Limit

Constituent: pH (SU) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	5.94	7.81	7.13	5.96	7.4				
5/6/2016						7.41	6.64	6.85	
6/20/2016	5.84 (D)				7.63				7.82
6/21/2016		7.2	7.25	6		7.41	6.99	6.98	
8/15/2016	5.65	7.04	7.04	5.26	7.54				7.52
8/16/2016						7.33	6.48	6.73	
9/28/2016	5.72	7	7.09	5.66	7.45		6.7		7.66
9/29/2016						7.42		6.81	
11/16/2016	5.65	6.73	7.6	5.33	7.39	7.87	6.66	6.69	7.51
1/16/2017	5.52								
1/17/2017		6.61	6.99	5.24	7.23			6.77	7.52
1/18/2017						7.49			
1/19/2017							6.81		
3/2/2017	5.53	6.62	6.95	5.21	7.55	7.37	6.75	6.79	7.5
4/18/2017	5.64	6.7	7.02	5.85	7.43		6.93	6.77	7.75
4/19/2017						7.48			
4/25/2017									
7/13/2017									7.72
10/10/2017		6.48	7.27	5.6	5.62	7.29	6.99	7	
10/11/2017	6.11								6.35
3/29/2018	5.35	6.46	6.95		7.19		6.82		7.42
3/30/2018				5.16		7.31		6.68	
6/12/2018	6.23				7.55				8.02
6/13/2018		6.24	7.08	5.79		7.37	7.01	6.83	
10/9/2018	5.62 (D)				7.8 (D)				7.79 (D)
10/10/2018		6.12 (D)	7.01 (D)	5.15 (D)		7.41 (D)	7.04 (D)	6.69 (D)	
1/28/2019	5.49 (D)								7.4 (D)
1/29/2019		5.93 (D)	6.55 (D)	5.46 (D)	7.63 (D)	7.03 (D)	6.87 (D)	6.42 (D)	
3/25/2019	5.27 (D)				7.44 (D)				7.29 (D)
3/26/2019		5.19 (D)	6.57 (D)	7.14 (D)		6.68 (D)	7.01 (D)	5.96 (D)	
9/10/2019	5.97	6.03	6.99	5.1	7.41	7.26	7.09	6.67	7.54
1/28/2020	5.78	6.61	7.17		7.46				7.4
1/29/2020				5.76		7.3	7.19	6.68	
3/9/2020	5.46								7.58
3/10/2020		6.54	7	5.5	7.3	7.3	7.11	6.87	
9/16/2020	6.37		6.98		7.38	7.16			7.89
9/17/2020		6.39		5.22			6.95	6.68	
12/7/2020			7.2						
12/8/2020							7.41	7.04	
3/23/2021	5		6.74						7.06
3/24/2021		6.26		6.71	6.88	7.24	7.14	6.73	
8/23/2021	6.16								8.12
8/24/2021			7.11		7.78	7.42		6.92	
8/25/2021		6.85		5.26			7.27		
10/26/2021				5.99					
2/22/2022	5.38		7.14		7.57		7.32		7.6
2/23/2022		6.91		6.22		7.44		6.98	
8/2/2022	5.41		7.1		7.45				7.57
8/3/2022		6.86					7.23	6.91	
8/4/2022				6.5		7.37			
2/7/2023	5.46		7.13		7.85			7.01	7.72
2/8/2023		7.43		6.76		7.44	7.28		

Prediction Limit

Constituent: pH (SU) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
8/1/2023	5.46		7.14	6.77	7.52		7.3	7.09	7.61
8/2/2023		6.9				7.31			
2/6/2024	5.52	7.81	7.07		7.67		7.47		7.86
2/7/2024				7		7.71		7.49	

Prediction Limit

Constituent: pH (SU) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	7.61	
8/15/2016		
8/16/2016	7.17	
9/28/2016		
9/29/2016	6.97	
11/16/2016	7.03	
1/16/2017		
1/17/2017		
1/18/2017	7.01	
1/19/2017		
3/2/2017	7.02	
4/18/2017		
4/19/2017		
4/25/2017	7.02	
7/13/2017	7.17	
10/10/2017	7.24	
10/11/2017		
3/29/2018	6.93	
3/30/2018		
6/12/2018	7.29	
6/13/2018		
10/9/2018		
10/10/2018	7.12 (D)	
1/28/2019		
1/29/2019	8.02 (D)	6.93 (D)
3/25/2019		7.1 (D)
3/26/2019	7.29 (D)	
9/10/2019	10.96 (o)	7.15
1/28/2020	7.25	7.36
1/29/2020		
3/9/2020		
3/10/2020	7.53	7.04
9/16/2020	11.03 (o)	6.89
9/17/2020		
12/7/2020		
12/8/2020		
3/23/2021		6.56
3/24/2021	7.15	
8/23/2021		
8/24/2021		7.28
8/25/2021	7.44	
10/26/2021		
2/22/2022	7.41	7.2
2/23/2022		
8/2/2022	7.06	7.27
8/3/2022		
8/4/2022		
2/7/2023	6.95	7.24
2/8/2023		

Prediction Limit

Constituent: pH (SU) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
8/1/2023		7.2
8/2/2023	7.2	
2/6/2024		7.23
2/7/2024	6.83	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	2.46	116	17.8	144	4.47				
5/6/2016						445	106	94.2	
6/20/2016	2.5				7.7				1
6/21/2016		170	17	160		290	210	95	
8/15/2016	1.9	170	20	120	7.5				0.73 (J)
8/16/2016						270	120	88	
9/28/2016	1.9	170	21	130	7.8		110		<1
9/29/2016						280		94	
11/16/2016	1.7	170	20	130	6.7	280	130	97	<1
1/16/2017	<1								
1/17/2017		180	19	150	6.7			100	<1
1/18/2017						280			
1/19/2017							160		
3/2/2017	1.4	180	15	160	5.6	240	130	100	<1
4/18/2017	1.3	160	14	180	5.1		120	91	<1
4/19/2017						250			
4/25/2017									
7/13/2017									1.4
10/10/2017	1.1	180	11	260	4.9	240	170	110	0.87 (J)
6/12/2018	0.82 (J)				3.8				4.1
6/13/2018		180	8.7	330		220	130	110	
10/9/2018	0.82 (J)				6.7				2.2
10/10/2018		190	8.7	410		220	140	110	
1/29/2019									
3/25/2019	<1				3.4 (J)				<1
3/26/2019		180	6.3 (J)	420		190	130	110	
9/10/2019	1.1	180	5.6	420	4.7	180	140	110	1.8
3/9/2020	4.2								3.4
3/10/2020		170	5	370	5.2	170	140	130	
9/16/2020	0.69 (J)		2.7		3.2	160			3
9/17/2020		160		380			150	120	
3/23/2021	<1		3.2						1.4
3/24/2021		180		280	3.5	180	120	130	
8/23/2021	<1								3.4
8/24/2021			3.5		3.6	160		130	
8/25/2021		180		420			140		
2/22/2022	<1		5.4		3.2		150		1.1
2/23/2022		260		390		180		150	
8/2/2022	<1		2.3		2.7				0.8 (J)
8/3/2022		220					140	130	
8/4/2022				350		150			
2/7/2023	<1		2.3		2.5			120	3.3
2/8/2023		220		280		150	140		
8/1/2023	0.56 (J)		3.2	280	2.9		140	110	1
8/2/2023		200				150			
2/6/2024	<1	200	2.8		2.4		140		0.82 (J)
2/7/2024				310		150		94	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4	
8/15/2016		
8/16/2016	2.8	
9/28/2016		
9/29/2016	<1	
11/16/2016	3	
1/16/2017		
1/17/2017		
1/18/2017	4.1	
1/19/2017		
3/2/2017	4.6	
4/18/2017		
4/19/2017		
4/25/2017	4.4	
7/13/2017	4.8	
10/10/2017	4.9	
6/12/2018	4.1	
6/13/2018		
10/9/2018		
10/10/2018	2.5	
1/29/2019		7.08
3/25/2019		1.8 (J)
3/26/2019	2.9 (J)	
9/10/2019	2.5	0.6 (J)
3/9/2020		
3/10/2020	7.8	2.4
9/16/2020	4.4	1
9/17/2020		
3/23/2021		1.7
3/24/2021	7.1	
8/23/2021		
8/24/2021		3.3
8/25/2021	6.6	
2/22/2022	4.8	2.1
2/23/2022		
8/2/2022	3.1	2.1
8/3/2022		
8/4/2022		
2/7/2023	4.7	1.6
2/8/2023		
8/1/2023		4
8/2/2023	4.6	
2/6/2024		2.4
2/7/2024	8.2	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	78	272	281	287	129				
5/6/2016						661	282	380	
6/20/2016	80				156				188
6/21/2016		356	303	297		692	516	392	
8/15/2016	58	330	310	230	160				180
8/16/2016						650	360	360	
9/28/2016	29	180	170	130	91		190		100
9/29/2016						640		380	
11/16/2016	140	330	340	290	250	680	410	420	270
1/16/2017	36								
1/17/2017		310	310	240	140			380	170
1/18/2017						630			
1/19/2017							400		
3/2/2017	78	340	330	270	170	660	360	410	210
4/18/2017	16	300	290	310	140		360	360	160
4/19/2017						600			
4/25/2017									
7/13/2017									150
10/10/2017	78	340	310	450	190	600	480	400	210
6/12/2018	62				180				150
6/13/2018		320	230	600		570	390	320	
10/9/2018	68				170				150
10/10/2018		270	300	410		470	260	300	
1/29/2019									
3/25/2019	54				150				210
3/26/2019		320	290	630		530	370	370	
9/10/2019	14	260	260	660	110	470	360	360	160
3/9/2020	56								190
3/10/2020		370	300	600	170	540	450	390	
9/16/2020	44		300		150	530			150
9/17/2020		320		740			460	410	
3/23/2021	53		300						220
3/24/2021		330		530	150	490	380	430	
8/23/2021	55								200
8/24/2021			300		160	510		450	
8/25/2021		390		720			470		
2/22/2022	38		300		150		420		210
2/23/2022		390		630		490		450	
8/2/2022	65		200		270				210
8/3/2022		400					440	430	
8/4/2022				620		480			
2/7/2023	61		290		150			410	190
2/8/2023		370		480		440	400		
8/1/2023	57		330	570	170		450	420	300
8/2/2023		410				520			
2/6/2024	57	350	280		150		420		210
2/7/2024				590		450		370	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/15/2024 2:36 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	177	
8/15/2016		
8/16/2016	160	
9/28/2016		
9/29/2016	190	
11/16/2016	240	
1/16/2017		
1/17/2017		
1/18/2017	180	
1/19/2017		
3/2/2017	170	
4/18/2017		
4/19/2017		
4/25/2017	170	
7/13/2017	150	
10/10/2017	160	
6/12/2018	170	
6/13/2018		
10/9/2018		
10/10/2018	48	
1/29/2019		280
3/25/2019		250
3/26/2019	180	
9/10/2019	140	230
3/9/2020		
3/10/2020	170	260
9/16/2020	190	320
9/17/2020		
3/23/2021		270
3/24/2021	190	
8/23/2021		
8/24/2021		280
8/25/2021	230	
2/22/2022	190	270
2/23/2022		
8/2/2022	150	100 (D)
8/3/2022		
8/4/2022		
2/7/2023	190	260
2/8/2023		
8/1/2023		360
8/2/2023	200	
2/6/2024		260
2/7/2024	200	

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.01726	-167	-92	Yes	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1033	94	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2444	-173	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	182	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5131	113	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.359	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.34	181	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.166	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.063	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.289	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.352	-192	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4746	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.4216	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-116	-92	Yes	22	36.36	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.6093	-165	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.504	-183	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-20.86	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.718	123	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.591	116	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	31.03	109	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-29.01	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-8	57.71	119	92	Yes	22	0	n/a	n/a	0.01	NP

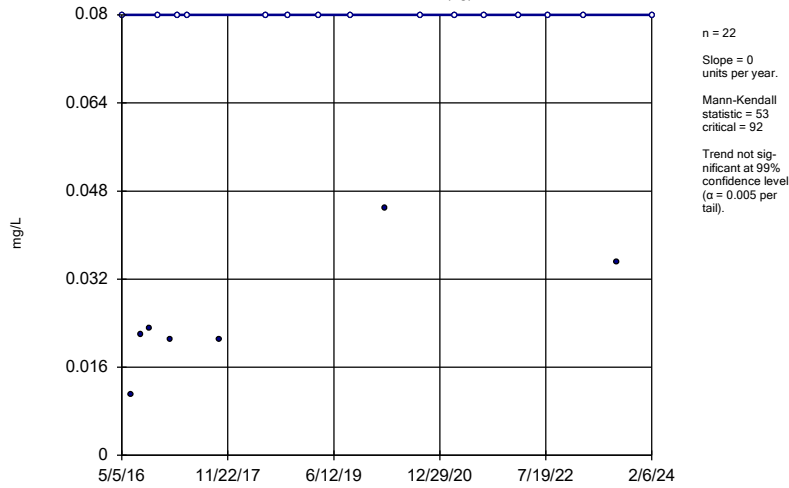
Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:54 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MGWA-10 (bg)	0	53	92	No	22	68.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	3	92	No	22	54.55	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-5 (bg)	0	-13	-92	No	22	77.27	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-6 (bg)	-0.01726	-167	-92	Yes	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	MGWA-6A (bg)	0	-4	-38	No	12	58.33	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1033	94	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2444	-173	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.07362	-68	-92	No	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	182	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5131	113	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.359	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-11 (bg)	0.3609	39	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-5 (bg)	-0.1967	-54	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	47	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	2.531	31	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.34	181	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-10 (bg)	0.006902	18	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.066	-53	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.166	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.063	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.289	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	-0.06926	-83	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.352	-192	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-3	0	-2	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4746	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.4216	129	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-10 (bg)	0	-27	-98	No	23	69.57	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-11 (bg)	-0.003476	-34	-98	No	23	8.696	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-5 (bg)	-0.003389	-74	-98	No	23	17.39	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-6 (bg)	-0.004519	-74	-98	No	23	26.09	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWA-6A (bg)	0.0005219	2	38	No	12	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	MGWC-12	-0.005051	-41	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-116	-92	Yes	22	36.36	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-11 (bg)	0.02237	29	92	No	22	27.27	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.6093	-165	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.504	-183	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6A (bg)	0.1382	8	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.843	55	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-20.86	-198	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.718	123	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.591	116	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	31.03	109	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-2.285	-41	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	5.007	56	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-5 (bg)	0	20	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-0.7074	-31	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	3	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-1	10.26	62	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-29.01	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-3	5.524	60	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	MGWC-8	57.71	119	92	Yes	22	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

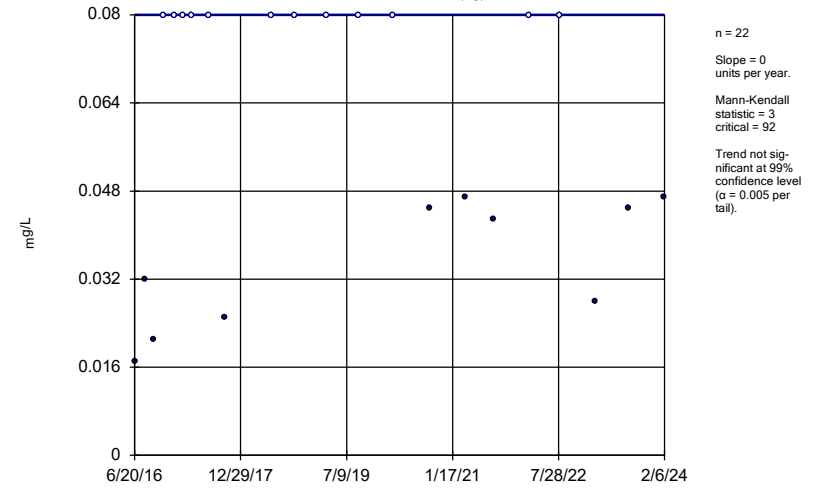
MGWA-10 (bg)



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

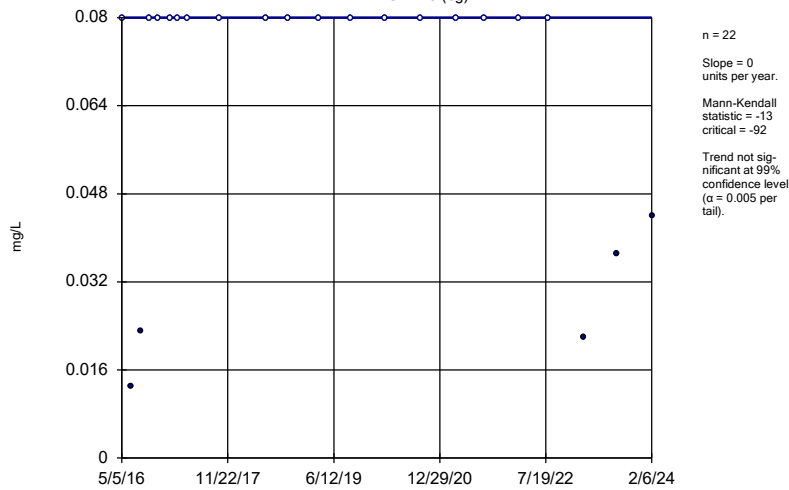
MGWA-11 (bg)



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

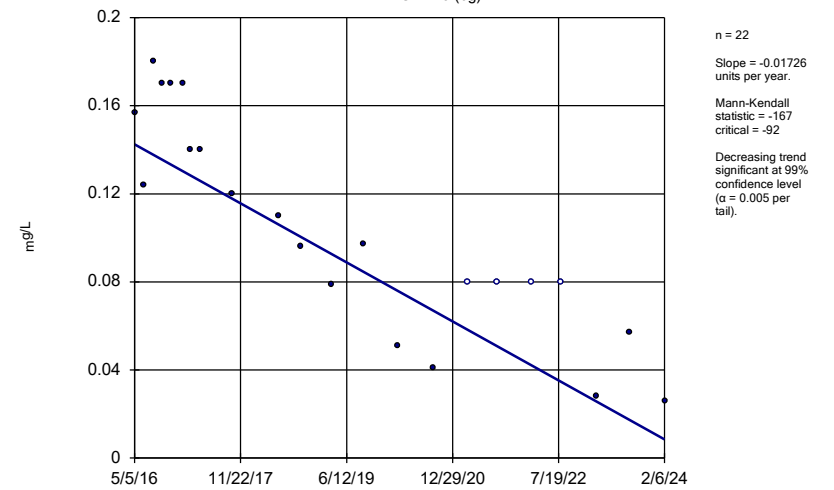
MGWA-5 (bg)



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

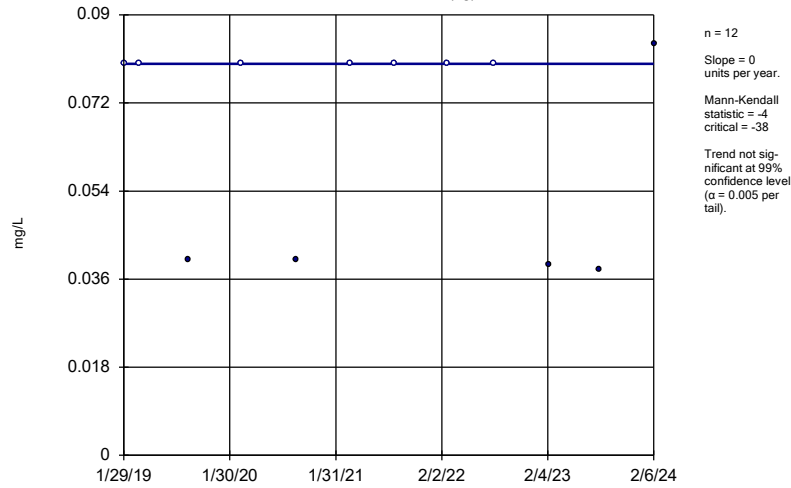
MGWA-6 (bg)



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

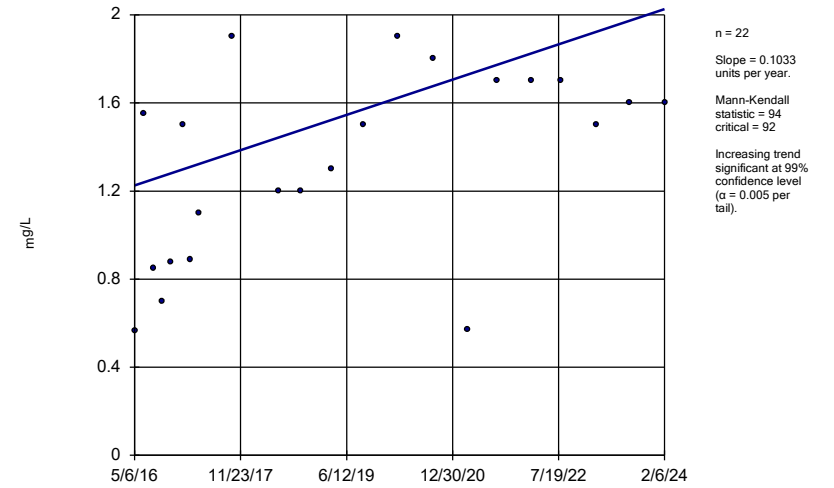
MGWA-6A (bg)



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

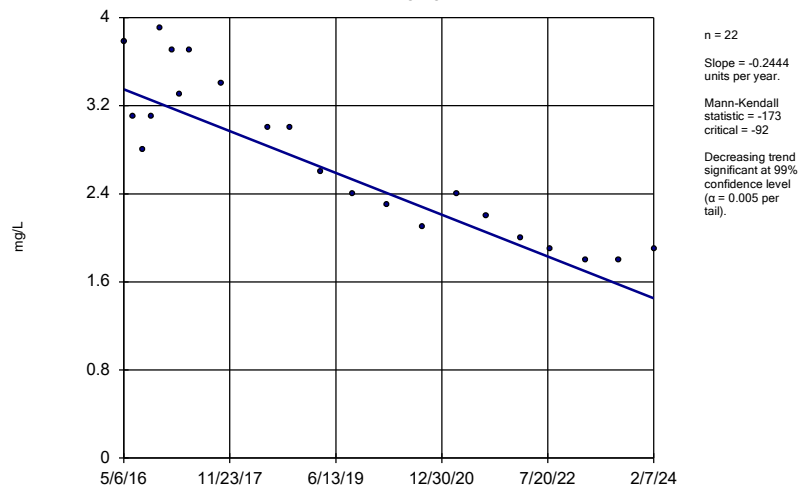
MGWC-1



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

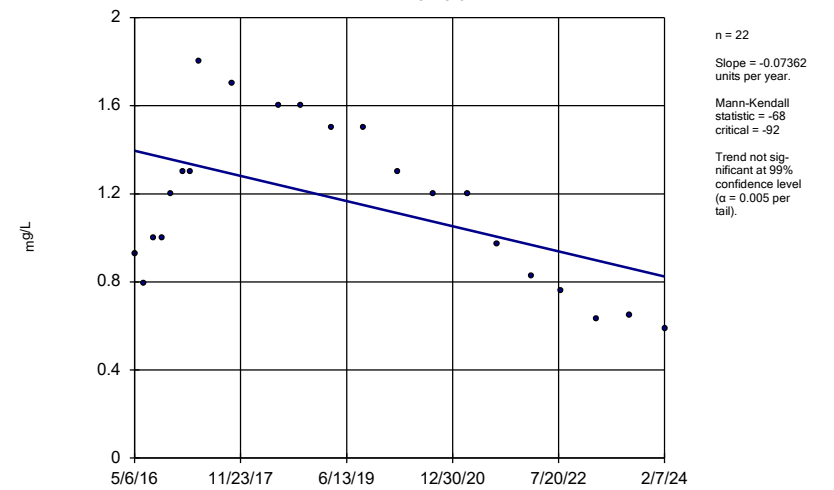
MGWC-2



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

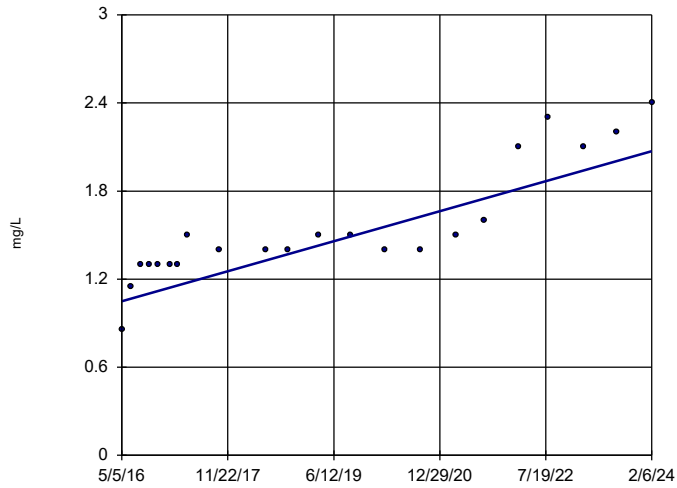
MGWC-3



Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-7

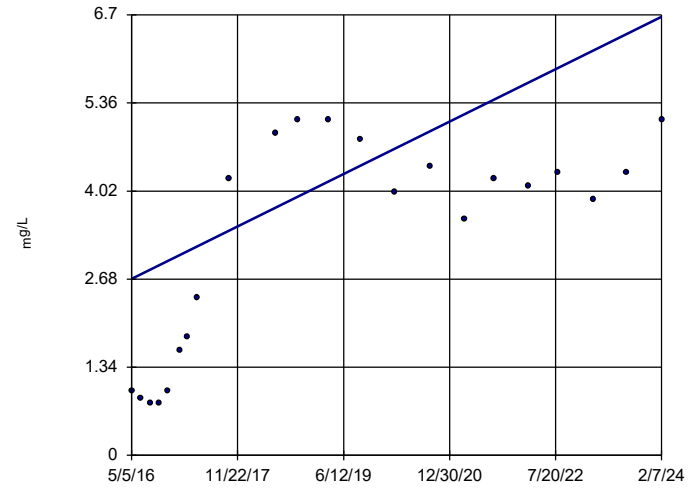


n = 22
 Slope = 0.1315
 units per year.
 Mann-Kendall
 statistic = 182
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-8

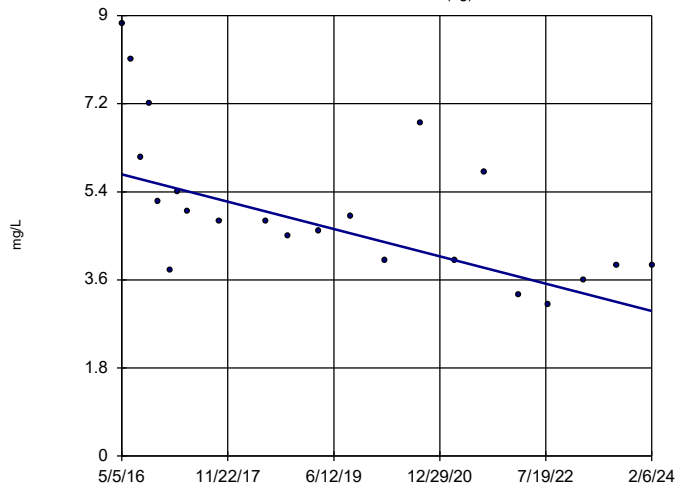


n = 22
 Slope = 0.5131
 units per year.
 Mann-Kendall
 statistic = 113
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-10 (bg)

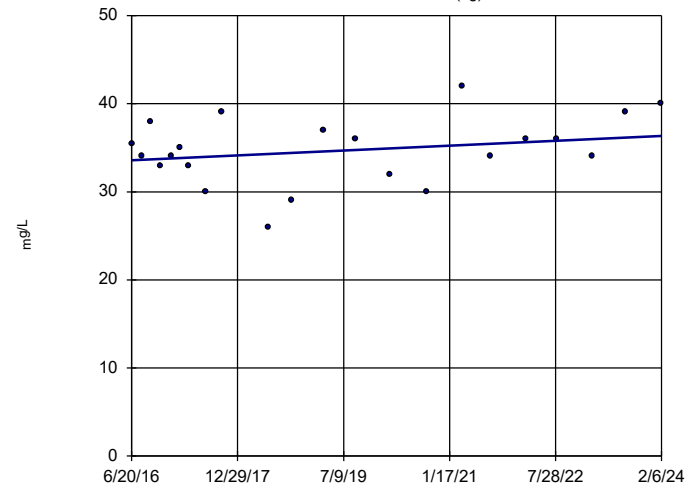


n = 22
 Slope = -0.359
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

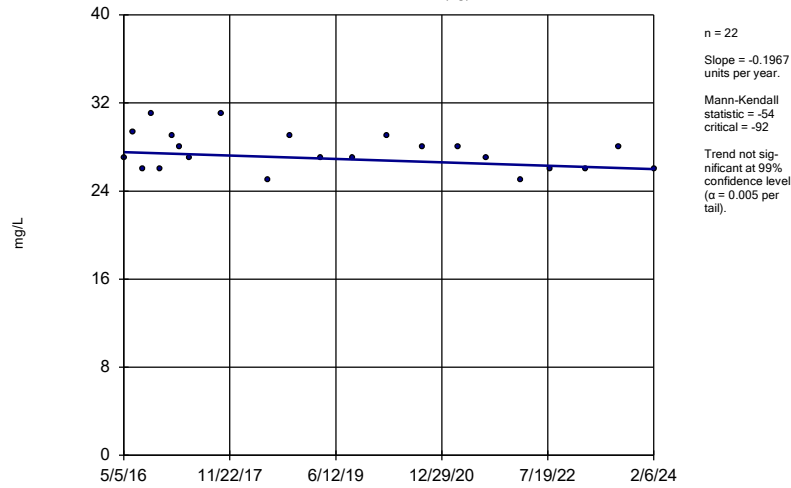


n = 22
 Slope = 0.3609
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

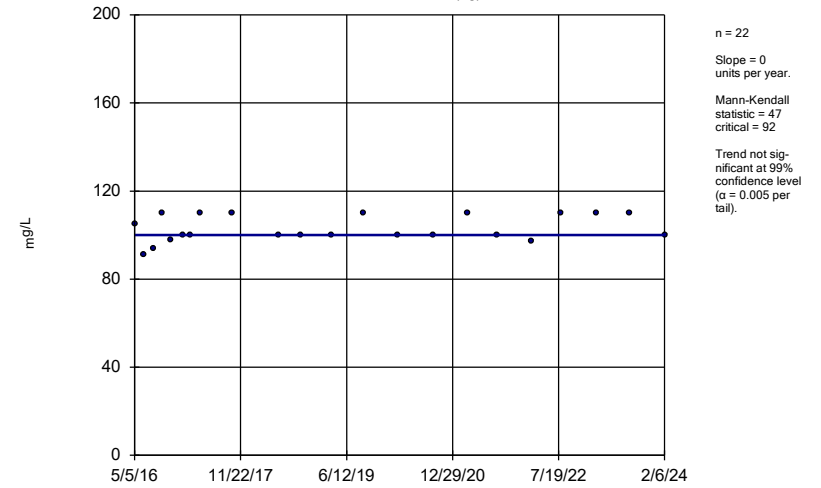
MGWA-5 (bg)



Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

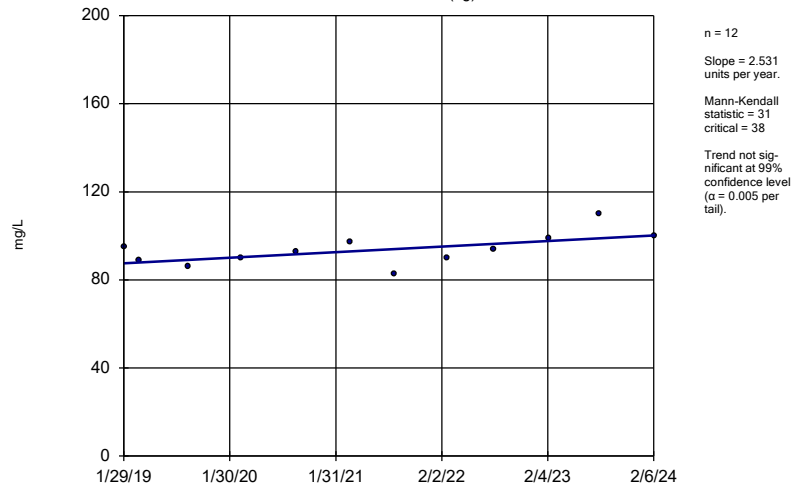
MGWA-6 (bg)



Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

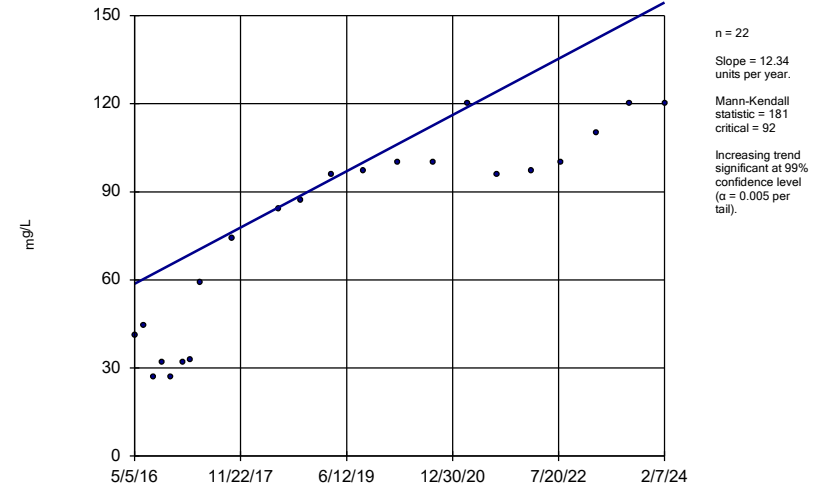
MGWA-6A (bg)



Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

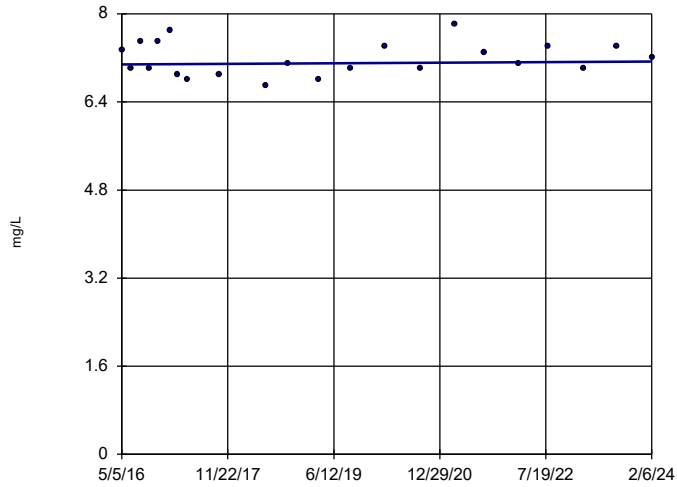
MGWC-8



Constituent: Calcium Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-10 (bg)

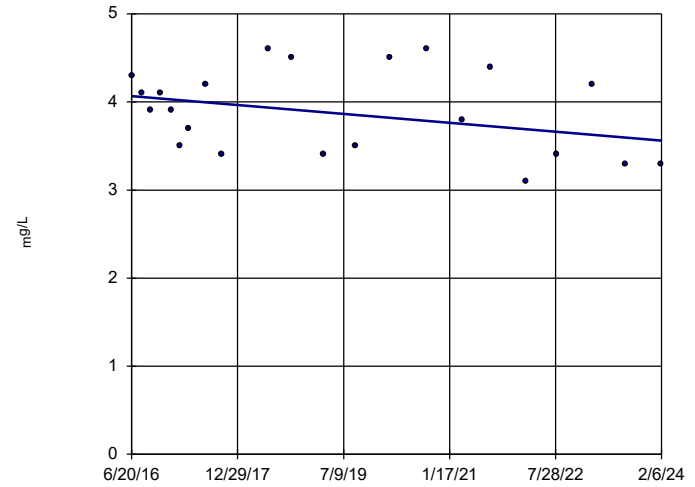


n = 22
 Slope = 0.006902
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

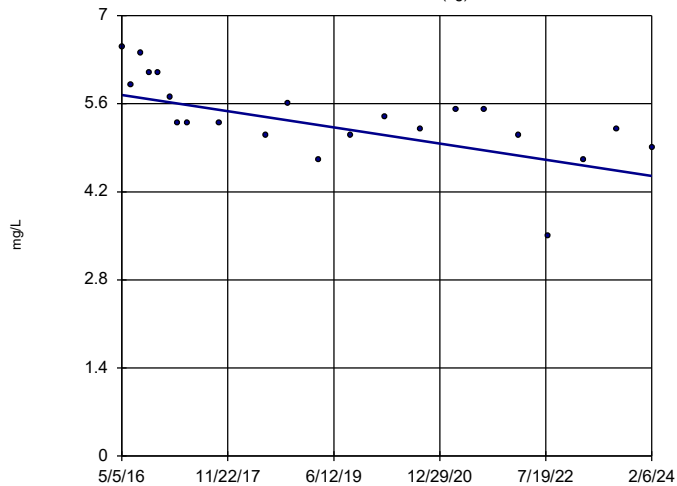


n = 22
 Slope = -0.066
 units per year.
 Mann-Kendall
 statistic = -53
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-5 (bg)

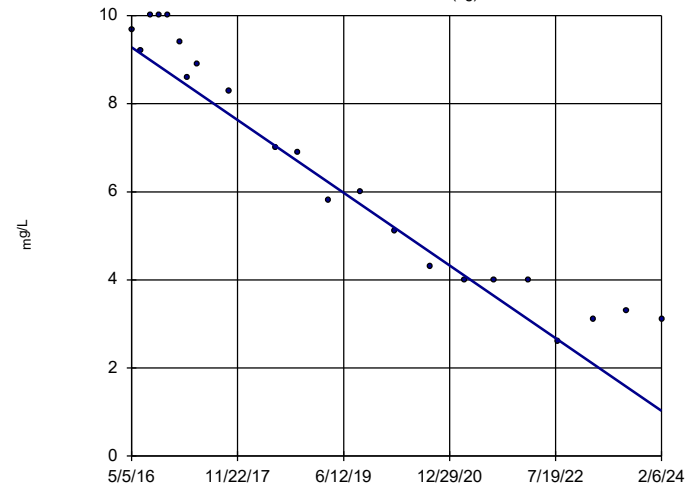


n = 22
 Slope = -0.166
 units per year.
 Mann-Kendall
 statistic = -133
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)

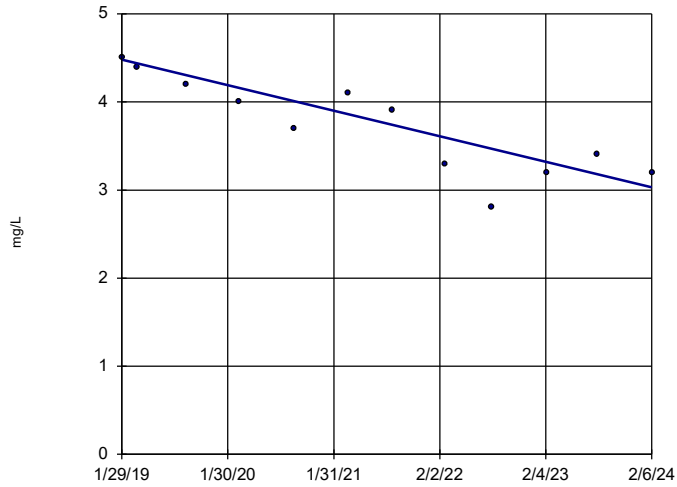


n = 22
 Slope = -1.063
 units per year.
 Mann-Kendall
 statistic = -198
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

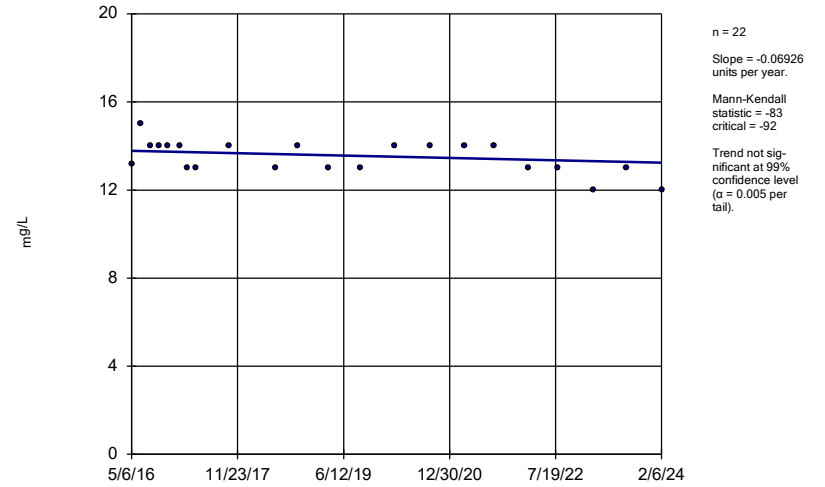
MGWA-6A (bg)



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

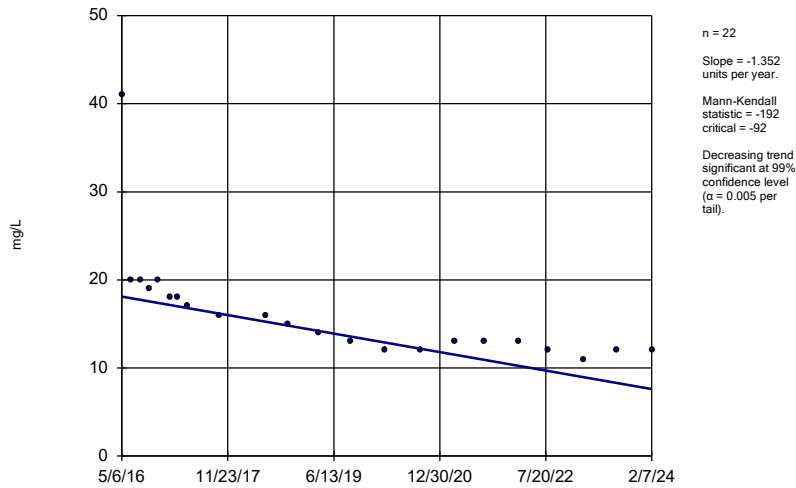
MGWC-1



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

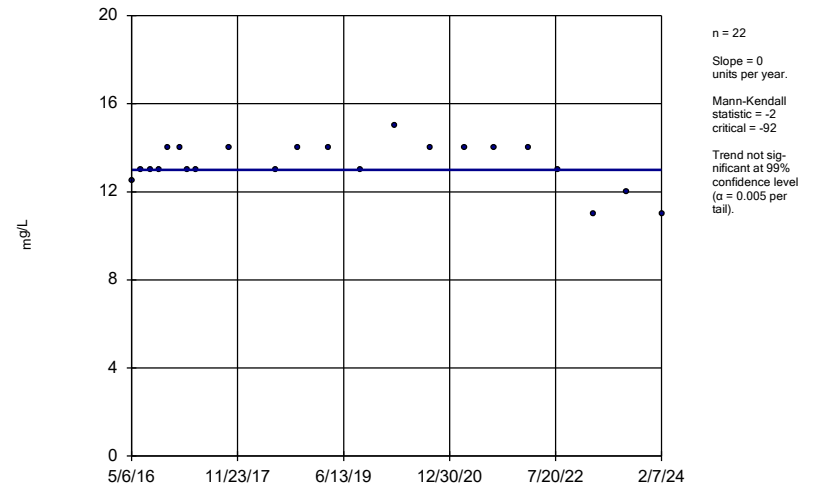
MGWC-2



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

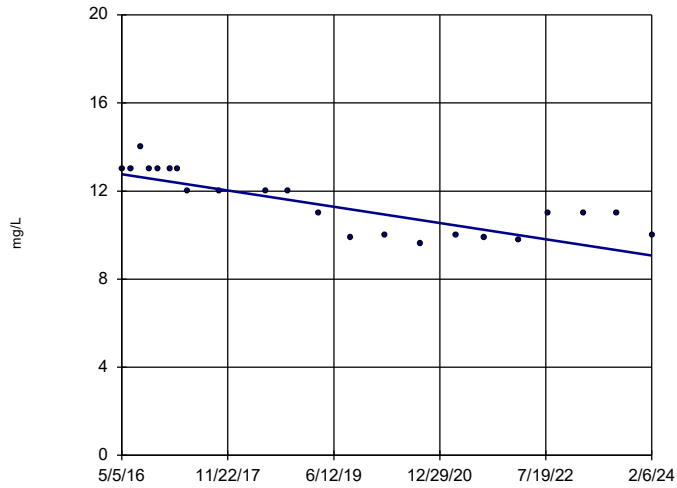
MGWC-3



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

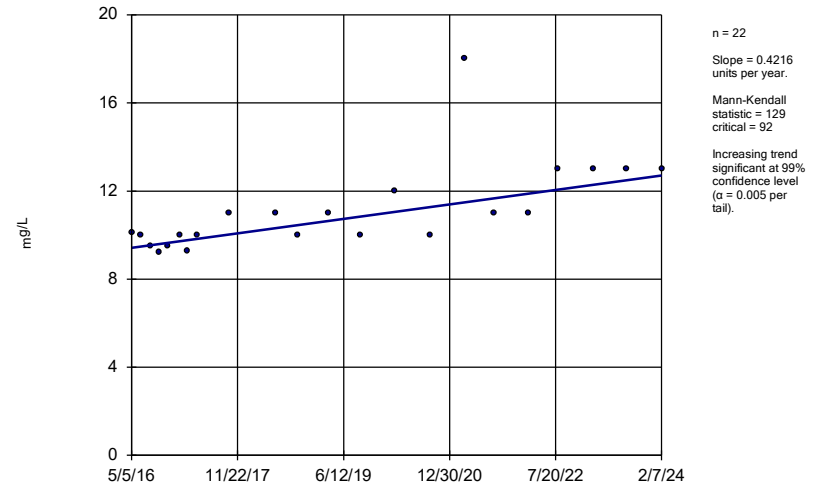
MGWC-7



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

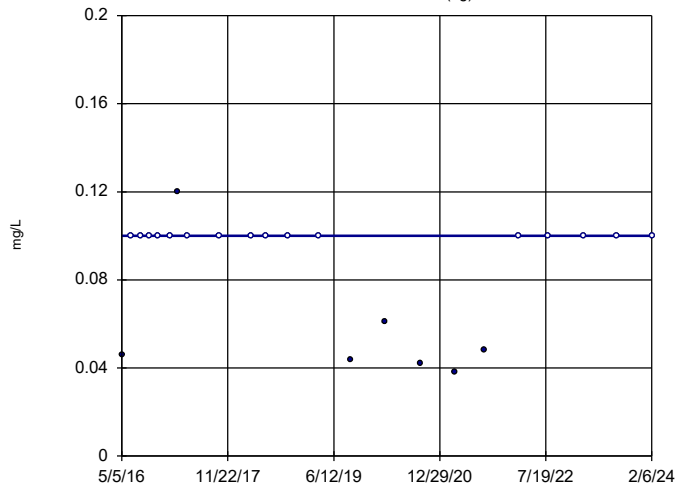
MGWC-8



Constituent: Chloride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

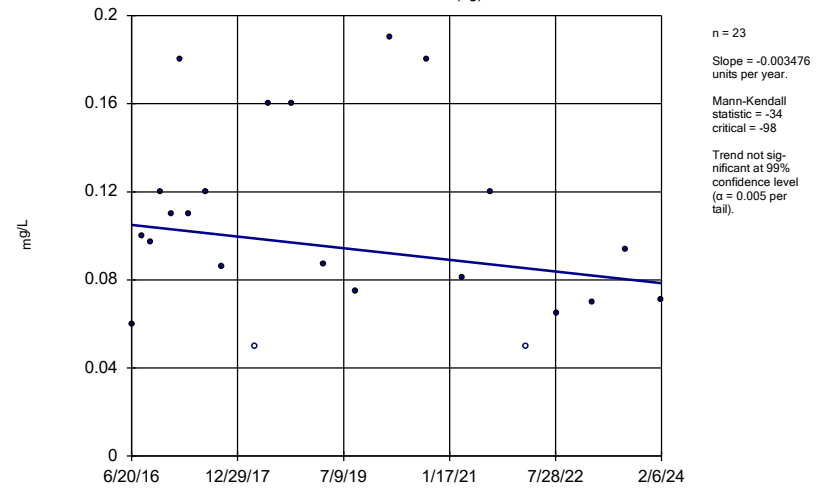
MGWA-10 (bg)



Constituent: Fluoride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

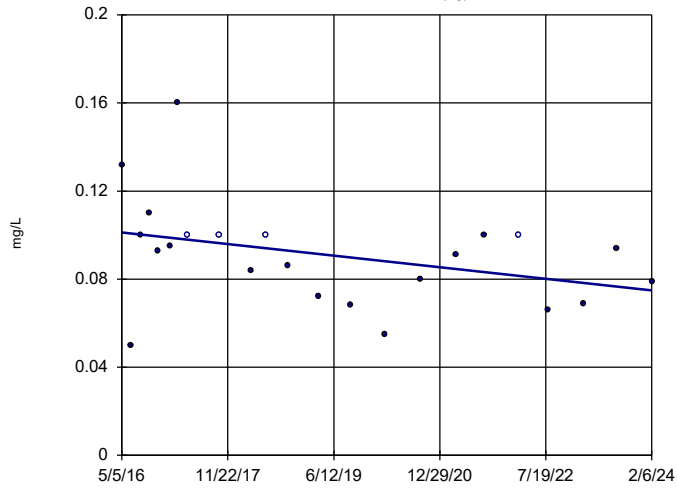
MGWA-11 (bg)



Constituent: Fluoride Analysis Run 3/15/2024 2:37 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-5 (bg)

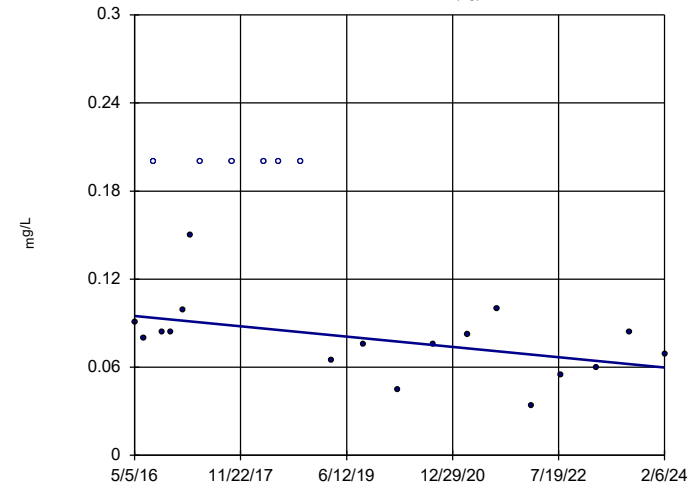


n = 23
 Slope = -0.003389
 units per year.
 Mann-Kendall
 statistic = -74
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)

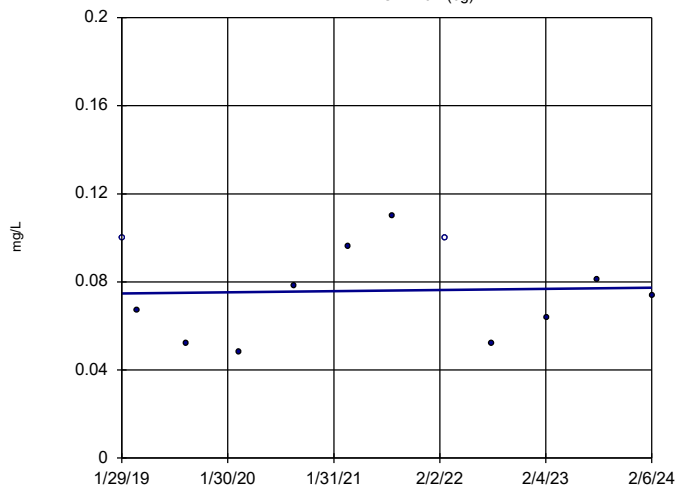


n = 23
 Slope = -0.004519
 units per year.
 Mann-Kendall
 statistic = -74
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6A (bg)

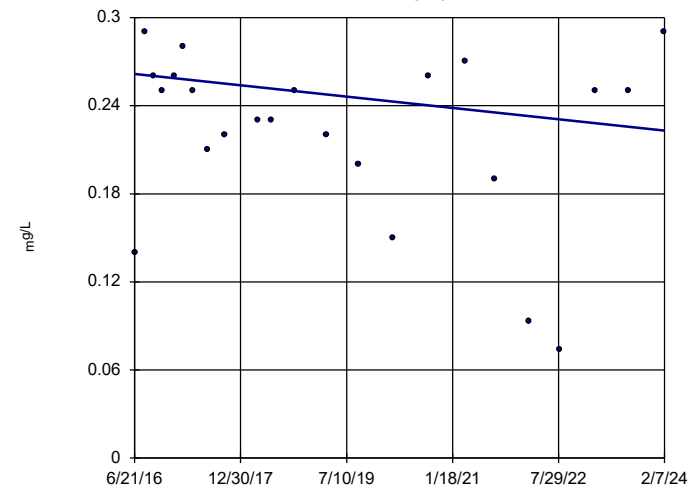


n = 12
 Slope = 0.0005219
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-12

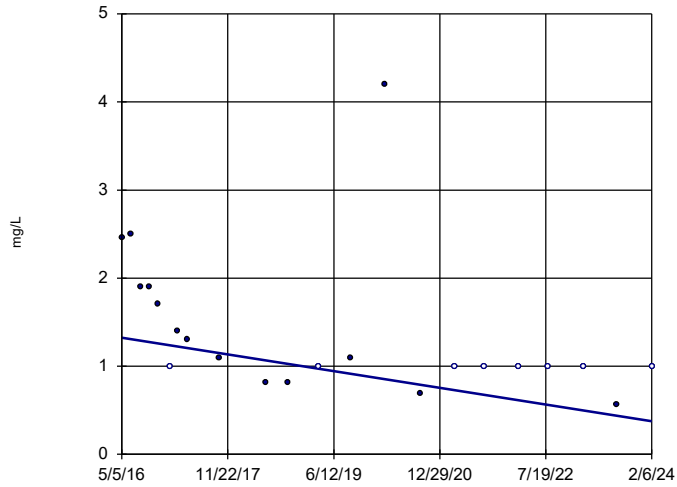


n = 23
 Slope = -0.005051
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-10 (bg)

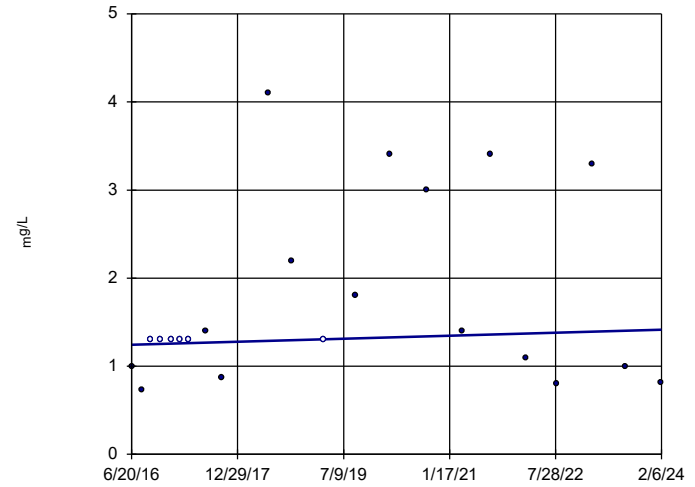


n = 22
Slope = -0.1225
units per year.
Mann-Kendall
statistic = -116
critical = -92
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

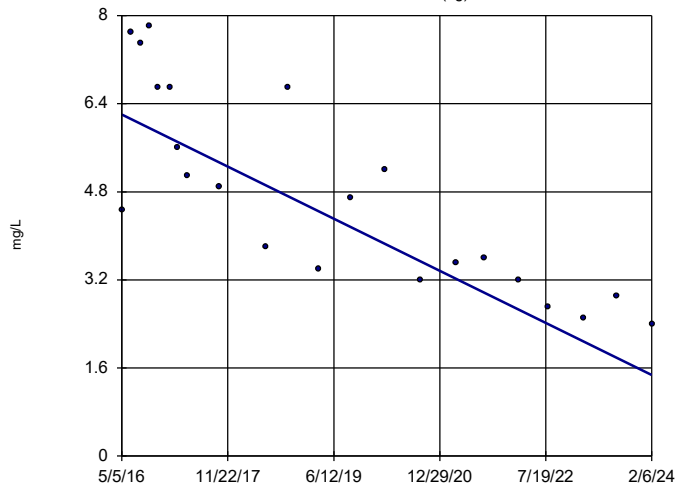


n = 22
Slope = 0.02237
units per year.
Mann-Kendall
statistic = 29
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-5 (bg)

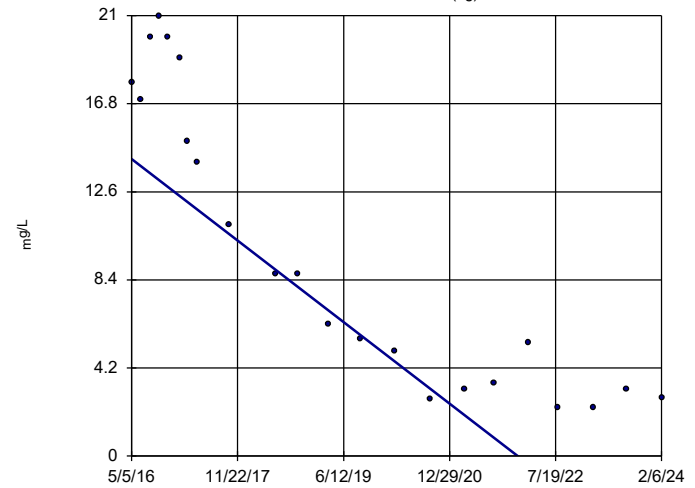


n = 22
Slope = -0.6093
units per year.
Mann-Kendall
statistic = -165
critical = -92
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)

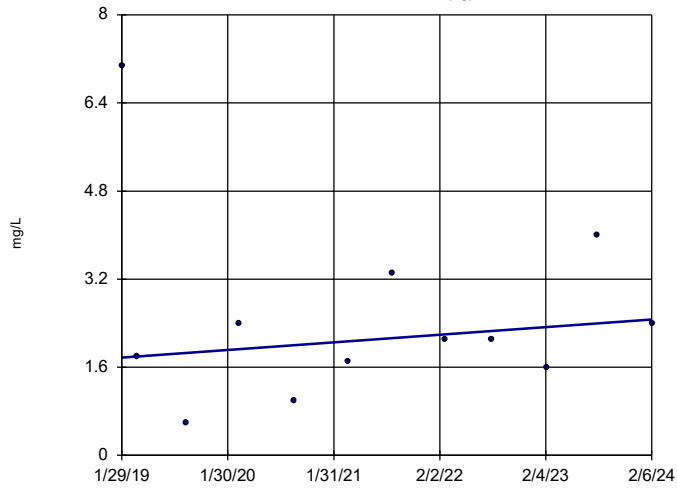


n = 22
Slope = -2.504
units per year.
Mann-Kendall
statistic = -183
critical = -92
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6A (bg)

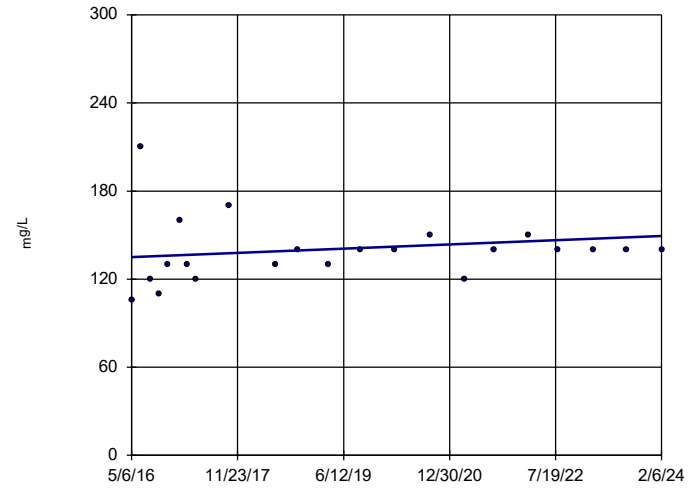


n = 12
 Slope = 0.1382
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-1

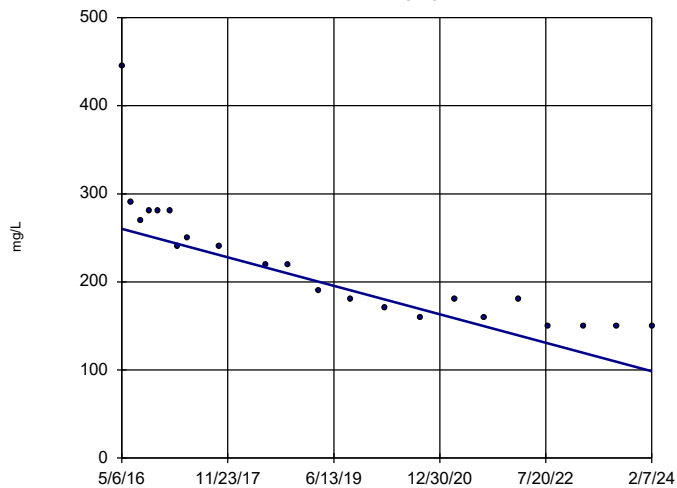


n = 22
 Slope = 1.843
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-2

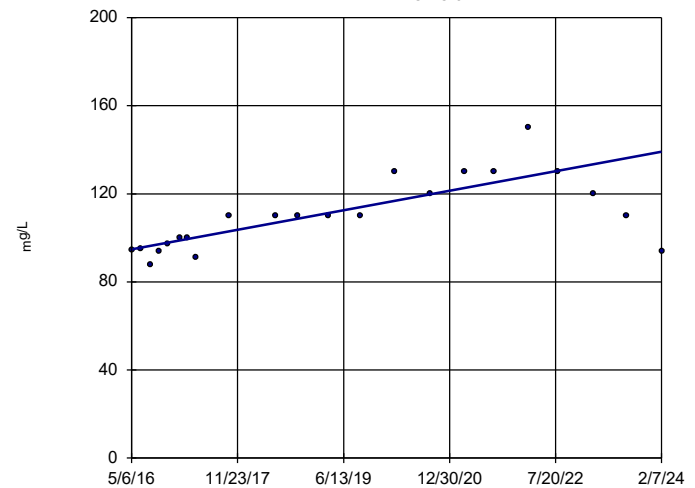


n = 22
 Slope = -20.86
 units per year.
 Mann-Kendall
 statistic = -198
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-3

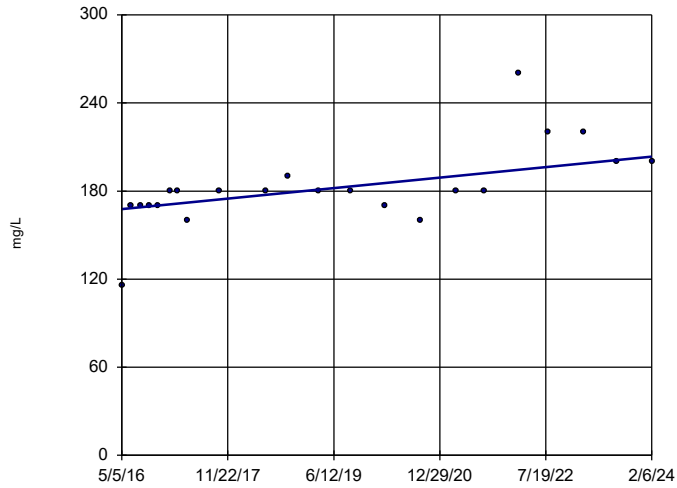


n = 22
 Slope = 5.718
 units per year.
 Mann-Kendall
 statistic = 123
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-7

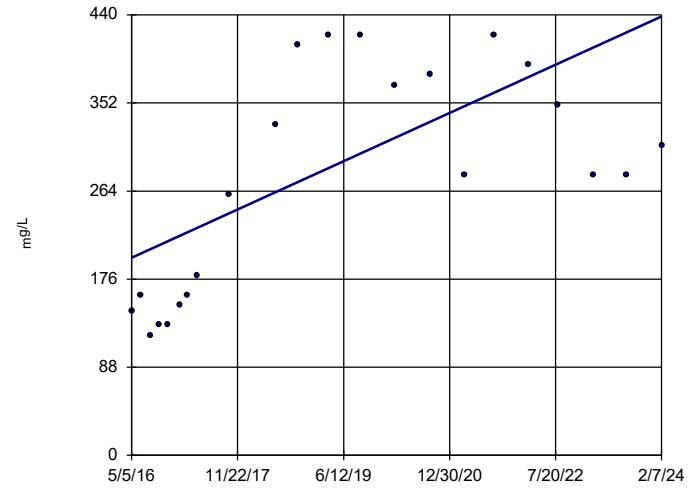


n = 22
 Slope = 4.591
 units per year.
 Mann-Kendall
 statistic = 116
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-8

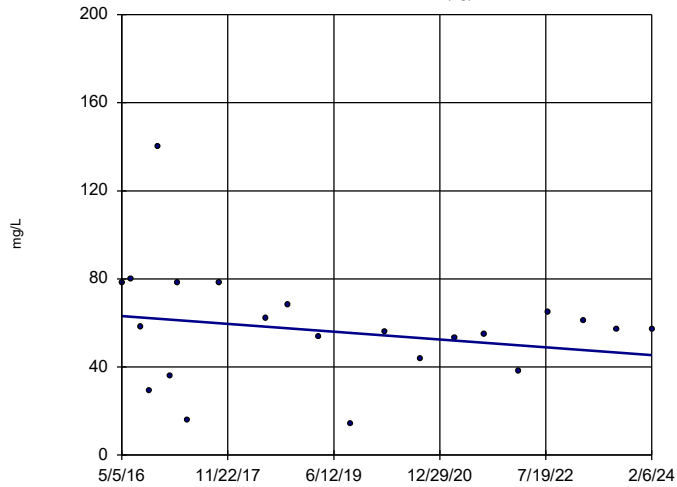


n = 22
 Slope = 31.03
 units per year.
 Mann-Kendall
 statistic = 109
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-10 (bg)

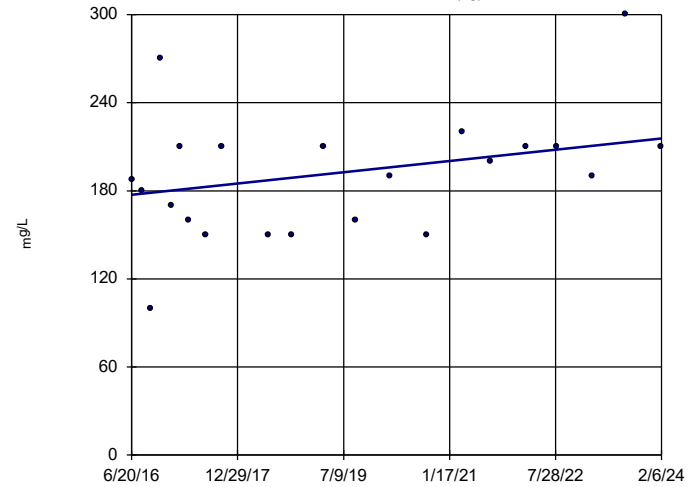


n = 22
 Slope = -2.285
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

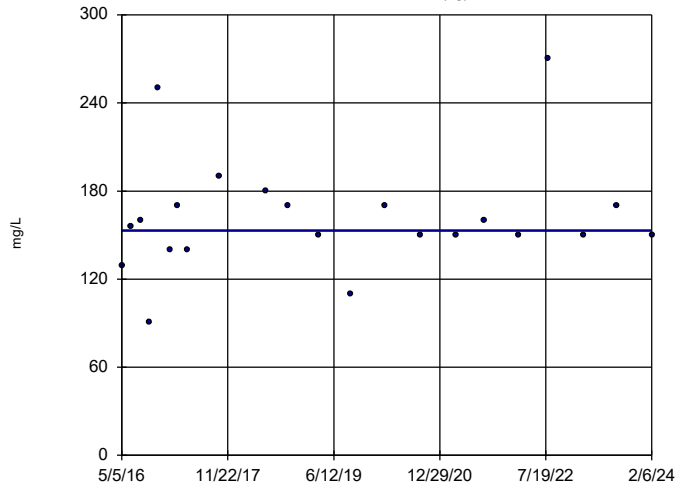


n = 22
 Slope = 5.007
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-5 (bg)

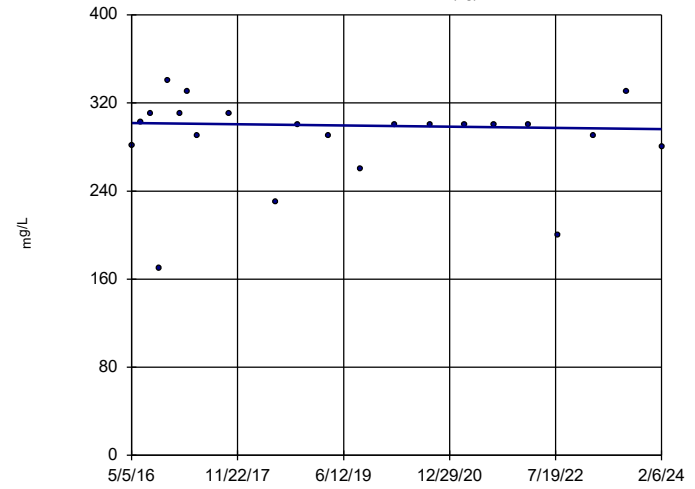


n = 22
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)

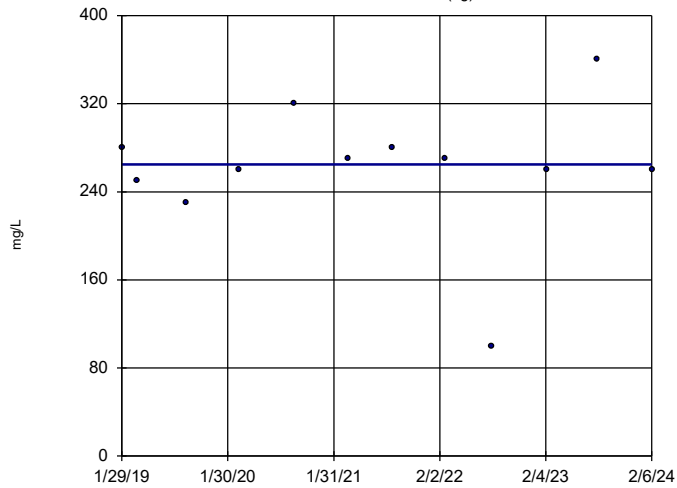


n = 22
 Slope = -0.7074
 units per year.
 Mann-Kendall
 statistic = -31
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6A (bg)

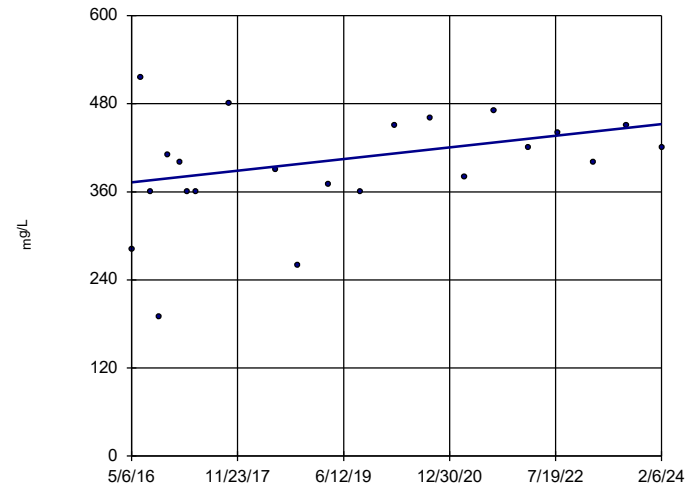


n = 12
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-1

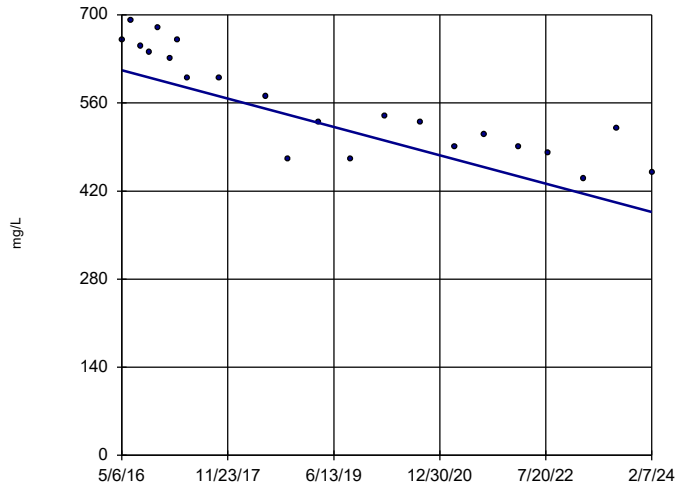


n = 22
 Slope = 10.26
 units per year.
 Mann-Kendall
 statistic = 62
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-2

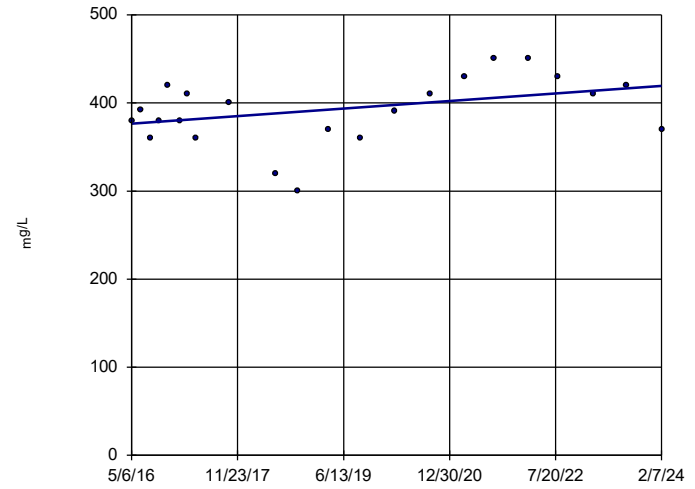


n = 22
 Slope = -29.01
 units per year.
 Mann-Kendall
 statistic = -167
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-3

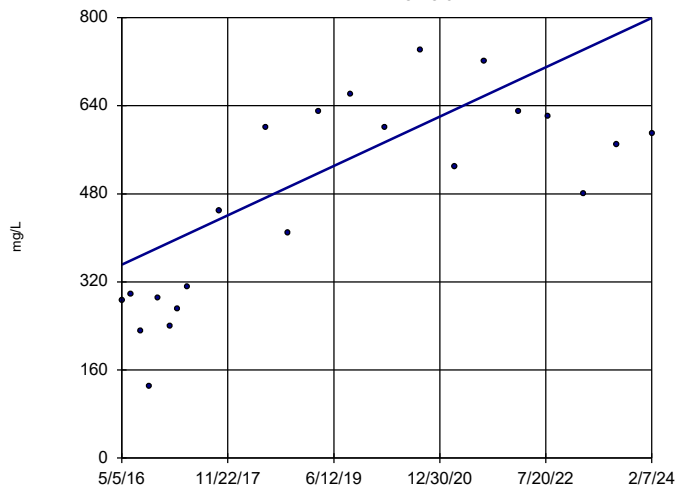


n = 22
 Slope = 5.524
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-8



n = 22
 Slope = 57.71
 units per year.
 Mann-Kendall
 statistic = 119
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 3/15/2024 2:38 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

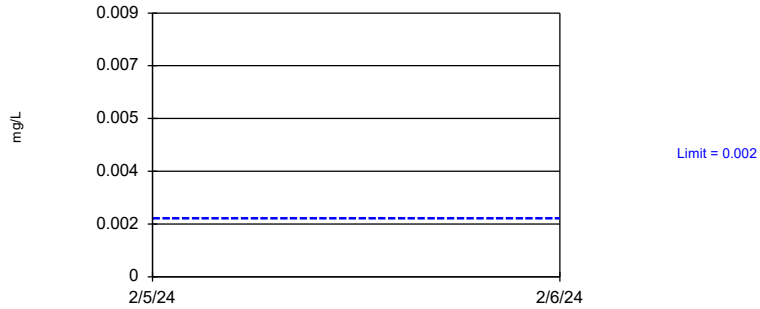
FIGURE F.

Upper Tolerance Limits

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 11:45 AM

<u>Constituent</u>	<u>Upper Lim.</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>
Antimony (mg/L)	0.002	91	n/a	n/a	92.31	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.014	101	n/a	n/a	34.65	n/a	n/a	0.005625	NP Inter(normality)
Barium (mg/L)	0.13	109	n/a	n/a	0	n/a	n/a	0.003731	NP Inter(normality)
Beryllium (mg/L)	0.0025	99	n/a	n/a	94.95	n/a	n/a	0.006232	NP Inter(NDs)
Cadmium (mg/L)	0.0025	109	n/a	n/a	99.08	n/a	n/a	0.003731	NP Inter(NDs)
Chromium (mg/L)	0.0066	99	n/a	n/a	72.73	n/a	n/a	0.006232	NP Inter(NDs)
Cobalt (mg/L)	0.0025	108	n/a	n/a	73.15	n/a	n/a	0.003928	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.224	110	0.5999	0.3267	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	104	n/a	n/a	28.85	n/a	n/a	0.004822	NP Inter(normality)
Lead (mg/L)	0.001	91	n/a	n/a	94.51	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.037	109	n/a	n/a	30.28	n/a	n/a	0.003731	NP Inter(normality)
Mercury (mg/L)	0.0002	99	n/a	n/a	96.97	n/a	n/a	0.006232	NP Inter(NDs)
Molybdenum (mg/L)	0.015	99	n/a	n/a	65.66	n/a	n/a	0.006232	NP Inter(NDs)
Selenium (mg/L)	0.005	79	n/a	n/a	92.41	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	0.001	99	n/a	n/a	84.85	n/a	n/a	0.006232	NP Inter(NDs)

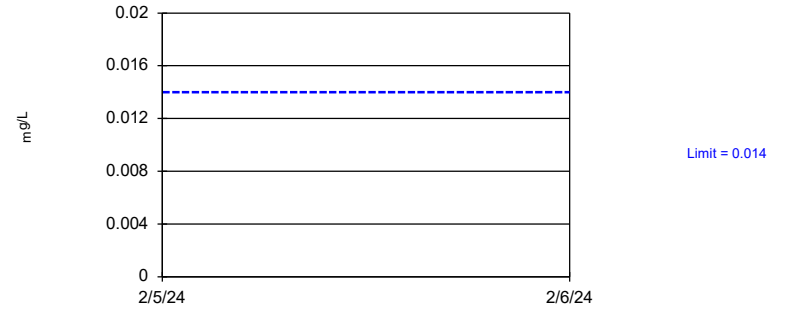
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 91 background values. 92.31% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Antimony Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

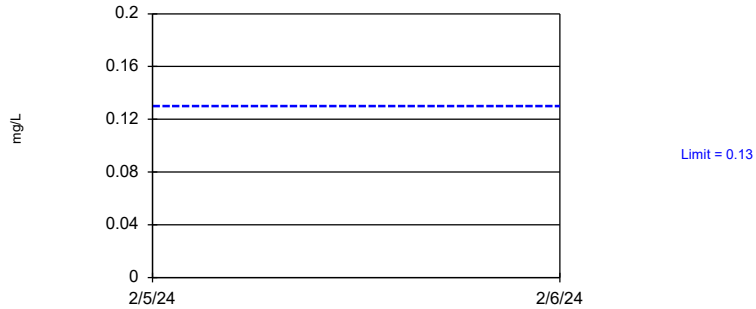
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 101 background values. 34.65% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.005625.

Constituent: Arsenic Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

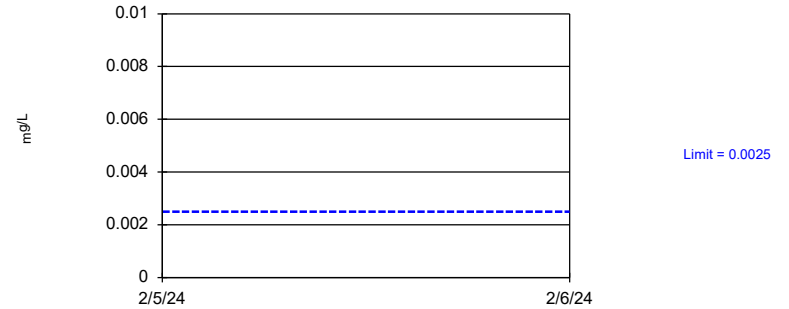
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003731.

Constituent: Barium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

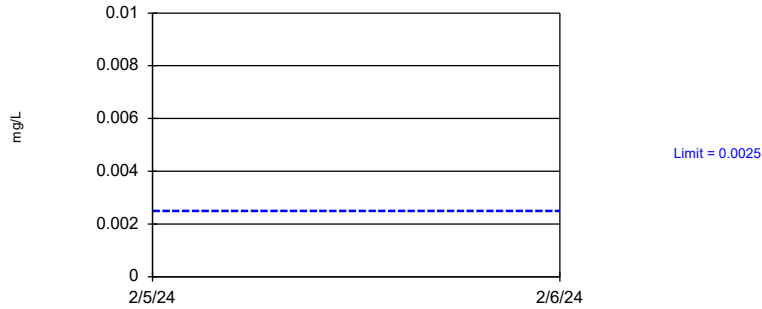
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 94.95% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Beryllium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

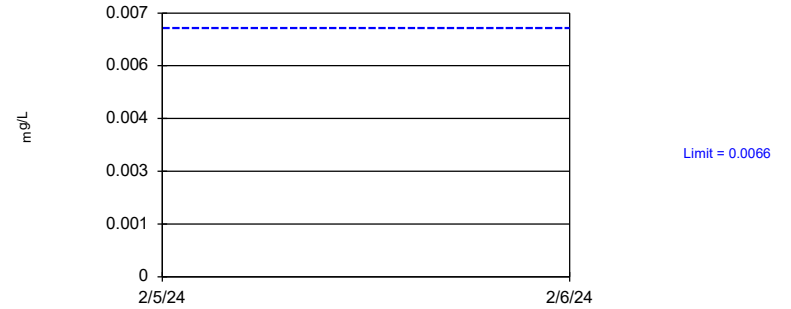
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 109 background values. 99.08% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003731.

Constituent: Cadmium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

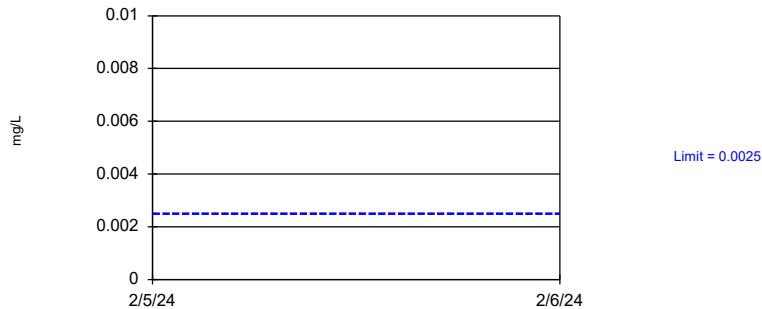
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 72.73% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Chromium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

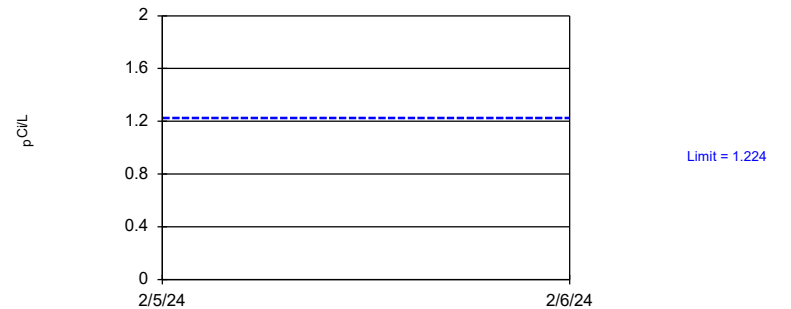
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 108 background values. 73.15% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003928.

Constituent: Cobalt Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

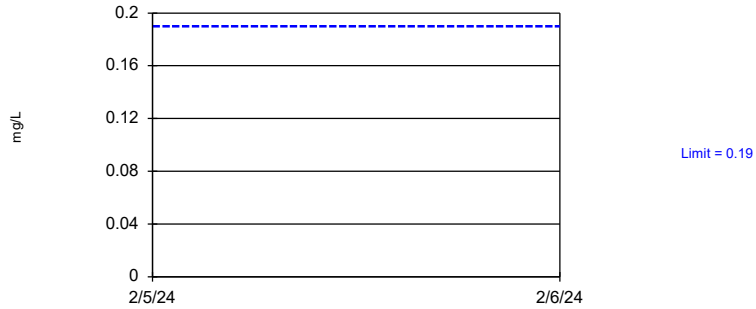
Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary: Mean=0.5999, Std. Dev.=0.3267, n=110. Normality test: Chi Squared @alpha = 0.01, calculated = 2.364, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

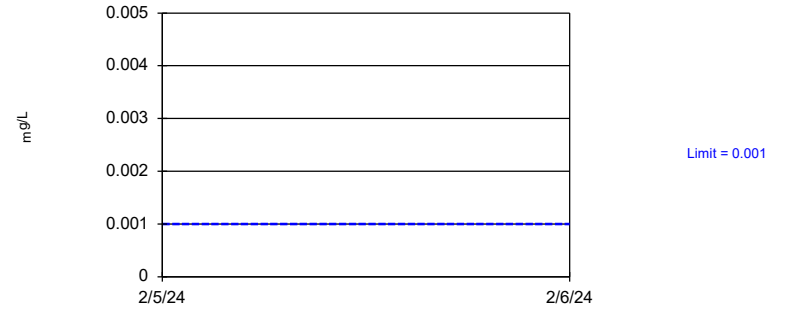
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 104 background values. 28.85% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Fluoride Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

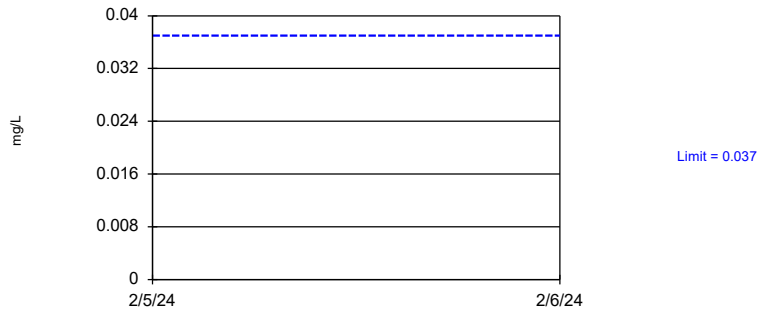
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 91 background values. 94.51% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lead Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

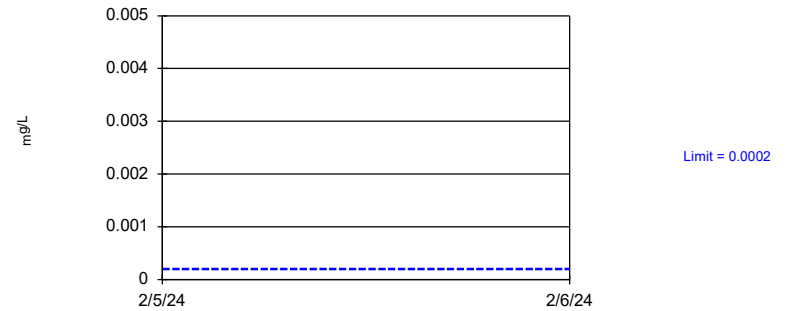
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 30.28% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003731.

Constituent: Lithium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

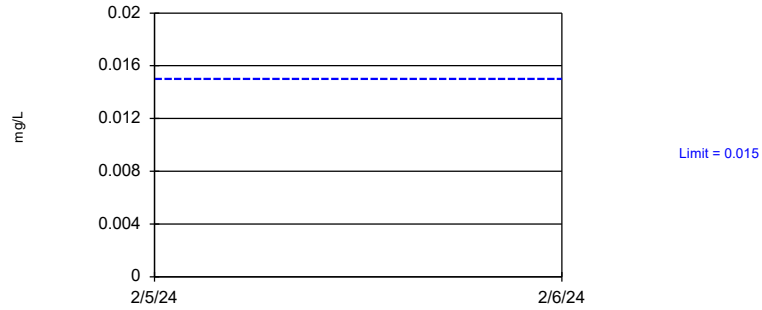
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 96.97% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Mercury Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

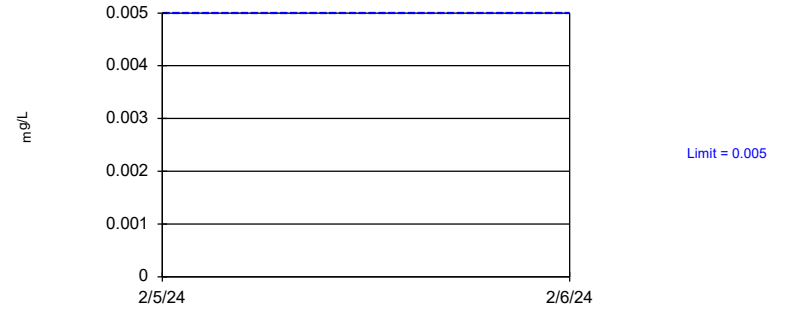
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 65.66% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Molybdenum Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

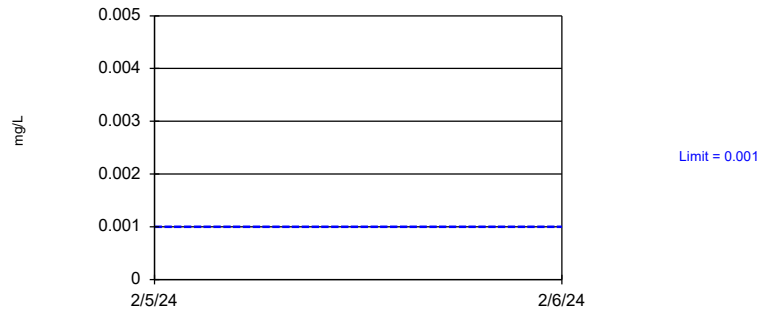
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 79 background values. 92.41% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01738.

Constituent: Selenium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 99 background values. 84.85% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.006232.

Constituent: Thallium Analysis Run 3/19/2024 11:44 AM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

FIGURE G.

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.22	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	MGWC-7	0.009466	0.006526	0.006	Yes 24	0.007996	0.002881	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01469	0.006516	0.006	Yes 24	0.0106	0.00801	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.13	0.112	0.04	Yes 24	0.1226	0.01885	0	None	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No 20	0.001895	0.0003692	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.0003	0.006	No 20	0.001915	0.0003801	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No 20	0.001924	0.0003329	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002713	0.001892	0.014	No 24	0.002303	0.0008047	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-12	0.001073	0.0006865	0.014	No 24	0.001012	0.0003519	29.17	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No 24	0.0009204	0.0001914	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001781	0.00143	0.014	No 24	0.001605	0.0003447	4.167	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.0007943	0.0005196	0.014	No 24	0.0008421	0.0002816	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-8	0.001	0.00098	0.014	No 24	0.0009367	0.0002479	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	MGWC-1	0.11	0.096	2	No 24	0.1072	0.01565	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06406	0.0506	2	No 24	0.05733	0.01319	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-2	0.05315	0.04755	2	No 24	0.05035	0.005486	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.1574	0.1429	2	No 24	0.1501	0.01417	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.015	0.011	2	No 24	0.014	0.006817	4.167	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-8	0.0422	0.03442	2	No 24	0.03889	0.008528	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No 22	0.002395	0.0004946	95.45	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No 22	0.0024	0.0004669	95.45	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.001128	0.0005715	0.004	No 22	0.001245	0.0007933	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No 24	0.002021	0.0009567	79.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002734	0.001084	0.005	No 24	0.00216	0.001886	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No 24	0.002227	0.0007381	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.001836	0.0007055	0.005	No 24	0.001672	0.001186	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0036	0.0014	0.1	No 22	0.002045	0.00037	90.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No 22	0.003245	0.005761	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0033	0.002	0.1	No 22	0.002059	0.0002772	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No 22	0.002045	0.0002132	95.45	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No 22	0.002009	0.0003584	86.36	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No 22	0.002018	0.0002839	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.0004	0.006	No 24	0.001723	0.001041	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No 24	0.002361	0.0005112	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.003115	0.002171	0.006	No 24	0.002643	0.0009249	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00068	0.00051	0.006	No 24	0.0007529	0.0004596	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.009466	0.006526	0.006	Yes 24	0.007996	0.002881	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01469	0.006516	0.006	Yes 24	0.0106	0.00801	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.722	1.337	5	No 25	1.53	0.3866	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.7469	0.4705	5	No 24	0.6087	0.2708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7803	0.5019	5	No 24	0.6411	0.2728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.768	1.406	5	No 25	1.587	0.3631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.347	0.9917	5	No 24	1.169	0.3477	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.885	1.328	5	No 24	1.606	0.5459	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2218	0.1398	4	No 23	0.1808	0.0784	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-12	0.2538	0.2028	4	No 23	0.2225	0.05854	0	None	x^2	0.01	Param.
Fluoride (mg/L)	MGWC-2	0.2	0.076	4	No 23	0.1246	0.05819	30.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-3	0.2	0.082	4	No 23	0.1234	0.05749	26.09	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3173	0.2109	4	No 23	0.2641	0.1018	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.1058	0.07179	4	No 23	0.08878	0.03248	13.04	None	No	0.01	Param.
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No 20	0.000955	0.0002012	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No 20	0.0009635	0.0001632	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No 20	0.000885	0.0002815	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No 20	0.000961	0.0001744	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	MGWC-1	0.01201	0.01	0.04	No 24	0.011	0.001963	4.167	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02255	0.01698	0.04	No 24	0.01977	0.005461	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0065	0.0051	0.04	No 24	0.006474	0.00409	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01322	0.01122	0.04	No 24	0.01222	0.00196	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.13	0.112	0.04	Yes 24	0.1226	0.01885	0	None	No	0.01	NP (normality)

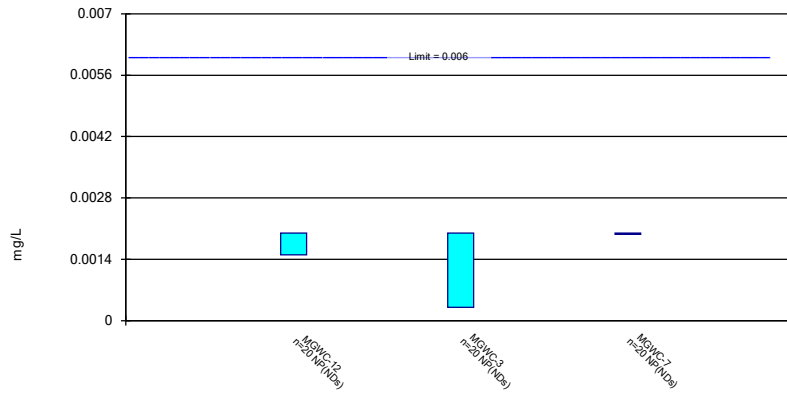
Confidence Interval Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/19/2024, 12:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-8	0.03573	0.02341	0.04	No 24	0.02957	0.01207	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No 22	0.0001891	0.00003536	90.91	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No 22	0.0001899	0.00003284	90.91	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No 22	0.0001941	0.00002772	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No 22	0.0001945	0.00002558	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00026	0.00014	0.002	No 23	0.0004111	0.0008219	34.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-1	0.0021	0.0011	0.1	No 22	0.01483	0.02903	18.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No 22	0.0113	0.006195	72.73	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No 22	0.01448	0.00245	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No 22	0.01449	0.002409	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No 18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No 18	0.004737	0.001115	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No 18	0.004747	0.001072	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No 18	0.004747	0.001075	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No 18	0.004737	0.001117	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No 18	0.004077	0.00183	77.78	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No 22	0.0008093	0.0003622	77.27	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No 22	0.0009282	0.0002332	90.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No 22	0.0009641	0.0001684	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No 22	0.0009332	0.0002187	90.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00018	0.002	No 22	0.0005086	0.0003885	36.36	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

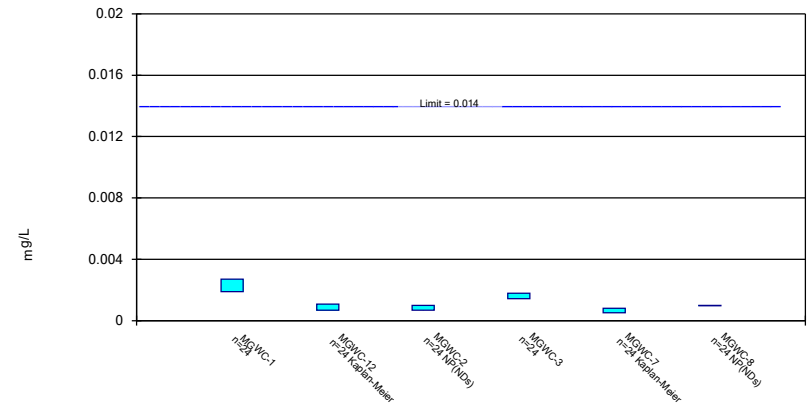
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

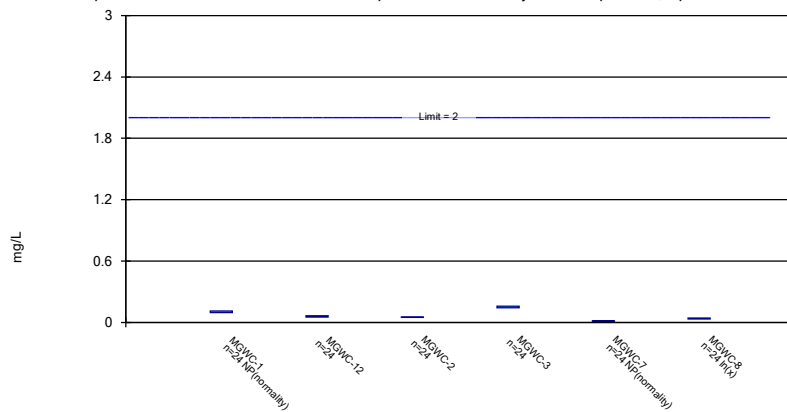
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

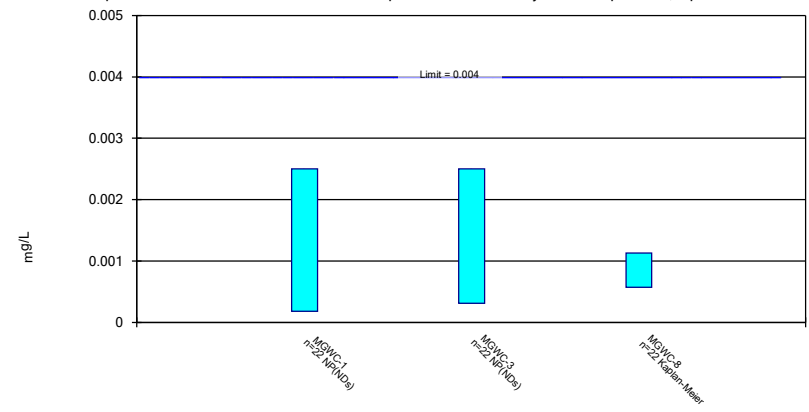
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

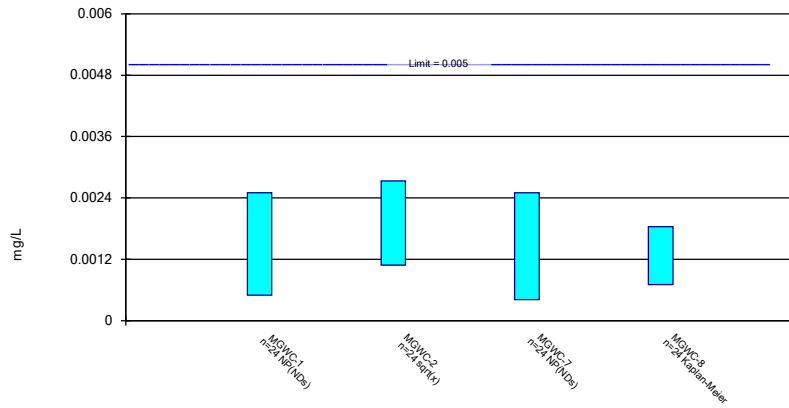
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

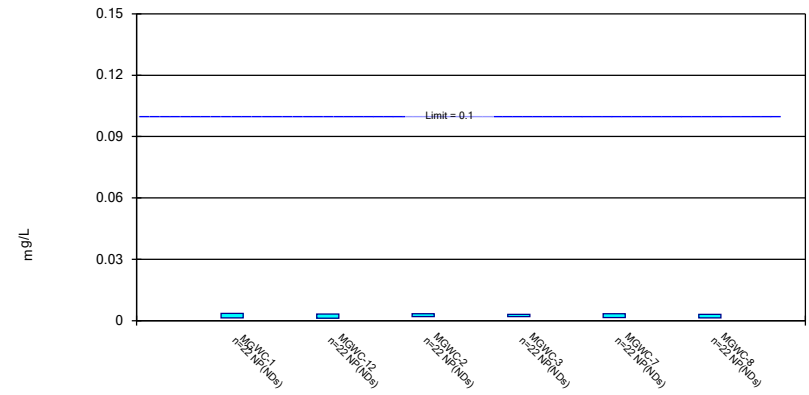
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

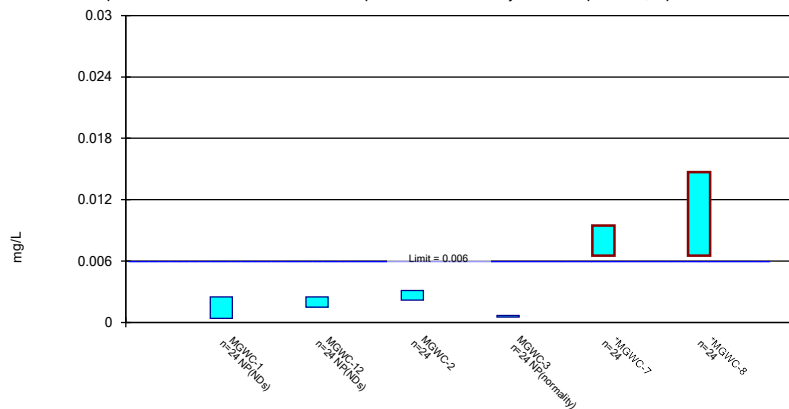
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

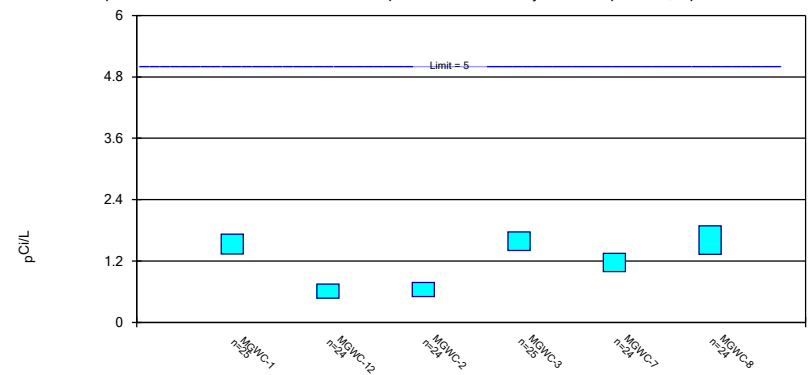
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric Confidence Interval

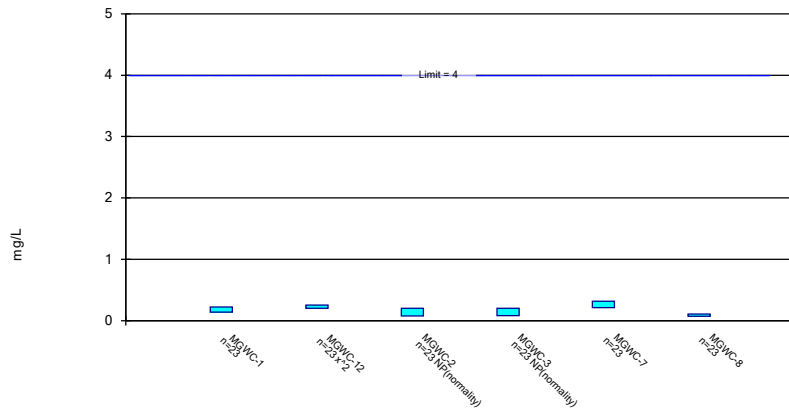
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

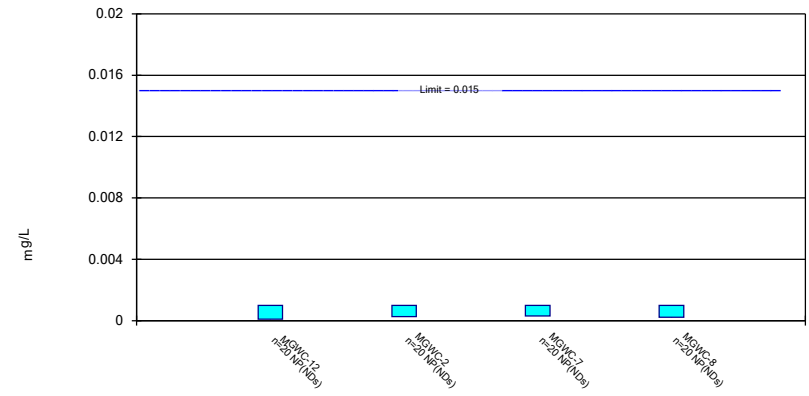
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

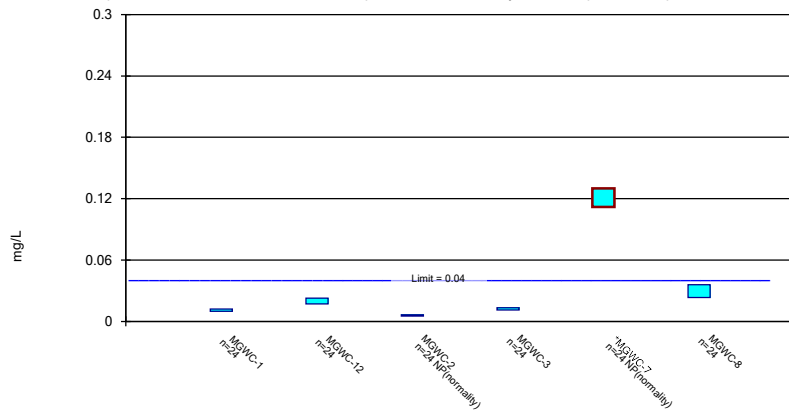
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Parametric and Non-Parametric (NP) Confidence Interval

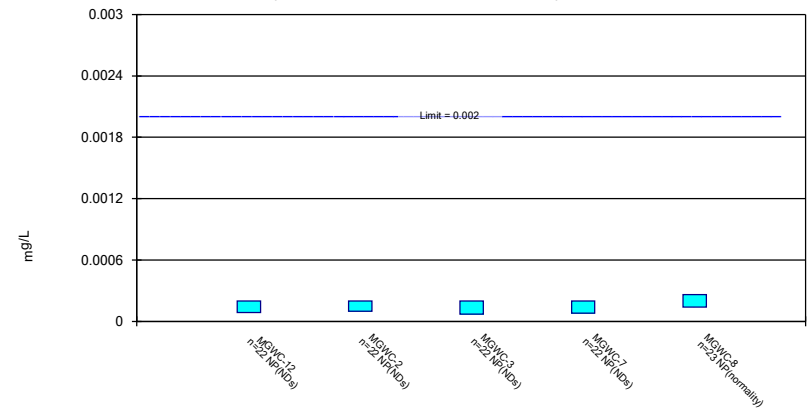
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

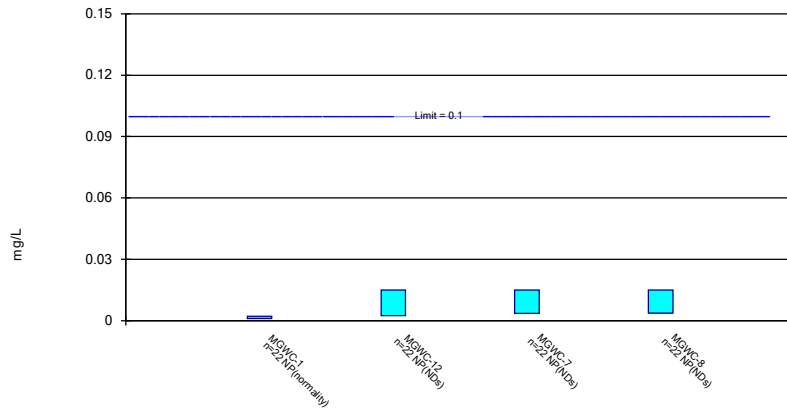
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 3/15/2024 2:59 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

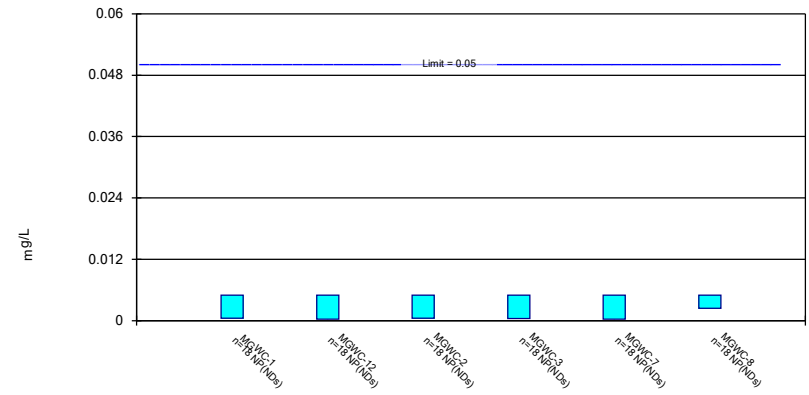
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 3/15/2024 2:59 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

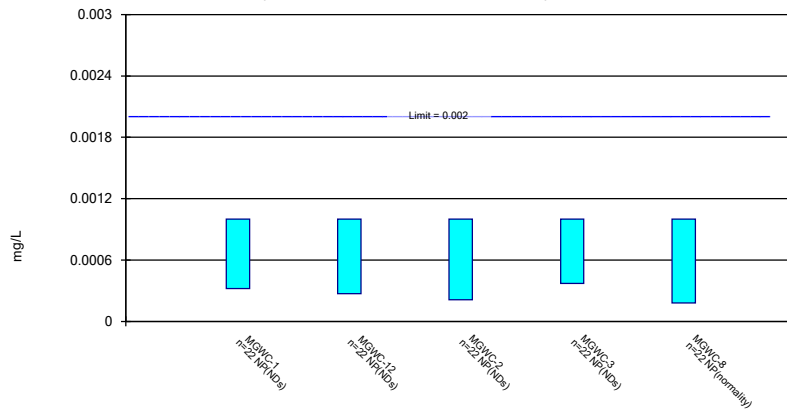
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 3/15/2024 2:59 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-3	MGWC-7
5/5/2016			0.00197 (J)
5/6/2016		<0.002	
6/21/2016	0.0004 (J)	0.0003 (J)	<0.002
8/15/2016			<0.002
8/16/2016	<0.002	<0.002	
9/28/2016			<0.002
9/29/2016	<0.002	<0.002	
11/16/2016	<0.002	<0.002	<0.002
1/17/2017		<0.002	<0.002
1/18/2017	<0.002		
3/2/2017	<0.002	<0.002	<0.002
4/18/2017		<0.002	<0.002
4/25/2017	<0.002		
7/13/2017	<0.002		
3/29/2018	<0.002		<0.002
3/30/2018		<0.002	
1/29/2019	<0.002	<0.002	<0.002
1/28/2020	<0.002		<0.002
1/29/2020		<0.002	
3/10/2020	<0.002	<0.002	<0.002
9/16/2020	<0.002		
9/17/2020		<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002
8/24/2021		<0.002	
8/25/2021	<0.002		<0.002
2/22/2022	<0.002		
2/23/2022		<0.002	<0.002
8/2/2022	0.0015 (J)		
8/3/2022		<0.002	<0.002
2/7/2023	<0.002	<0.002	
2/8/2023			0.00051 (J)
8/1/2023		<0.002	
8/2/2023	<0.002		<0.002
2/6/2024			<0.002
2/7/2024	<0.002	<0.002	
Mean	0.001895	0.001915	0.001924
Std. Dev.	0.0003692	0.0003801	0.0003329
Upper Lim.	0.002	0.002	0.002
Lower Lim.	0.0015	0.0003	0.00197

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.00143 (J)	<0.001
5/6/2016	0.00299 (J)		<0.001	0.00154 (J)		
6/21/2016	0.0047 (J)	0.0015 (J)	<0.001	0.0016 (J)	0.0009 (J)	<0.001
8/15/2016					0.0012 (J)	<0.001
8/16/2016	0.003	0.00082 (J)	<0.001	0.0017		
9/28/2016	0.0036				0.00084 (J)	<0.001
9/29/2016		0.0019	<0.001	0.0013		
11/16/2016	0.003	0.0017	0.00068 (J)	0.0014	<0.001	<0.001
1/17/2017				0.00056 (J)	<0.001	<0.001
1/18/2017		0.00096 (J)	<0.001			
1/19/2017	0.0024					
3/2/2017	0.0027	0.00082 (J)	0.00065 (J)	0.0018	0.0009 (J)	<0.001
4/18/2017	0.0024			0.0018	0.0005 (J)	0.00059 (J)
4/19/2017			<0.001			
4/25/2017		<0.001				
7/13/2017		0.00047 (J)				
3/29/2018	0.0023	0.00053 (J)			0.00066 (J)	
3/30/2018			<0.001	0.0017		<0.001
6/12/2018		0.00063 (J)				
6/13/2018	0.0021		<0.001	0.0015	<0.001	<0.001
10/10/2018	0.0024	0.00098 (J)	<0.001	0.0016	<0.001	<0.001
1/29/2019	0.00255	<0.001	<0.001	0.00143	<0.001	<0.001
3/26/2019	0.002	0.00079 (J)	<0.001	0.0012 (J)	<0.001	<0.001
9/10/2019	0.0018	0.0011	0.00036 (J)	0.0017	0.00074 (J)	0.00056 (J)
1/28/2020		0.00051 (J)			0.00046 (J)	
1/29/2020	0.0021		0.0004 (J)	0.0017		0.00047 (J)
3/10/2020	0.0019	<0.001	<0.001	<0.005	<0.001	<0.001
9/16/2020		<0.001	<0.001			
9/17/2020	0.002			0.0015	0.00045 (J)	<0.001
3/24/2021	0.0024	<0.001	<0.001	0.0018	0.00046 (J)	0.00099 (J)
8/24/2021			<0.001	0.0014		
8/25/2021	0.00092 (J)	<0.001			0.00055 (J)	<0.001
2/22/2022	0.0014	0.00089 (J)				
2/23/2022			<0.001	0.0016	0.0004 (J)	0.00044 (J)
8/2/2022		0.0015				
8/3/2022	0.0015			0.0016	0.00052 (J)	
8/4/2022			<0.001			0.00075 (J)
2/7/2023		0.00098 (J)		0.0018		
2/8/2023	0.0016		<0.001		<0.001	0.001
8/1/2023	0.0012			0.0017		0.00098 (J)
8/2/2023		<0.001	<0.001		<0.001	
2/6/2024	0.0023				0.0012	
2/7/2024		0.0012	<0.001	0.0021		0.0017
Mean	0.002303	0.001012	0.0009204	0.001605	0.0008421	0.0009367
Std. Dev.	0.0008047	0.0003519	0.0001914	0.0003447	0.0002816	0.0002479
Upper Lim.	0.002713	0.001073	0.001	0.001781	0.0007943	0.001
Lower Lim.	0.001892	0.0006865	0.00068	0.00143	0.0005196	0.00098

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.039	0.0364
5/6/2016	0.11		0.0605	0.151		
6/21/2016	0.165	0.0439	0.0613	0.174	0.0152	0.0386
8/15/2016					0.015	0.03
8/16/2016	0.094	0.041	0.052	0.13		
9/28/2016	0.1				0.014	0.034
9/29/2016		0.052	0.053	0.14		
11/16/2016	0.096	0.044	0.056	0.14	0.013	0.034
1/17/2017				0.16	0.014	0.038
1/18/2017		0.056	0.06			
1/19/2017	0.12					
3/2/2017	0.097	0.04	0.056	0.15	0.013	0.037
4/18/2017	0.092			0.14	0.011	0.04
4/19/2017			0.051			
4/25/2017		0.042				
7/13/2017		0.043				
3/29/2018	0.095	0.061			0.01	
3/30/2018			0.049	0.13		0.041
6/12/2018		0.063				
6/13/2018	0.096		0.05	0.14	0.0098	0.038
10/10/2018	0.095	0.071	0.046	0.13	0.011	0.035
1/29/2019	0.107	0.06	0.0496	0.138	<0.0025	0.0344
3/26/2019	0.096	0.06	0.048	0.13	0.0086	0.032
9/10/2019	0.11	0.073	0.053	0.15	0.012	0.035
1/28/2020		0.069			0.012	
1/29/2020	0.11		0.051	0.15		0.033
3/10/2020	0.13	0.056	0.049	0.15	0.013	0.036
9/16/2020		0.1	0.048			
9/17/2020	0.11			0.16	0.0091 (J)	0.028
3/24/2021	0.1	0.056	0.049	0.16	0.011	0.054
8/24/2021			0.047	0.16		
8/25/2021	0.11	0.051			0.013	0.031
2/22/2022	0.11	0.067				
2/23/2022			0.046	0.17	0.014	0.036
8/2/2022		0.057				
8/3/2022	0.11			0.15	0.018	
8/4/2022			0.042			0.043
2/7/2023		0.06		0.16		
2/8/2023	0.1		0.044		0.02	0.052
8/1/2023	0.1			0.16		0.056
8/2/2023		0.055	0.04		0.015	
2/6/2024	0.12				0.024	
2/7/2024		0.055	0.047	0.18		0.061
Mean	0.1072	0.05733	0.05035	0.1501	0.014	0.03889
Std. Dev.	0.01565	0.01319	0.005486	0.01417	0.006817	0.008528
Upper Lim.	0.11	0.06406	0.05315	0.1574	0.015	0.0422
Lower Lim.	0.096	0.0506	0.04755	0.1429	0.011	0.03442

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-3	MGWC-8
5/5/2016			<0.0025
5/6/2016	<0.0025	<0.0025	
6/21/2016	<0.0025	<0.0025	0.0004 (J)
8/15/2016			0.00053 (J)
8/16/2016	<0.0025	<0.0025	
9/28/2016	<0.0025		0.00049 (J)
9/29/2016		<0.0025	
11/16/2016	<0.0025	<0.0025	0.0004 (J)
1/17/2017		<0.0025	0.00084 (J)
1/19/2017	<0.0025		
3/2/2017	<0.0025	<0.0025	0.00068 (J)
4/18/2017	<0.0025	<0.0025	0.00067 (J)
3/29/2018	<0.0025		
3/30/2018		<0.0025	0.0015 (J)
6/13/2018	<0.0025	<0.0025	0.0012 (J)
10/10/2018	<0.0025	<0.0025	0.0016 (J)
1/29/2019	<0.0025	<0.0025	<0.0025
1/29/2020	0.00018 (J)	0.00031 (J)	0.0019
3/10/2020	<0.0025	<0.0025	0.0013 (J)
9/17/2020	<0.0025	<0.0025	0.0019 (J)
3/24/2021	<0.0025	<0.0025	<0.0025
8/24/2021		<0.0025	
8/25/2021	<0.0025		0.0015 (J)
2/22/2022	<0.0025		
2/23/2022		<0.0025	0.0014 (J)
8/3/2022	<0.0025	<0.0025	
8/4/2022			0.00064 (J)
2/7/2023		<0.0025	
2/8/2023	<0.0025		0.0002 (J)
8/1/2023	<0.0025	<0.0025	0.00025 (J)
2/6/2024	<0.0025		
2/7/2024		<0.0025	<0.0025
Mean	0.002395	0.0024	0.001245
Std. Dev.	0.0004946	0.0004669	0.0007933
Upper Lim.	0.0025	0.0025	0.001128
Lower Lim.	0.00018	0.00031	0.0005715

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-7	MGWC-8
5/5/2016			<0.0025	0.000784 (J)
5/6/2016	0.000126 (J)	0.00166		
6/21/2016	0.0005 (J)	0.0008 (J)	<0.0025	0.0003 (J)
8/15/2016			<0.0025	<0.0025
8/16/2016	<0.0025	0.0034		
9/28/2016	<0.0025		<0.0025	<0.0025
9/29/2016		0.0027		
11/16/2016	<0.0025	0.0022 (J)	<0.0025	<0.0025
1/17/2017			<0.0025	<0.0025
1/18/2017		0.008		
1/19/2017	<0.0025			
3/2/2017	<0.0025	0.005	<0.0025	<0.0025
4/18/2017	<0.0025		<0.0025	0.00044 (J)
4/19/2017		0.0011 (J)		
3/29/2018	<0.0025		<0.0025	
3/30/2018		0.0016 (J)		0.00058 (J)
6/13/2018	<0.0025	0.0016 (J)	<0.0025	0.00076 (J)
10/10/2018	<0.0025	0.001 (J)	<0.0025	0.00035 (J)
1/29/2019	<0.0025	0.00315	<0.0025	<0.0025
3/26/2019	<0.0025	0.0019 (J)	<0.0025	0.0005 (J)
9/10/2019	0.00017 (J)	0.0011	<0.0025	0.00079 (J)
1/28/2020			<0.0025	
1/29/2020	<0.0025	0.0054		0.0009 (J)
3/10/2020	<0.0025	0.0011 (J)	<0.0025	0.0011 (J)
9/16/2020		0.00053 (J)		
9/17/2020	<0.0025		0.00023 (J)	0.00072 (J)
3/24/2021	<0.0025	0.0022 (J)	<0.0025	0.001 (J)
8/24/2021		0.00054 (J)		
8/25/2021	<0.0025		<0.0025	0.0046
2/22/2022	<0.0025			
2/23/2022		0.0039	<0.0025	0.0014 (J)
8/3/2022	8.5E-05 (J)		0.00041 (J)	
8/4/2022		0.0002 (J)		0.0037
2/8/2023	0.00012 (J)	0.0021 (J)	<0.0025	0.0018 (J)
8/1/2023	<0.0025			0.002 (J)
8/2/2023		0.00032 (J)	0.00031 (J)	
2/6/2024	<0.0025		<0.0025	
2/7/2024		0.00034 (J)		0.0034
Mean	0.002021	0.00216	0.002227	0.001672
Std. Dev.	0.0009567	0.001886	0.0007381	0.001186
Upper Lim.	0.0025	0.002734	0.0025	0.001836
Lower Lim.	0.0005	0.001084	0.00041	0.0007055

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					<0.002	<0.002
5/6/2016	<0.002		<0.002	<0.002		
6/21/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/15/2016					<0.002	<0.002
8/16/2016	<0.002	<0.002	<0.002	<0.002		
9/28/2016	<0.002				<0.002	<0.002
9/29/2016		<0.002	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/17/2017				<0.002	<0.002	<0.002
1/18/2017		<0.002	<0.002			
1/19/2017	<0.002					
3/2/2017	0.0036	0.0032	0.0033	0.003	0.0034	0.0031
4/18/2017	<0.002			<0.002	<0.002	<0.002
4/19/2017			<0.002			
4/25/2017		<0.002				
7/13/2017		<0.002				
3/29/2018	<0.002	<0.002			<0.002	
3/30/2018			<0.002	<0.002		<0.002
6/12/2018		<0.002				
6/13/2018	<0.002		<0.002	<0.002	<0.002	<0.002
10/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020		<0.002			0.0015 (J)	
1/29/2020	<0.002		<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020		0.029	<0.002			
9/17/2020	<0.002			<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/24/2021			<0.002	<0.002		
8/25/2021	<0.002	<0.002			<0.002	<0.002
2/22/2022	<0.002	<0.002				
2/23/2022			<0.002	<0.002	<0.002	<0.002
8/2/2022		<0.002				
8/3/2022	<0.002			<0.002	<0.002	
8/4/2022			<0.002			<0.002
2/7/2023		0.0012 (J)		<0.002		
2/8/2023	0.0014 (J)		<0.002		0.0013 (J)	0.0013 (J)
8/1/2023	<0.002			<0.002		<0.002
8/2/2023		<0.002	<0.002		<0.002	
2/6/2024	<0.002				<0.002	
2/7/2024		<0.002	<0.002	<0.002		<0.002
Mean	0.002045	0.003245	0.002059	0.002045	0.002009	0.002018
Std. Dev.	0.00037	0.005761	0.0002772	0.0002132	0.0003584	0.0002839
Upper Lim.	0.0036	0.0032	0.0033	0.003	0.0034	0.0031
Lower Lim.	0.0014	0.0012	0.002	0.002	0.0015	0.0013

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.0036 (J)	0.00359 (J)
5/6/2016	<0.0025		0.00311 (J)	<0.0025		
6/21/2016	0.0012 (J)	<0.0025	0.0031 (J)	0.0006 (J)	0.0097 (J)	0.0033 (J)
8/15/2016					0.0098	0.0038
8/16/2016	0.00047 (J)	<0.0025	0.0034	0.00064 (J)		
9/28/2016	0.00058 (J)				0.0095	0.0043
9/29/2016		<0.0025	0.0032	0.00054 (J)		
11/16/2016	<0.0025	<0.0025	0.0032	0.00041 (J)	0.0094	0.004
1/17/2017				0.00051 (J)	0.0099	0.0051
1/18/2017		<0.0025	0.0032			
1/19/2017	0.0004 (J)					
3/2/2017	<0.0025	<0.0025	0.0042	0.00064 (J)	0.013	0.0064
4/18/2017	<0.0025			0.00057 (J)	0.0086	0.005
4/19/2017			0.0035			
4/25/2017		<0.0025				
7/13/2017		<0.0025				
3/29/2018	<0.0025	<0.0025			0.0088	
3/30/2018			0.0037	0.00068 (J)		0.015
6/12/2018		<0.0025				
6/13/2018	<0.0025		0.0035	0.00048 (J)	0.0093	0.014
10/10/2018	<0.0025	<0.0025	0.0034	0.00063 (J)	0.012	0.018
1/29/2019	<0.0025	<0.0025	0.00293	<0.0025	0.0103	0.0159
3/26/2019	<0.0025	<0.0025	0.003	<0.0025	0.009	0.02
9/10/2019	0.00032 (J)	0.00016 (J)	0.0027	0.00065	0.011	0.019
1/28/2020		<0.0025			0.008	
1/29/2020	0.00027 (J)		0.003	0.00067		0.025
3/10/2020	<0.0025	<0.0025	0.0024 (J)	0.0005 (J)	0.0081	0.017
9/16/2020		0.0015 (J)	0.002 (J)			
9/17/2020	0.0002 (J)			0.00053 (J)	0.0098	0.024
3/24/2021	<0.0025	<0.0025	0.0019 (J)	0.00053 (J)	0.0063	0.002 (J)
8/24/2021			0.0018 (J)	0.00034 (J)		
8/25/2021	0.00018 (J)	<0.0025			0.0032	0.021
2/22/2022	<0.0025	<0.0025				
2/23/2022			0.0016 (J)	0.0012 (J)	0.007	0.015
8/2/2022		<0.0025				
8/3/2022	<0.0025			0.00051 (J)	0.0044	
8/4/2022			0.0013 (J)			0.0092
2/7/2023		<0.0025		0.0025		
2/8/2023	<0.0025		0.0012 (J)		0.0044	0.0019 (J)
8/1/2023	<0.0025			0.00054 (J)		0.0015 (J)
8/2/2023		<0.0025	0.0011 (J)		0.0031	
2/6/2024	0.00024 (J)				0.0037	
2/7/2024		<0.0025	0.00099 (J)	0.00065 (J)		0.0005 (J)
Mean	0.001723	0.002361	0.002643	0.0007529	0.007996	0.0106
Std. Dev.	0.001041	0.0005112	0.0009249	0.0004596	0.002881	0.00801
Upper Lim.	0.0025	0.0025	0.003115	0.00068	0.009466	0.01469
Lower Lim.	0.0004	0.0015	0.002171	0.00051	0.006526	0.006516

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.75	1.21
5/6/2016	1.07		0.633	1.41		
6/21/2016	2.01	0.292 (U)	1.19 (U)	1.71	1.01	0.895 (U)
8/15/2016					1.3	1.64
8/16/2016	1.12	0.232 (U)	0.516	1.75		
9/28/2016	1.09				1.06	2.17
9/29/2016		1.11	0.665	1.43		
11/16/2016	1.58	0.798	0.694	1.9	0.855	1.49
1/17/2017				1.9	1.59	1.75
1/18/2017		0.302 (U)	0.688			
1/19/2017	1.64					
3/2/2017	1.08	0.437	0.484	1.37	1.4	1.03
4/18/2017	1.23			1.42	0.684	1.83
4/19/2017			0.599			
4/25/2017		0.391				
7/13/2017		0.47				
3/29/2018	1.21	0.736			0.822	
3/30/2018			0.677	1.43		2.15
6/12/2018		0.438				
6/13/2018	1.09		0.272 (U)	1.27	0.716	1.51
10/10/2018	1.95	0.371	0.336	1.54	1.51	2.72
1/29/2019	1.11	0.639	0.719	1.34	1.7	1.93
3/26/2019	1	0.607	0.41 (U)	1.25	0.784	1.79
9/10/2019	1.26	0.939	0.548	1.6	0.958	1.78
1/28/2020		0.465			1.38	
1/29/2020	1.39		0.0985 (U)	1.44		1.61
3/10/2020	1.4	0.34 (U)	0.589	1.32	0.903	1.95
9/16/2020		1.09	1.11			
9/17/2020	1.79			0.666 (U)	1.28	1.56
12/8/2020	1.87			1.65		
3/24/2021	1.81	0.434 (U)	0.625	1.58	1.2	0.636
8/24/2021			0.313 (U)	1.65		
8/25/2021	2.12	0.563			0.767	2.13
2/22/2022	1.85	0.888				
2/23/2022			0.598	1.47	1.42	2.62
8/2/2022		1.08				
8/3/2022	2.2			2.56	1.11	
8/4/2022			0.632			1.24
2/7/2023		0.849		2.14		
2/8/2023	1.77		0.799		1.88	1.11
8/1/2023	1.61			2.07		0.872
8/2/2023		0.432 (U)	1.09		1.46	
2/6/2024	1.99				1.52	
2/7/2024		0.706	1.1	1.8		0.929
Mean	1.53	0.6087	0.6411	1.587	1.169	1.606
Std. Dev.	0.3866	0.2708	0.2728	0.3631	0.3477	0.5459
Upper Lim.	1.722	0.7469	0.7803	1.768	1.347	1.885
Lower Lim.	1.337	0.4705	0.5019	1.406	0.9917	1.328

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.394	0.103 (J)
5/6/2016	0.28 (J)		0.088 (J)	0.086 (J)		
6/21/2016	0.36	0.14 (J)	0.19 (J)	0.23 (J)	0.49	0.1 (J)
8/15/2016					0.44	0.11 (J)
8/16/2016	0.27	0.29	0.087 (J)	<0.2		
9/28/2016	0.26				0.4	0.1 (J)
9/29/2016		0.26	<0.2	0.082 (J)		
11/16/2016	0.24	0.25	<0.2	0.087 (J)	0.36	0.091 (J)
1/17/2017				0.086 (J)	0.2	<0.082
1/18/2017		0.26	<0.2			
1/19/2017	0.22					
3/2/2017	0.27	0.28	0.15 (J)	0.15 (J)	0.36	0.16 (J)
4/18/2017	0.2			<0.2	0.29	<0.082
4/19/2017			<0.2			
4/25/2017		0.25				
7/13/2017		0.21				
10/10/2017	0.18 (J)	0.22	<0.2	<0.2	0.28	<0.082
3/29/2018	0.16 (J)	0.23			0.23	
3/30/2018			<0.2	<0.2		0.088 (J)
6/12/2018		0.23				
6/13/2018	0.14 (J)		<0.2	<0.2	0.2	0.15 (J)
10/10/2018	0.17 (J)	0.25	0.085 (J)	<0.2	0.23	0.11 (J)
3/26/2019	0.16	0.22	0.076 (J)	0.072 (J)	0.19 (J)	0.088 (J)
9/10/2019	0.098 (J)	0.2	0.07 (J)	0.073 (J)	0.15	0.083 (J)
3/10/2020	0.086 (J)	0.15	0.05 (J)	0.058 (J)	0.18	0.084 (J)
9/16/2020		0.26	0.076 (J)			
9/17/2020	0.15			0.083 (J)	0.25	0.11
3/24/2021	0.27	0.27	0.11	0.092 (J)	0.35	0.11
8/24/2021			0.095 (J)	0.11		
8/25/2021	0.097 (J)	0.19			0.15	0.038 (J)
2/22/2022	0.047 (J)	0.093 (J)				
2/23/2022			0.075 (J)	0.086 (J)	0.22	0.05 (J)
8/2/2022		0.074 (J)				
8/3/2022	0.12			0.079 (J)	0.2	
8/4/2022			0.072 (J)			0.087 (J)
2/7/2023		0.25		0.076 (J)		
2/8/2023	0.11		0.074 (J)		0.14	0.084 (J)
8/1/2023	0.15			0.1		0.11
8/2/2023		0.25	0.087 (J)		0.2	
2/6/2024	0.12				0.17	
2/7/2024		0.29	0.081 (J)	0.089 (J)		0.063 (J)
Mean	0.1808	0.2225	0.1246	0.1234	0.2641	0.08878
Std. Dev.	0.0784	0.05854	0.05819	0.05749	0.1018	0.03248
Upper Lim.	0.2218	0.2538	0.2	0.2	0.3173	0.1058
Lower Lim.	0.1398	0.2028	0.076	0.082	0.2109	0.07179

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-7	MGWC-8
5/5/2016			<0.001	<0.001
5/6/2016		<0.001		
6/21/2016	0.0001 (J)	<0.001	0.0003 (J)	<0.001
8/15/2016			<0.001	<0.001
8/16/2016	<0.001	<0.001		
9/28/2016			<0.001	<0.001
9/29/2016	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001
1/17/2017			<0.001	<0.001
1/18/2017	<0.001	<0.001		
3/2/2017	<0.001	<0.001	<0.001	<0.001
4/18/2017			<0.001	<0.001
4/19/2017		<0.001		
4/25/2017	<0.001			
7/13/2017	<0.001			
3/29/2018	<0.001		<0.001	
3/30/2018		<0.001		<0.001
1/29/2019	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001		<0.001	
1/29/2020		<0.001		<0.001
3/10/2020	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001		
9/17/2020			<0.001	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001		
8/25/2021	<0.001		0.00019 (J)	0.00022 (J)
2/22/2022	<0.001			
2/23/2022		<0.001	<0.001	<0.001
8/2/2022	<0.001			
8/3/2022			0.00021 (J)	
8/4/2022		<0.001		<0.001
2/7/2023	<0.001			
2/8/2023		<0.001	<0.001	<0.001
8/1/2023				<0.001
8/2/2023	<0.001	<0.001	<0.001	
2/6/2024			<0.001	
2/7/2024	<0.001	0.00027 (J)		<0.001
Mean	0.000955	0.0009635	0.000885	0.000961
Std. Dev.	0.0002012	0.0001632	0.0002815	0.0001744
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.0001	0.00027	0.0003	0.00022

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.0586	0.0252 (J)
5/6/2016	0.0128 (J)		<0.05	0.0113 (J)		
6/21/2016	0.0102 (J)	0.0112 (J)	0.0047 (J)	0.0103 (J)	0.122	0.0228 (J)
8/15/2016					0.12	0.026
8/16/2016	0.012	0.014	0.0043 (J)	0.01		
9/28/2016	0.012				0.12	0.026
9/29/2016		0.017	0.0048 (J)	0.01		
11/16/2016	0.013	0.016	0.0058	0.014	0.13	0.031
1/17/2017				0.014	0.14	0.032
1/18/2017		0.015	0.0051			
1/19/2017	0.011					
3/2/2017	0.013	0.015	0.0061	0.013	0.13	0.031
4/18/2017	0.0097			0.01	0.11	0.023
4/19/2017			0.0042 (J)			
4/25/2017		0.013				
7/13/2017		0.014				
3/29/2018	0.017 (J)	0.032 (J)			0.17 (J)	
3/30/2018			0.008 (J)	0.017 (J)		0.058 (J)
6/12/2018		0.019				
6/13/2018	0.0094		0.0054	0.011	0.12	0.035
10/10/2018	0.011	0.027	0.0055	0.013	0.13	0.046
1/29/2019	0.0109	0.0172	0.00537	0.0106	0.112	0.0361
3/26/2019	0.01	0.02	0.0051	0.012	0.12	0.043
9/10/2019	0.012	0.023	0.0074	0.015	0.11	0.042
1/28/2020		0.022			0.13	
1/29/2020	0.0096		0.0059	0.012		0.037
3/10/2020	<0.025	0.018	0.0068	0.014	0.11	0.028
9/16/2020		0.025	0.0055			
9/17/2020	0.0086			0.012	0.11	0.039
3/24/2021	0.013	0.018	0.0066	0.013	0.13	0.011
8/24/2021			0.0062	0.012		
8/25/2021	0.0096	0.017			0.12	0.037
2/22/2022	0.01	0.022				
2/23/2022			0.0066	0.013	0.13	0.028
8/2/2022		0.026				
8/3/2022	0.01			0.013	0.13	
8/4/2022			0.0063			0.021
2/7/2023		0.024		0.014		
2/8/2023	0.01		0.0065		0.14	0.012
8/1/2023	0.0084			0.011		0.012
8/2/2023		0.019	0.0031 (J)		0.13	
2/6/2024	0.0084				0.12	
2/7/2024		0.03	0.0051	0.0081		0.0076
Mean	0.011	0.01977	0.006474	0.01222	0.1226	0.02957
Std. Dev.	0.001963	0.005461	0.00409	0.00196	0.01885	0.01207
Upper Lim.	0.01201	0.02255	0.0065	0.01322	0.13	0.03573
Lower Lim.	0.01	0.01698	0.0051	0.01122	0.112	0.02341

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.0002	<0.0002
5/6/2016		<0.0002	<0.0002		
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/15/2016				<0.0002	0.00015 (J)
8/16/2016	<0.0002	7.8E-05 (J)	<0.0002		
9/28/2016				<0.0002	<0.0002
9/29/2016	<0.0002	<0.0002	<0.0002		
11/16/2016	8.6E-05 (J)	0.0001 (J)	7E-05 (J)	8E-05 (J)	0.00021
1/17/2017			<0.0002	<0.0002	7.6E-05 (J)
1/18/2017	<0.0002	<0.0002			
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017			<0.0002	<0.0002	0.00018 (J)
4/19/2017		<0.0002			
4/25/2017	<0.0002				
7/13/2017	<0.0002				
3/29/2018	7.4E-05 (J)			<0.0002	
3/30/2018		<0.0002	<0.0002		0.00013 (J)
6/12/2018	<0.0002				
6/13/2018		<0.0002	<0.0002	<0.0002	0.00074
10/10/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.00013 (J)
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020	<0.0002			<0.0002	
1/29/2020		<0.0002	<0.0002		0.00012 (J)
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002			
9/17/2020			<0.0002	<0.0002	0.00014 (J)
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2021		<0.0002	<0.0002		
8/25/2021	<0.0002			<0.0002	0.0041
10/26/2021					<0.0002
2/22/2022	<0.0002				
2/23/2022		<0.0002	<0.0002	<0.0002	0.00028
8/2/2022	<0.0002				
8/3/2022			<0.0002	<0.0002	
8/4/2022		<0.0002			0.00068
2/7/2023	<0.0002		<0.0002		
2/8/2023		<0.0002		<0.0002	0.00026
8/1/2023			<0.0002		0.00014 (J)
8/2/2023	<0.0002	<0.0002		<0.0002	
2/6/2024				<0.0002	
2/7/2024	<0.0002	<0.0002	<0.0002		0.00052
Mean	0.0001891	0.0001899	0.0001941	0.0001945	0.0004111
Std. Dev.	3.536E-05	3.284E-05	2.772E-05	2.558E-05	0.0008219
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.00026
Lower Lim.	8.6E-05	0.0001	7E-05	8E-05	0.00014

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-7	MGWC-8
5/5/2016			0.00351 (J)	<0.015
5/6/2016	0.0021 (J)			
6/21/2016	0.002 (J)	0.002 (J)	<0.015	<0.015
8/15/2016			<0.015	<0.015
8/16/2016	0.0019 (J)	0.0012 (J)		
9/28/2016	0.0018 (J)		<0.015	<0.015
9/29/2016		0.0014 (J)		
11/16/2016	<0.075	<0.015	<0.015	<0.015
1/17/2017			<0.015	<0.015
1/18/2017		<0.015		
1/19/2017	0.0011 (J)			
3/2/2017	0.0012 (J)	<0.015	<0.015	<0.015
4/18/2017	0.0013 (J)		<0.015	0.0037 (J)
4/25/2017		<0.015		
7/13/2017		<0.015		
3/29/2018	0.0017 (J)	<0.015	<0.015	
3/30/2018				<0.015
6/12/2018		<0.015		
6/13/2018	0.00087 (J)		<0.015	<0.015
10/10/2018	<0.075	<0.015	<0.015	<0.015
1/29/2019	<0.075	<0.015	<0.015	<0.015
1/28/2020		<0.015	<0.015	
1/29/2020	0.0015 (J)			<0.015
3/10/2020	<0.075	<0.015	<0.015	<0.015
9/16/2020		0.0024 (J)		
9/17/2020	0.0012 (J)		<0.015	<0.015
3/24/2021	0.0029 (J)	<0.015	<0.015	<0.015
8/25/2021	0.00088 (J)	<0.015	<0.015	<0.015
2/22/2022	0.0014 (J)	0.00064 (J)		
2/23/2022			<0.015	<0.015
8/2/2022		0.00093 (J)		
8/3/2022	0.0011 (J)		<0.015	
8/4/2022				<0.015
2/7/2023		<0.015		
2/8/2023	0.0012 (J)		<0.015	<0.015
8/1/2023	0.0012 (J)			<0.015
8/2/2023		<0.015	<0.015	
2/6/2024	0.00099 (J)		<0.015	
2/7/2024		<0.015		<0.015
Mean	0.01483	0.0113	0.01448	0.01449
Std. Dev.	0.02903	0.006195	0.00245	0.002409
Upper Lim.	0.0021	0.015	0.015	0.015
Lower Lim.	0.0011	0.0024	0.00351	0.0037

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					<0.005	<0.005
5/6/2016	<0.005		<0.005	<0.005		
6/21/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/15/2016					<0.005	0.00033 (J)
8/16/2016	<0.005	<0.005	<0.005	<0.005		
9/28/2016	<0.005				<0.005	0.00038 (J)
9/29/2016		<0.005	<0.005	<0.005		
11/16/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/17/2017				<0.005	<0.005	<0.005
1/18/2017		<0.005	<0.005			
1/19/2017	<0.005					
3/2/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/18/2017	<0.005			<0.005	<0.005	0.0024
4/19/2017			<0.005			
4/25/2017		<0.005				
7/13/2017		<0.005				
3/29/2018	0.0005 (J)	0.00027 (J)			0.00026 (J)	
3/30/2018			0.00045 (J)	0.00044 (J)		0.00027 (J)
6/12/2018		<0.005				
6/13/2018	<0.005		<0.005	<0.005	<0.005	<0.005
10/10/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/29/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/28/2020		<0.005			<0.005	
1/29/2020	<0.005		<0.005	<0.005		<0.005
2/22/2022	<0.005	<0.005				
2/23/2022			<0.005	<0.005	<0.005	<0.005
8/2/2022		<0.005				
8/3/2022	<0.005			<0.005	<0.005	
8/4/2022			<0.005			<0.005
2/7/2023		<0.005		<0.005		
2/8/2023	<0.005		<0.005		<0.005	<0.005
8/1/2023	<0.005			<0.005		<0.005
8/2/2023		<0.005	<0.005		<0.005	
2/6/2024	<0.005				<0.005	
2/7/2024		<0.005	<0.005	<0.005		<0.005
Mean	0.00475	0.004737	0.004747	0.004747	0.004737	0.004077
Std. Dev.	0.001061	0.001115	0.001072	0.001075	0.001117	0.00183
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.00027	0.00045	0.00044	0.00026	0.0024

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/15/2024 3:01 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-8
5/5/2016					<0.001
5/6/2016	<0.001		<0.001	<0.001	
6/21/2016	9E-05 (J)	<0.001	<0.001	<0.001	0.0001 (J)
8/15/2016					0.00016 (J)
8/16/2016	<0.001	<0.001	<0.001	<0.001	
9/28/2016	<0.001				0.00014 (J)
9/29/2016		<0.001	<0.001	<0.001	
11/16/2016	<0.001	<0.001	<0.001	<0.001	9E-05 (J)
1/17/2017				<0.001	0.00016 (J)
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
3/2/2017	<0.001	<0.001	<0.001	<0.001	0.00018 (J)
4/18/2017	9.5E-05 (J)			<0.001	0.00019 (J)
4/19/2017			<0.001		
4/25/2017		<0.001			
7/13/2017		<0.001			
3/29/2018	0.00014 (J)	<0.001			
3/30/2018			<0.001	<0.001	0.00027 (J)
6/12/2018		<0.001			
6/13/2018	<0.001		<0.001	<0.001	0.00027 (J)
10/10/2018	<0.001	<0.001	<0.001	<0.001	0.00025 (J)
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020		<0.001			
1/29/2020	0.00032 (J)		0.00021 (J)	0.00037 (J)	0.00042 (J)
3/10/2020	<0.001	0.00015 (J)	<0.001	0.00016 (J)	0.00025 (J)
9/16/2020		0.00027 (J)	<0.001		
9/17/2020	0.00016 (J)			<0.001	0.00031 (J)
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021			<0.001	<0.001	
8/25/2021	<0.001	<0.001			0.0004 (J)
2/22/2022	<0.001	<0.001			
2/23/2022			<0.001	<0.001	<0.001
8/2/2022		<0.001			
8/3/2022	<0.001			<0.001	
8/4/2022			<0.001		<0.001
2/7/2023		<0.001		<0.001	
2/8/2023	<0.001		<0.001		<0.001
8/1/2023	<0.001			<0.001	<0.001
8/2/2023		<0.001	<0.001		
2/6/2024	<0.001				
2/7/2024		<0.001	<0.001	<0.001	<0.001
Mean	0.0008093	0.0009282	0.0009641	0.0009332	0.0005086
Std. Dev.	0.0003622	0.0002332	0.0001684	0.0002187	0.0003885
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00032	0.00027	0.00021	0.00037	0.00018

FIGURE I.

Appendix IV Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/15/2024, 3:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	MGWC-7	-0.0007522	-118	-81	Yes	24	0	n/a	n/a	0.05	NP

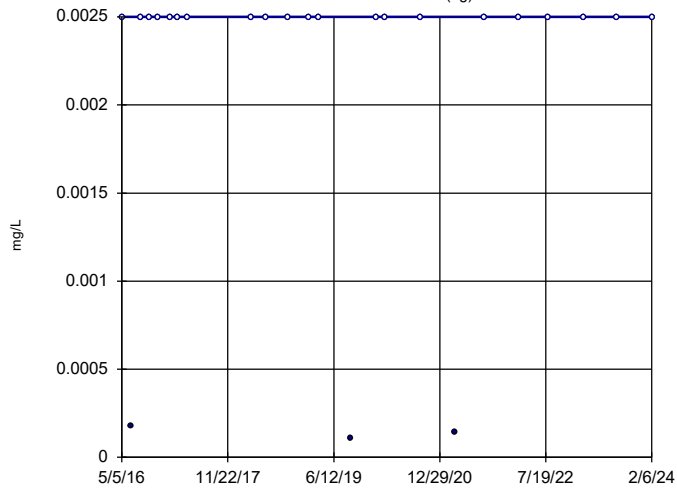
Appendix IV Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/15/2024, 3:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	MGWA-10 (bg)	0	6	81	No	24	87.5	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-11 (bg)	0	23	81	No	24	95.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-5 (bg)	0	20	76	No	23	95.65	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-6 (bg)	0	-8	-81	No	24	45.83	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWA-6A (bg)	0.00003846	10	34	No	13	15.38	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWC-7	-0.0007522	-118	-81	Yes	24	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MGWC-8	0.0016	43	81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-10 (bg)	0.000008951	5	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-11 (bg)	0.0011	73	81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-5 (bg)	0.0000504	20	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	27	81	No	24	91.67	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWA-6A (bg)	0	-32	-34	No	13	69.23	n/a	n/a	0.05	NP
Lithium (mg/L)	MGWC-7	0	30	81	No	24	0	n/a	n/a	0.05	NP

Sen's Slope Estimator

MGWA-10 (bg)

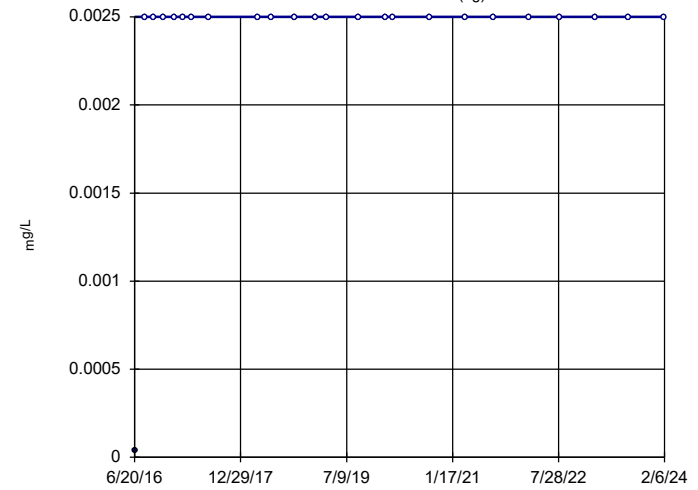


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = 6
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-11 (bg)

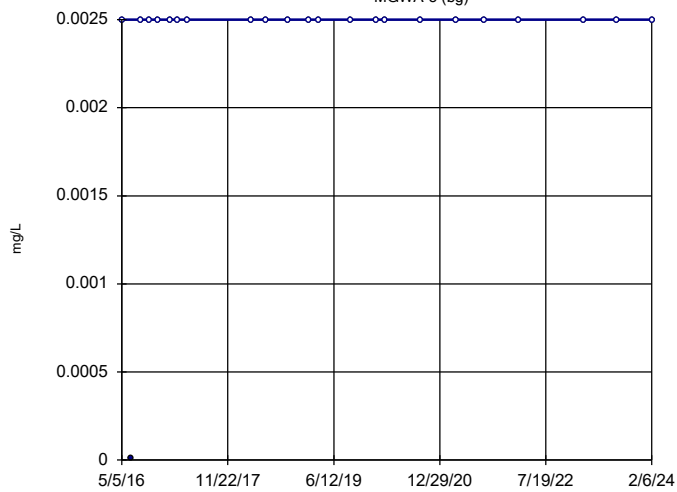


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = 23
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-5 (bg)

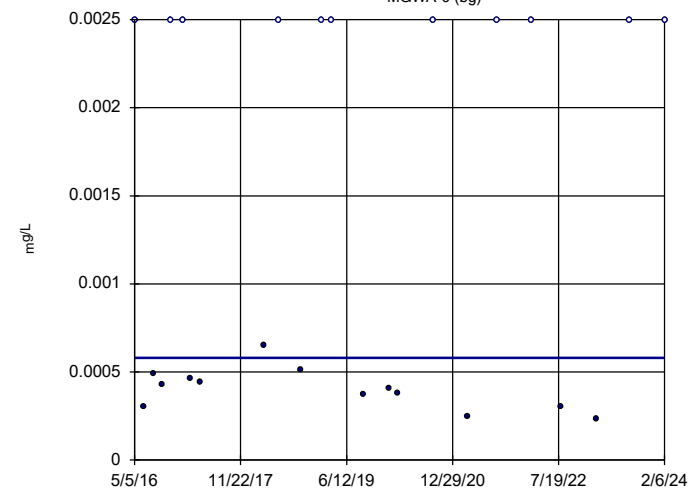


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 20
critical = 76
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-6 (bg)

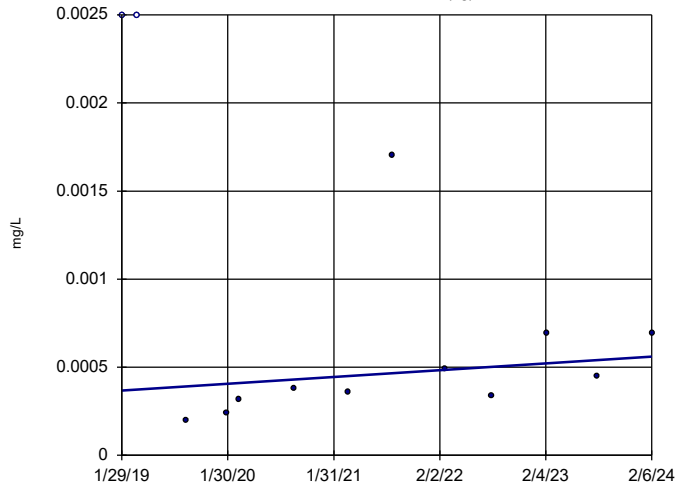


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = -8
critical = -81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-6A (bg)

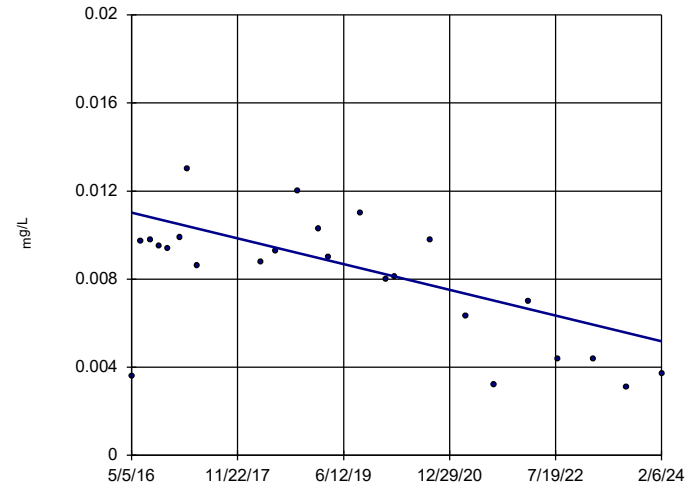


n = 13
Slope = 0.00003846
units per year.
Mann-Kendall
statistic = 10
critical = 34
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWC-7

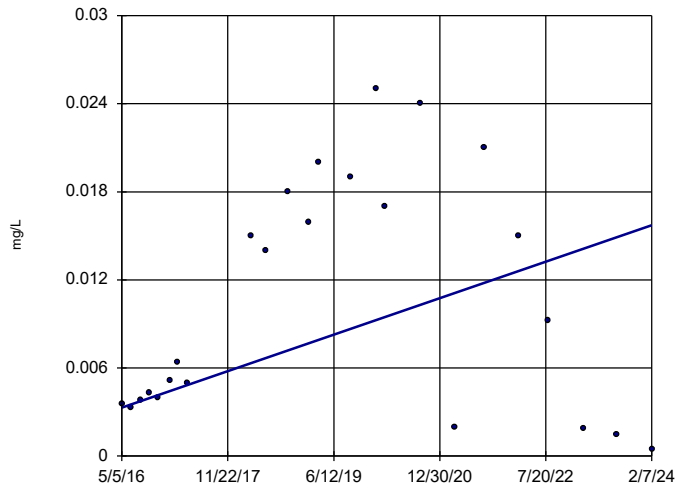


n = 24
Slope = -0.0007522
units per year.
Mann-Kendall
statistic = -118
critical = -81
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWC-8

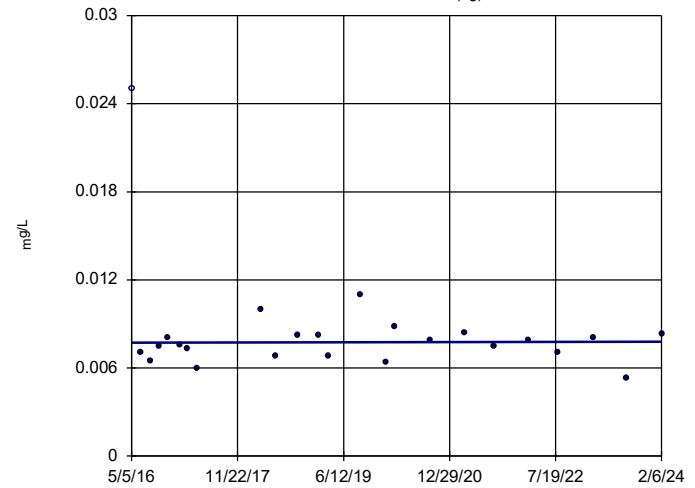


n = 24
Slope = 0.0016
units per year.
Mann-Kendall
statistic = 43
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Cobalt Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-10 (bg)

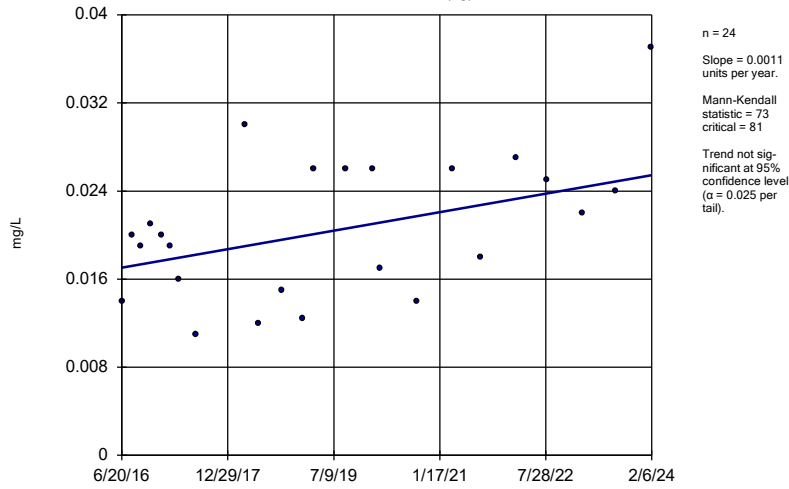


n = 24
Slope = 0.000008951
units per year.
Mann-Kendall
statistic = 5
critical = 81
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sen's Slope Estimator

MGWA-11 (bg)

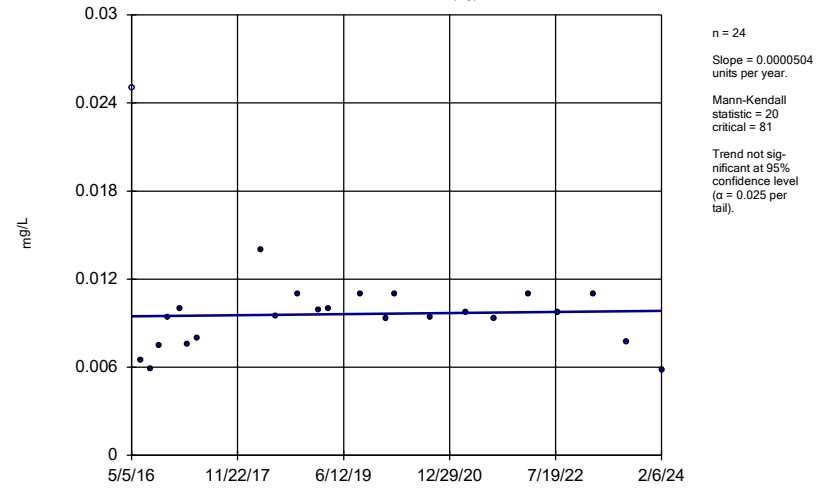


Constituent: Lithium Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-5 (bg)

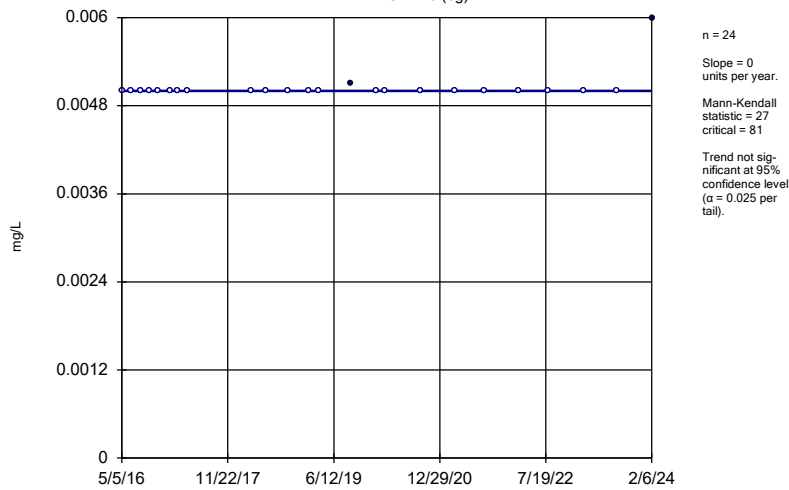


Constituent: Lithium Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6 (bg)

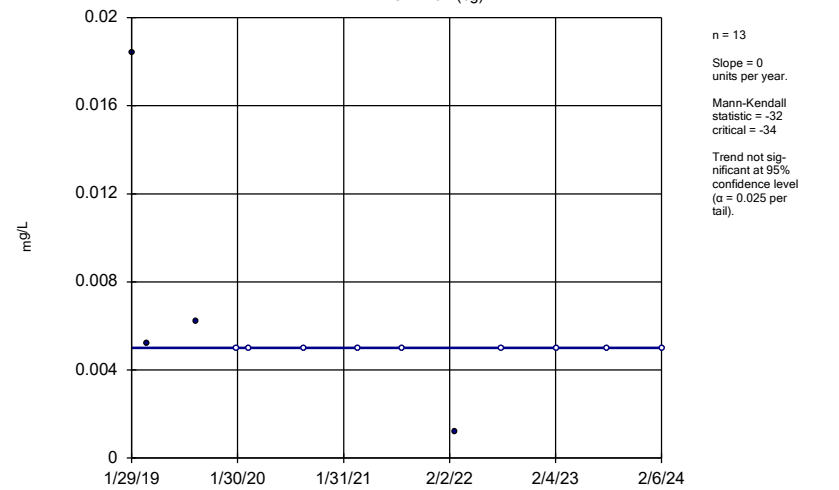


Constituent: Lithium Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6A (bg)

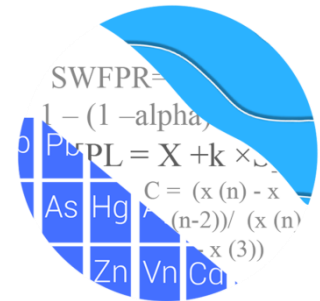


Constituent: Lithium Analysis Run 3/15/2024 3:04 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

APPENDIX B

*Statistical Analysis Reports
August 2024 Monitoring Event*

GROUNDWATER STATS CONSULTING



January 31, 2025

Southern Company Services
Attn: Mr. Trey Singleton
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant McIntosh Ash Pond 1 (AP-1)
Statistical Analysis August 2024

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant McIntosh AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

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

- **Upgradient well:** MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
- **Downgradient wells:** MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12
- **Assessment wells:** MGWC-19 and MGWC-20

Note that assessment wells MGWC-19 and MGWC-20 were previously designated as piezometers. All Appendix III constituents and cobalt, fluoride, and lithium among Appendix IV constituents have been sampled. Data from assessment wells are plotted on time series and box plots, and Appendix IV parameters are evaluated with confidence intervals for assessment wells when a minimum of 4 samples have been collected.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated 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 were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Both intrawell and interwell prediction limits, combined with a 1-of-2 resample plan, were originally recommended. 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. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for

non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

Statistical Analysis of Appendix III Parameters – August 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. When values in background have been flagged as outliers, the measurements may be seen in a lighter font and as a disconnected symbol on the time series graphs. Previously flagged measurements were confirmed and no additional values were flagged as outliers during this analysis. A summary of flagged values follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant

increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Calcium: MGWC-1 and MGWC-8
- Chloride: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Sulfate: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-1, MGWC-2, and MGWC-8

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). 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, which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing

- Boron: MGWC-1, MGWC-7 and MGWC-8
- Calcium: MGWC-8
- Chloride: MGWC-8
- Sulfate: MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-8

Decreasing

- Boron: MGWA-6 (upgradient) and MGWC-2
- Calcium: MGWA-10 (upgradient)
- Chloride: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-6A (upgradient), MGWC-2, and MGWC-7
- Sulfate: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-10 (upgradient), and MGWC-2
- TDS: MGWC-2

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Analysis of Appendix IV Parameters – August 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

During previous analyses, high concentrations from May 2016 through April 2017 for arsenic at upgradient well MGWA-6 were deselected prior to calculating an interwell upper tolerance limit. These historical measurements were considerably higher than more recent measurements; and this step results in a more conservative (i.e., lower) statistical limit from a regulatory perspective. All background data will be re-evaluated for upgradient wells during the next analysis. A summary of these background data ranges follows this letter. No additional values were flagged as outliers during this analysis and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through the current sample event for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well with at least 8 samples and in each assessment well with at least 4 samples using all available data through August 2024 (Figure H).

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the largest and smallest order statistics depending on the sample size as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Note that due to a statistically significant decreasing trend for cobalt at downgradient well MGWC-7 and the majority of more recent data were reported below the GWPS, only the most recent 8 observations were used to construct a confidence interval on stable, non-trending data (USEPA Unified Guidance, 2009, Chapter 7). Summaries of the confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

- Lithium: MGWC-7

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter and a statistically significant trend was identified for the following well/constituent pair:

Increasing

- None

Decreasing

- Lithium: MGWA-6A (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant McIntosh AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

Date Ranges

Date: 9/27/2024 4:47 PM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Arsenic (mg/L)

MGWA-6 overall:3/29/2018-8/13/2024

Cobalt (mg/L)

MGWC-7 overall:3/24/2021-8/14/2024

Appendix III Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	8/13/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	8/14/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	8/14/2024	0.42	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	8/14/2024	2.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	8/14/2024	5.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	8/13/2024	120	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	8/14/2024	130	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	8/13/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	8/14/2024	12	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-7	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	8/14/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.18	n/a	8/13/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.18	n/a	8/14/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.18	n/a	8/14/2024	80	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.18	n/a	8/14/2024	200	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.18	n/a	8/14/2024	230	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	8/13/2024	420	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	8/14/2024	450	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	8/14/2024	580	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	8/13/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-12	0.18	n/a	8/14/2024	0.029J	No	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	8/14/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	8/14/2024	0.42	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	8/14/2024	2.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	8/14/2024	5.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	8/13/2024	120	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-12	110	n/a	8/14/2024	28	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-2	110	n/a	8/14/2024	110	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	8/14/2024	110	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	8/14/2024	60	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	8/14/2024	130	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	8/13/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-12	10	n/a	8/14/2024	5.5	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	8/14/2024	12	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-7	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	8/14/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	8/13/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	8/14/2024	0.12	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
pH (SU)	MGWC-1	8.12	5	8/13/2024	7.14	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-12	8.12	5	8/14/2024	7.37	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-2	8.12	5	8/14/2024	7.73	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-3	8.12	5	8/14/2024	7.14	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-7	8.12	5	8/14/2024	7.5	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-8	8.12	5	8/14/2024	7.81	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.18	n/a	8/13/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-12	16.18	n/a	8/14/2024	8.9	No	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.18	n/a	8/14/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.18	n/a	8/14/2024	80	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.18	n/a	8/14/2024	200	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.18	n/a	8/14/2024	230	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	8/13/2024	420	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-12	360	n/a	8/14/2024	190	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	8/14/2024	450	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	8/14/2024	360	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	8/14/2024	350	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	8/14/2024	580	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.01684	-185	-98	Yes	23	17.39	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1021	107	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.234	-195	-98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1264	196	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.4957	132	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3456	-138	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.25	203	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.1409	-139	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.01	-212	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2462	-51	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.197	-207	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4075	-146	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.415	145	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-136	-98	Yes	23	34.78	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.5397	-175	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.355	-191	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-19.67	-220	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.24	101	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.244	130	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.44	103	98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.98	-186	-98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	49.72	123	98	Yes	23	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-10 (bg)	0	60	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	-13	-98	No	23	52.17	n/a	0.01	NP
Boron (mg/L)	MGWA-5 (bg)	0	-29	-98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	MGWA-6 (bg)	-0.01684	-185	-98	Yes	23	17.39	n/a	0.01	NP
Boron (mg/L)	MGWA-6A (bg)	0	-16	-43	No	13	53.85	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1021	107	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.234	-195	-98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.09431	-90	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1264	196	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.4957	132	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3456	-138	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-11 (bg)	0.2582	40	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-5 (bg)	-0.1601	-48	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	61	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	2.925	42	43	No	13	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-1	2.417	95	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.25	203	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-10 (bg)	0.01876	36	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.03453	-31	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.1409	-139	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.01	-212	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2462	-51	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	-0.06926	-93	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.197	-207	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-3	0	-22	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4075	-146	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.415	145	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-136	-98	Yes	23	34.78	n/a	0.01	NP
Sulfate (mg/L)	MGWA-11 (bg)	0.0526	44	98	No	23	26.09	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.5397	-175	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.355	-191	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6A (bg)	0.2718	18	43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.604	59	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-19.67	-220	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.24	101	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.244	130	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.44	103	98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-1.53	-33	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	4.069	59	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-5 (bg)	0	14	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-1.302	-38	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	5	43	No	13	0	n/a	0.01	NP
TDS (mg/L)	MGWC-1	8.19	68	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.98	-186	-98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	49.72	123	98	Yes	23	0	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:23 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.002	96	n/a	n/a	92.71	n/a	n/a	0.007269	NP Inter(NDs)
Arsenic (mg/L)	0.014	106	n/a	n/a	34.91	n/a	n/a	0.004352	NP Inter(normality)
Barium (mg/L)	0.13	114	n/a	n/a	0	n/a	n/a	0.002887	NP Inter(normality)
Beryllium (mg/L)	0.0025	104	n/a	n/a	95.19	n/a	n/a	0.004822	NP Inter(NDs)
Cadmium (mg/L)	0.0025	114	n/a	n/a	99.12	n/a	n/a	0.002887	NP Inter(NDs)
Chromium (mg/L)	0.0066	104	n/a	n/a	73.08	n/a	n/a	0.004822	NP Inter(NDs)
Cobalt (mg/L)	0.0025	113	n/a	n/a	72.57	n/a	n/a	0.003039	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.235	115	0.6107	0.3277	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	109	n/a	n/a	32.11	n/a	n/a	0.003731	NP Inter(normality)
Lead (mg/L)	0.001	96	n/a	n/a	94.79	n/a	n/a	0.007269	NP Inter(NDs)
Lithium (mg/L)	0.037	114	n/a	n/a	29.82	n/a	n/a	0.002887	NP Inter(normality)
Mercury (mg/L)	0.0002	104	n/a	n/a	97.12	n/a	n/a	0.004822	NP Inter(NDs)
Molybdenum (mg/L)	0.015	104	n/a	n/a	64.42	n/a	n/a	0.004822	NP Inter(NDs)
Selenium (mg/L)	0.005	84	n/a	n/a	92.86	n/a	n/a	0.01345	NP Inter(NDs)
Thallium (mg/L)	0.001	104	n/a	n/a	85.58	n/a	n/a	0.004822	NP Inter(NDs)

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.24	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

Confidence Intervals Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWC-7	0.1341	0.1167	0.04	Yes 26	0.1243	0.01913	0	None	x^2	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No 21	0.0019	0.0003606	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.0003	0.006	No 21	0.001919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No 21	0.001928	0.0003249	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002678	0.001887	0.014	No 25	0.002282	0.0007941	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-12	0.001059	0.0006862	0.014	No 25	0.001011	0.0003445	32	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No 25	0.0009236	0.000188	84	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001808	0.001451	0.014	No 25	0.001629	0.0003578	4	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.0007857	0.000521	0.014	No 25	0.0008484	0.0002775	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-8	0.001	0.00099	0.014	No 25	0.0009752	0.0003098	60	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	MGWC-1	0.11	0.096	2	No 25	0.1073	0.01533	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06346	0.05045	2	No 25	0.05696	0.01304	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-2	0.05287	0.04741	2	No 25	0.05014	0.005476	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.157	0.1432	2	No 25	0.1501	0.01388	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.0152	0.011	2	No 25	0.0142	0.006748	4	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-8	0.04345	0.03485	2	No 25	0.0399	0.009743	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No 23	0.002399	0.0004838	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No 23	0.002405	0.0004566	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.00112	0.0005787	0.004	No 23	0.0013	0.000818	21.74	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No 25	0.00204	0.0009415	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002636	0.001059	0.005	No 25	0.002101	0.00187	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No 25	0.002143	0.0008365	84	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.001947	0.0007148	0.005	No 25	0.001945	0.001793	24	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0036	0.0014	0.1	No 23	0.002043	0.0003616	91.3	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No 23	0.003191	0.005634	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0033	0.002	0.1	No 23	0.002057	0.0002711	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No 23	0.002043	0.0002085	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No 23	0.002009	0.0003502	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No 23	0.002017	0.0002774	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.00047	0.006	No 26	0.001783	0.001021	65.38	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No 26	0.002372	0.0004918	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.003059	0.00212	0.006	No 26	0.00259	0.0009635	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00067	0.00051	0.006	No 26	0.0007319	0.0004479	11.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.006104	0.002246	0.006	No 8	0.004175	0.00182	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01318	0.005218	0.006	No 26	0.01058	0.00816	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.747	1.359	5	No 26	1.553	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.731	0.4562	5	No 25	0.5936	0.2757	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7639	0.4571	5	No 25	0.6105	0.3077	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.748	1.391	5	No 26	1.569	0.3664	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.335	0.9957	5	No 25	1.166	0.3409	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.851	1.285	5	No 25	1.568	0.5681	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2235	0.1439	4	No 24	0.1837	0.07797	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-12	0.251	0.1984	4	No 24	0.2182	0.06096	0	None	x^2	0.01	Param.
Fluoride (mg/L)	MGWC-2	0.09927	0.07246	4	No 24	0.09442	0.02773	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	MGWC-3	0.1	0.082	4	No 24	0.09746	0.0331	29.17	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3106	0.1997	4	No 24	0.2552	0.1087	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.0983	0.06631	4	No 24	0.09663	0.02587	16.67	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No 21	0.0009571	0.0001964	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No 21	0.0009652	0.0001593	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No 21	0.0008905	0.0002755	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No 21	0.0009629	0.0001702	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	MGWC-1	0.01189	0.01004	0.04	No 26	0.01097	0.001893	3.846	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02272	0.01746	0.04	No 26	0.02009	0.005393	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0066	0.0051	0.04	No 26	0.00648	0.003923	3.846	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01327	0.01136	0.04	No 26	0.01232	0.001959	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.1341	0.1167	0.04	Yes 26	0.1243	0.01913	0	None	x^2	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-8	0.03541	0.02303	0.04	No 26	0.02922	0.01271	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-20	0.01417	0	0.04	No 4	0.00645	0.003399	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No 23	0.0001896	0.00003462	91.3	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No 23	0.0001903	0.00003215	91.3	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No 23	0.0001943	0.00002711	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No 23	0.0001948	0.00002502	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00028	0.00015	0.002	No 24	0.0004152	0.0008041	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-1	0.0021	0.0011	0.1	No 23	0.01424	0.02851	17.39	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No 23	0.01146	0.006102	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No 23	0.0145	0.002396	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No 23	0.01451	0.002356	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No 19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No 19	0.004751	0.001085	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No 19	0.004761	0.001044	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No 19	0.00476	0.001046	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No 19	0.004751	0.001087	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No 19	0.004125	0.001791	78.95	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No 23	0.0008176	0.0003561	78.26	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No 23	0.0009313	0.0002283	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No 23	0.0009657	0.0001647	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No 23	0.0009361	0.0002141	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00018	0.002	No 23	0.00053	0.0003931	39.13	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:54 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>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWA-6A (bg)	-0.00005954	-43	-37	Yes	14	64.29	n/a	0.05	NP

Appendix IV Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:54 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>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWA-10 (bg)	0.000008951	7	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	MGWA-11 (bg)	0.0009041	69	85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	MGWA-5 (bg)	0.00006631	28	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	25	85	No	25	92	n/a	0.05	NP
Lithium (mg/L)	MGWA-6A (bg)	-0.00005954	-43	-37	Yes	14	64.29	n/a	0.05	NP
Lithium (mg/L)	MGWC-7	0.001123	52	85	No	25	0	n/a	0.05	NP

Date Ranges

Date: 9/27/2024 4:47 PM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Arsenic (mg/L)

MGWA-6 overall:3/29/2018-8/13/2024

Cobalt (mg/L)

MGWC-7 overall:3/24/2021-8/14/2024

100% Non-Detects: Appendix IV Downgradient

Analysis Run 9/27/2024 4:25 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Antimony (mg/L)
MGWC-1, MGWC-2, MGWC-8

Beryllium (mg/L)
MGWC-12, MGWC-2, MGWC-7

Cadmium (mg/L)
MGWC-12, MGWC-3

Lead (mg/L)
MGWC-1, MGWC-3

Mercury (mg/L)
MGWC-1

Molybdenum (mg/L)
MGWC-2, MGWC-3

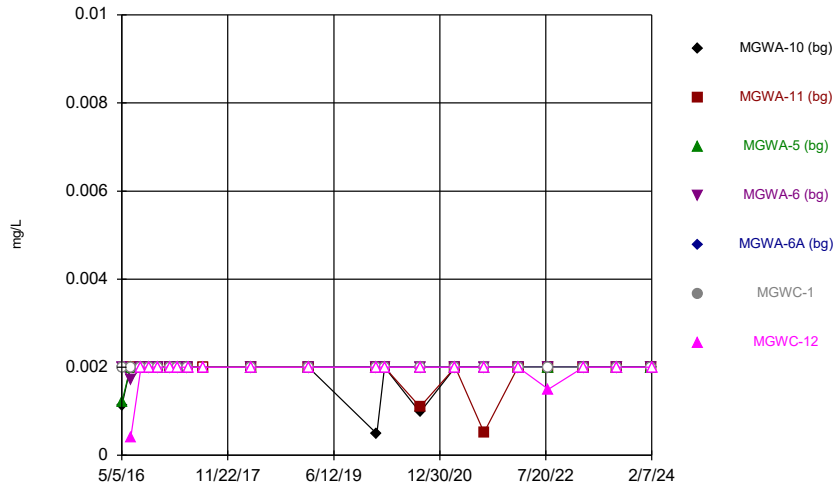
Thallium (mg/L)
MGWC-7

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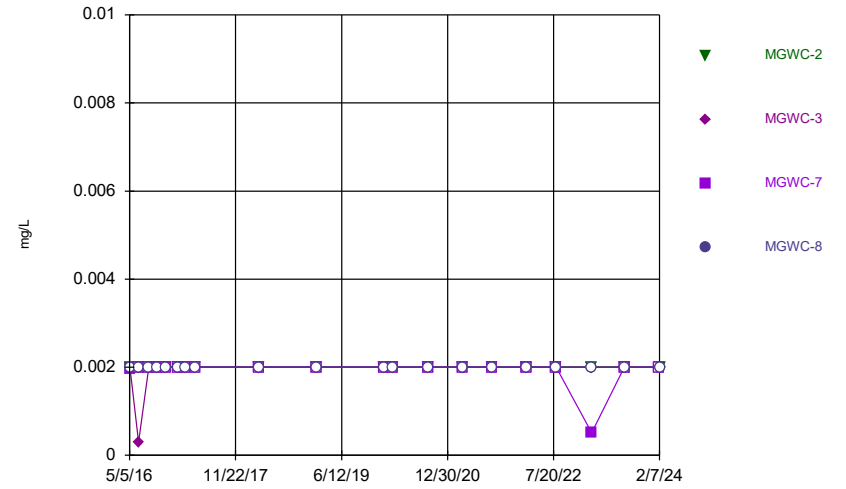
FIGURE A.

Time Series



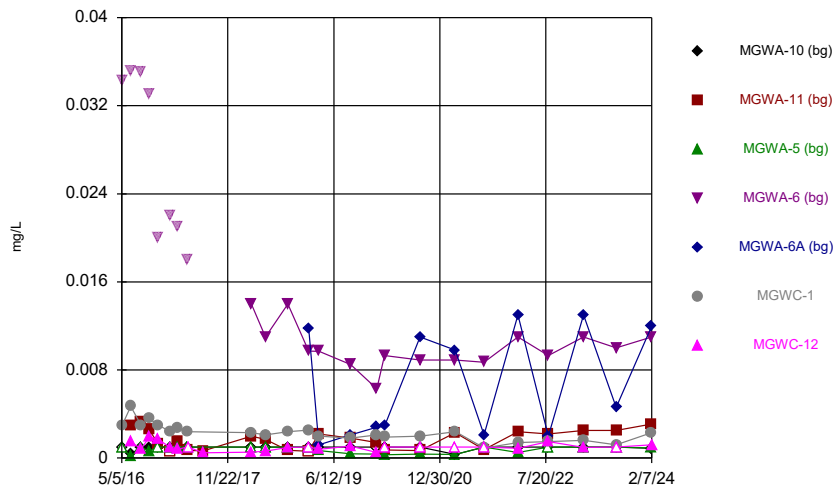
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



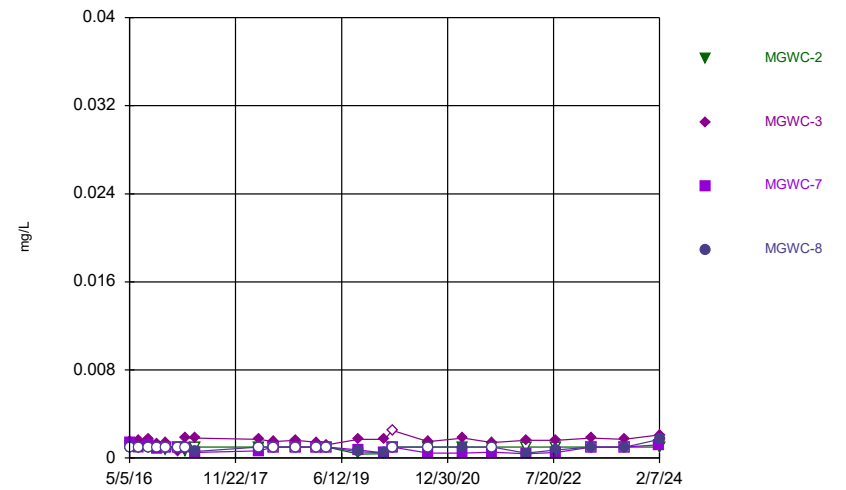
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Time Series



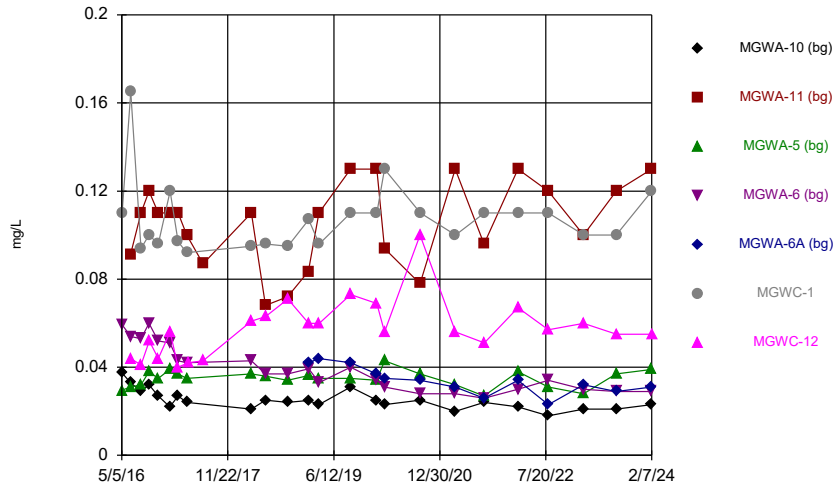
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Time Series



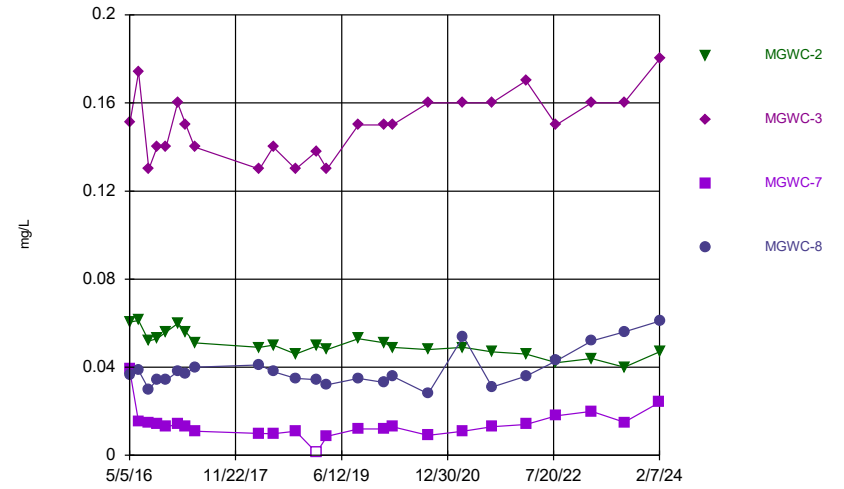
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Time Series



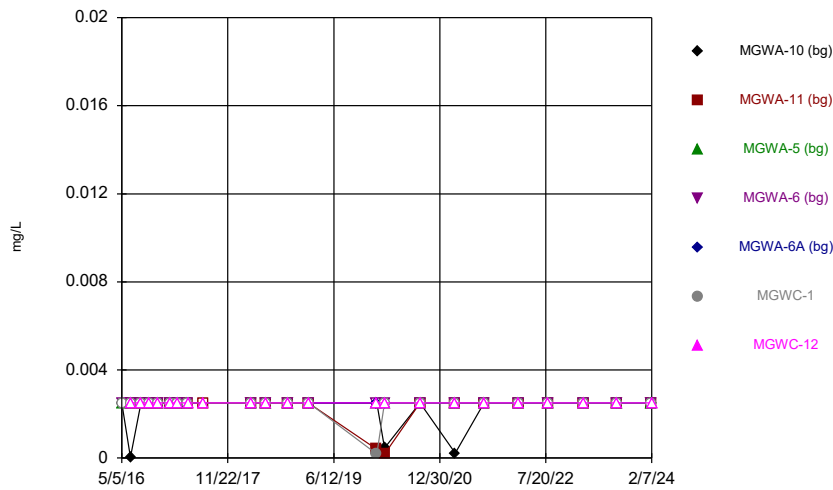
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Time Series



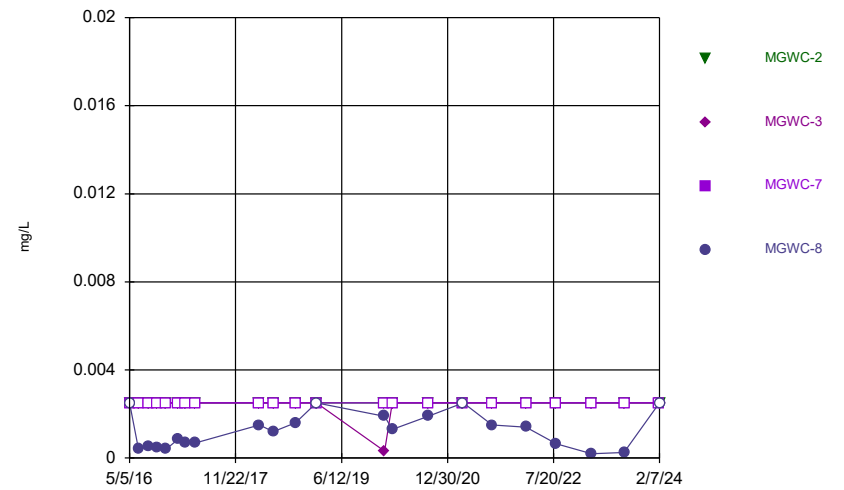
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Time Series



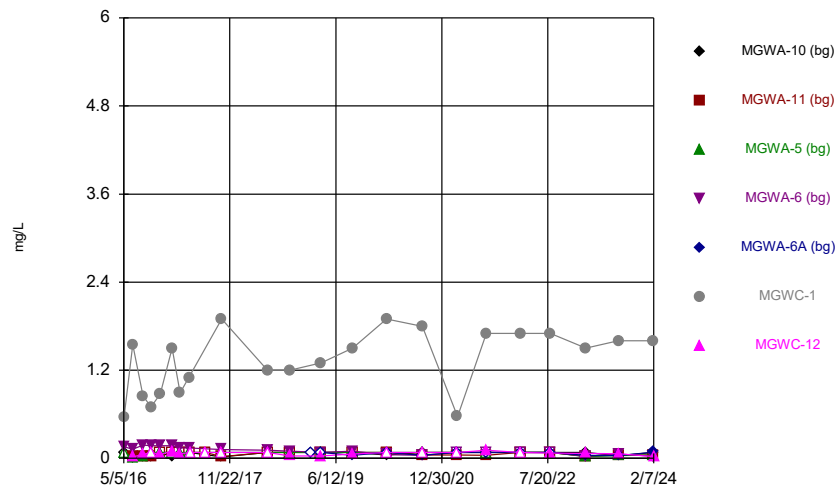
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Time Series



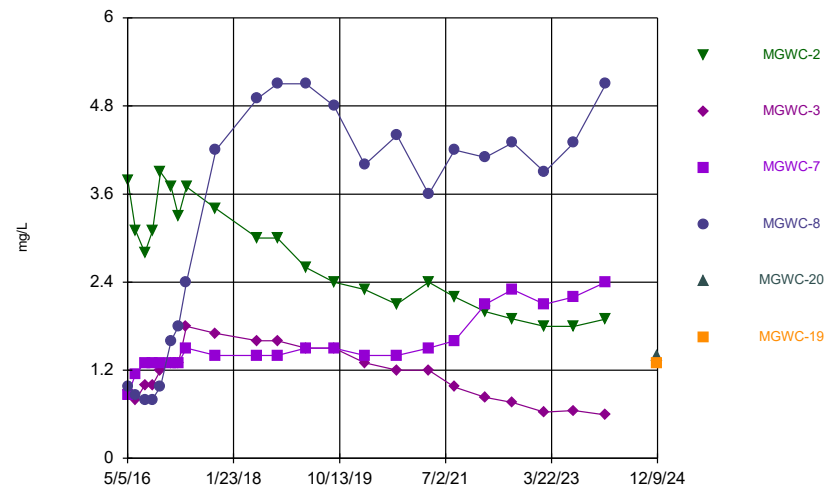
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Time Series



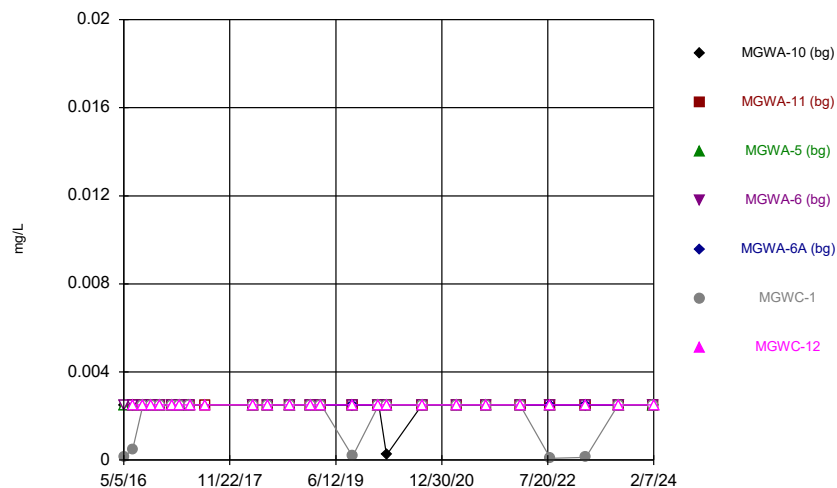
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 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



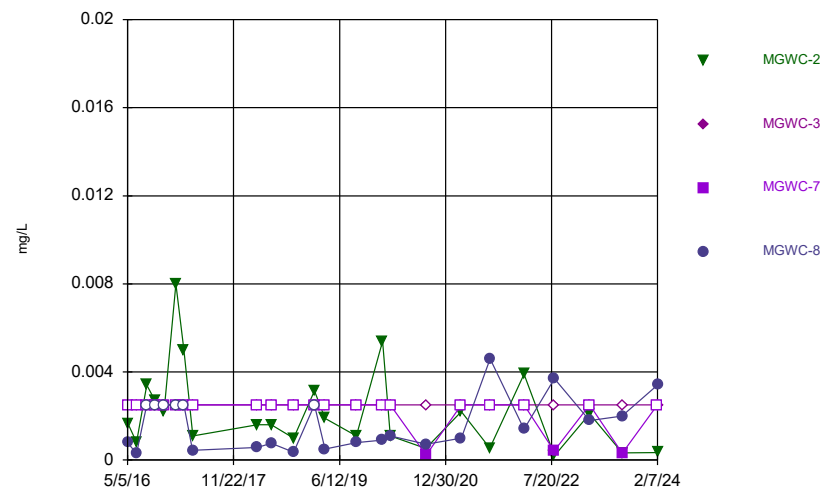
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 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



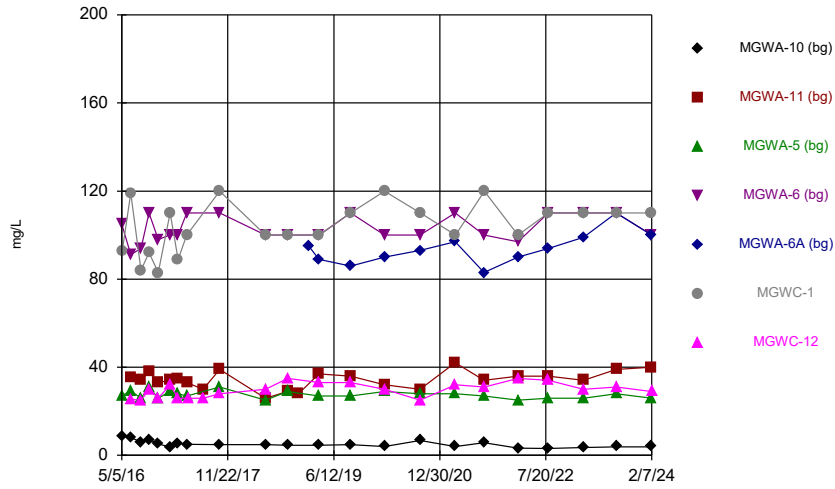
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Time Series



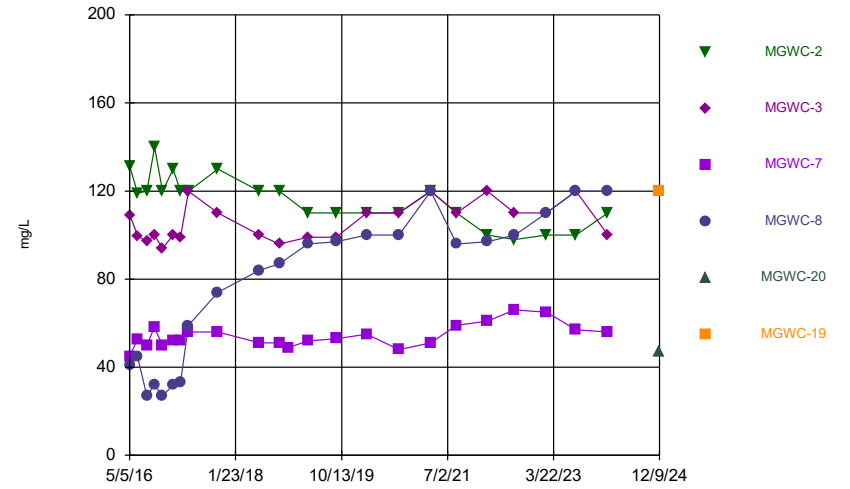
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Time Series



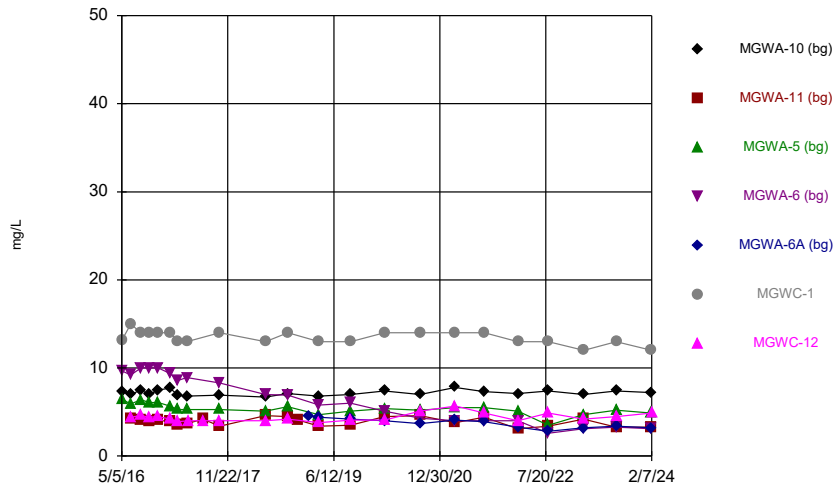
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



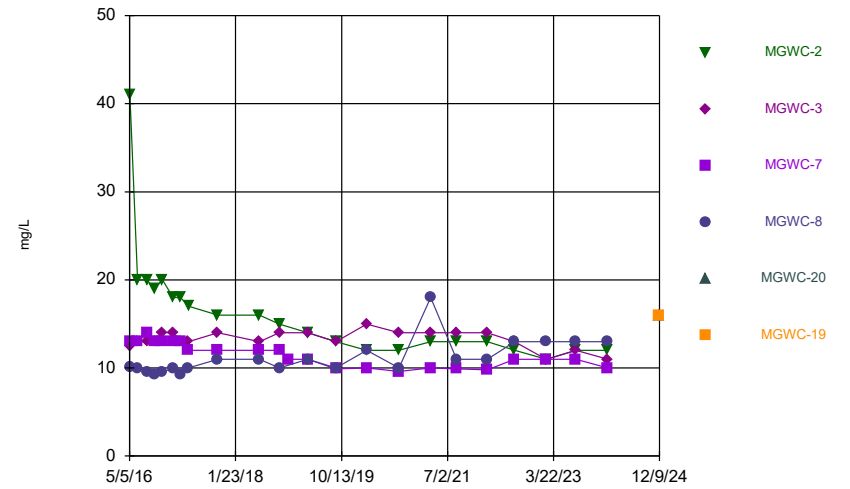
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Time Series



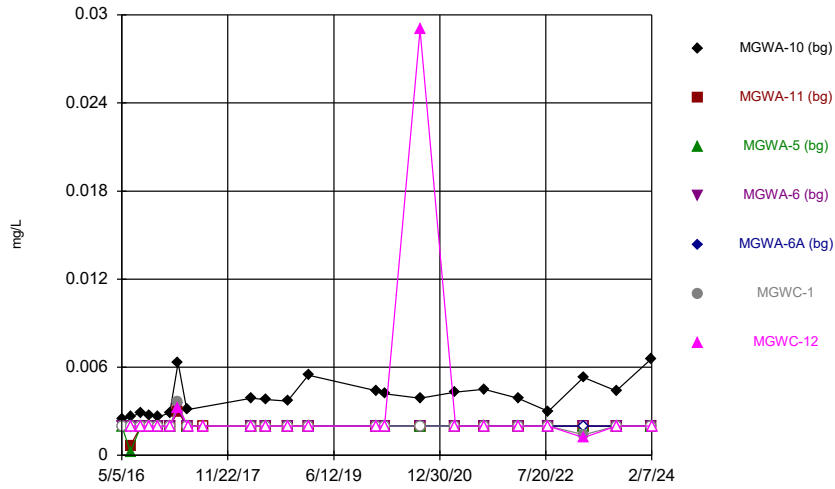
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Time Series



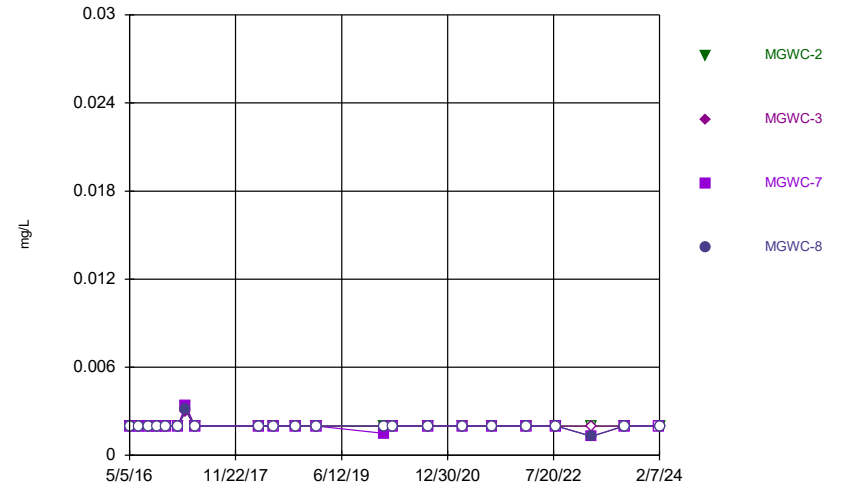
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Time Series



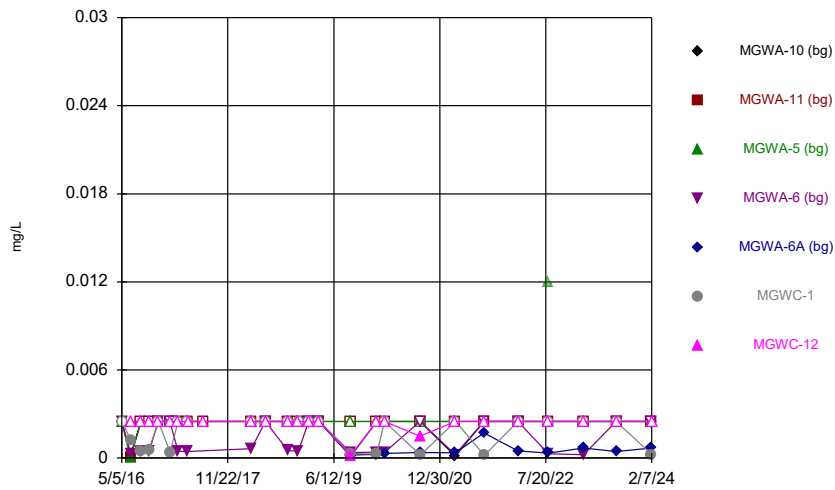
Constituent: Chromium Analysis Run 1/20/2025 10:47 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



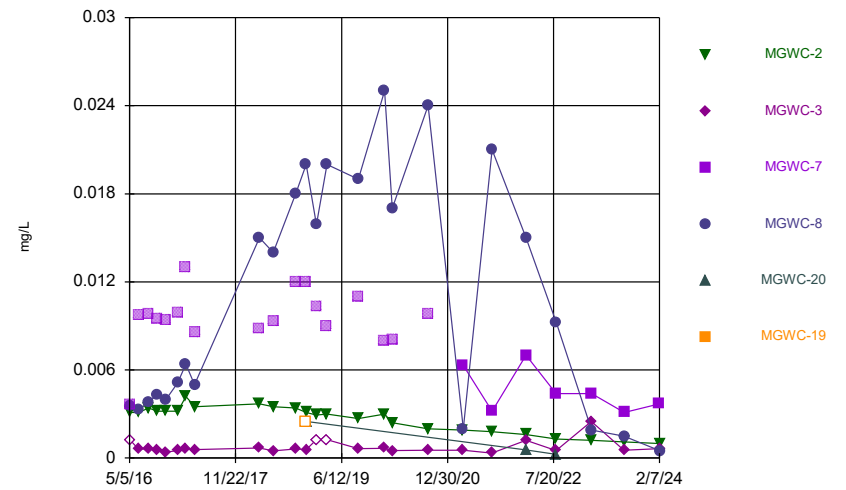
Constituent: Chromium Analysis Run 1/20/2025 10:47 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



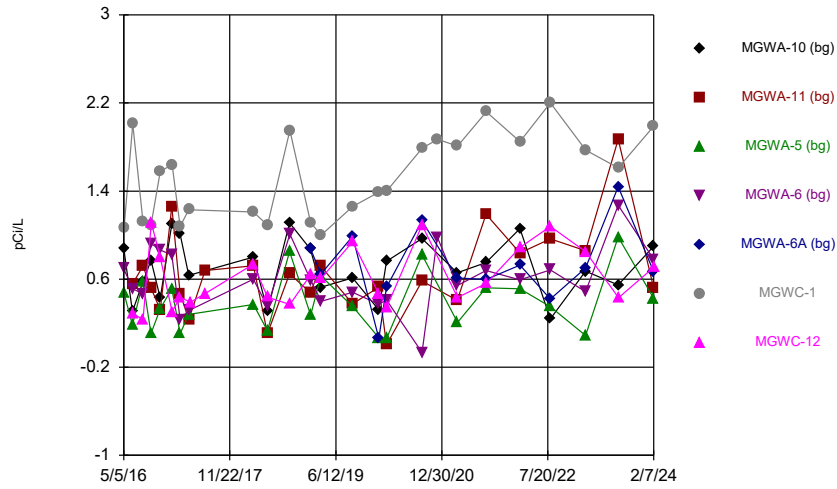
Constituent: Cobalt Analysis Run 1/20/2025 10:47 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



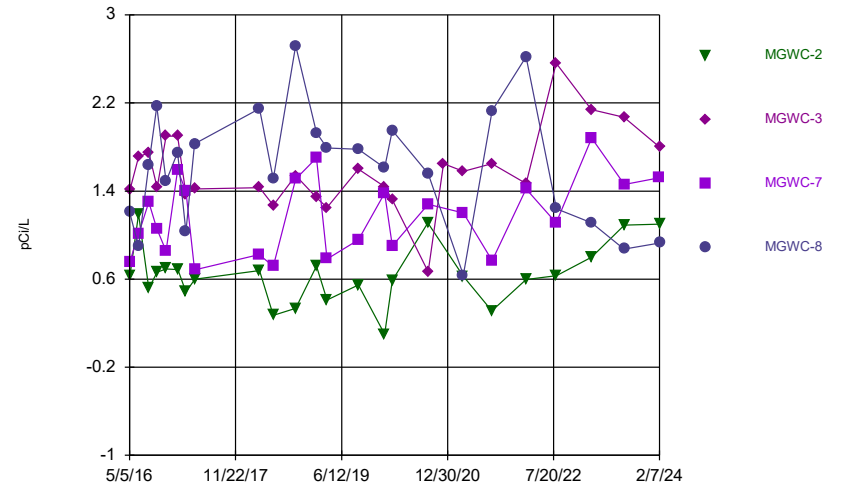
Constituent: Cobalt Analysis Run 1/20/2025 10:47 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



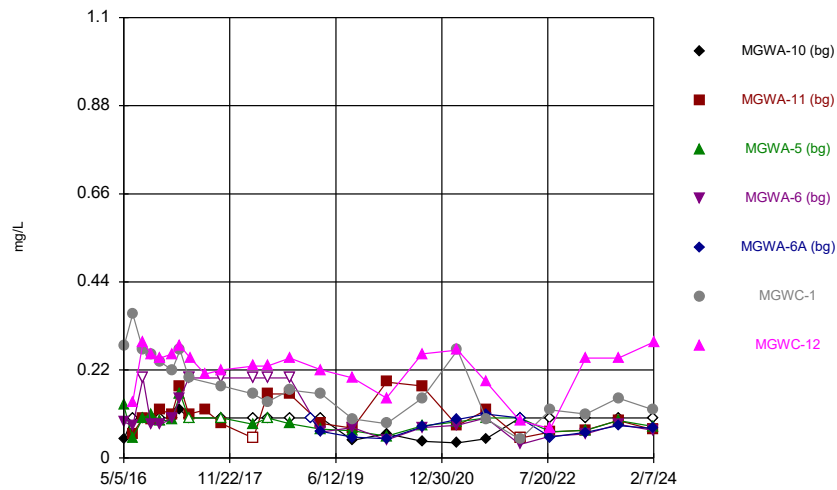
Constituent: Combined Radium 226 + 228 Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



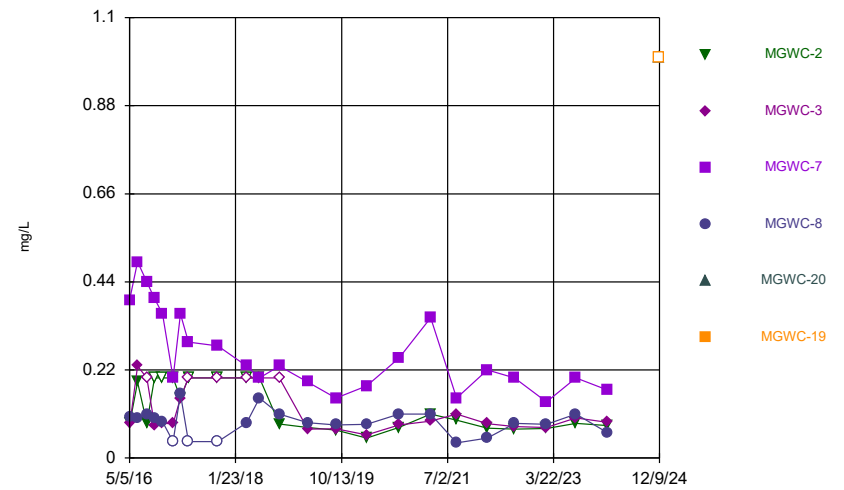
Constituent: Combined Radium 226 + 228 Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



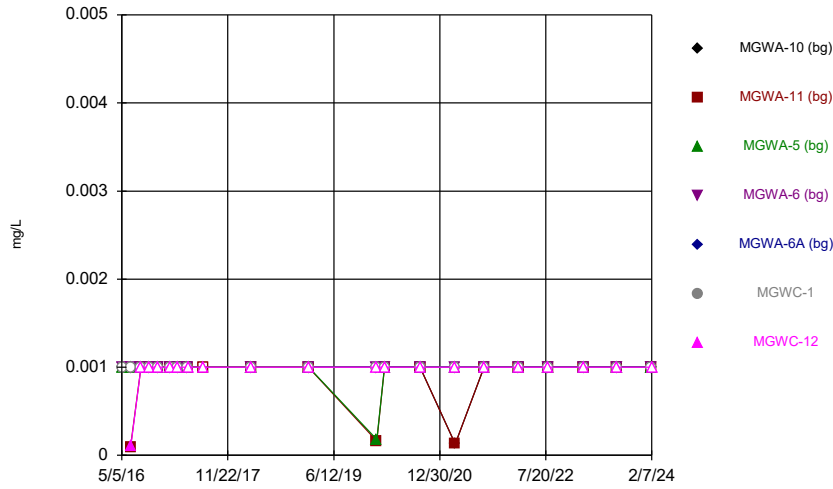
Constituent: Fluoride Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



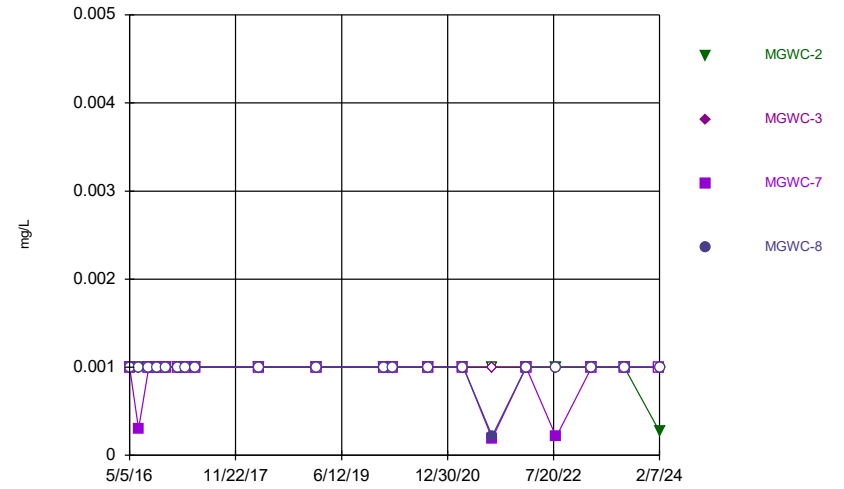
Constituent: Fluoride Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



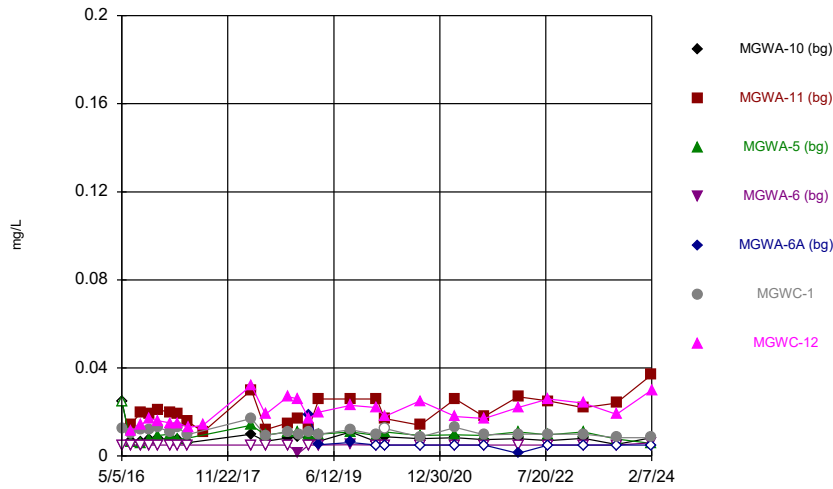
Constituent: Lead Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



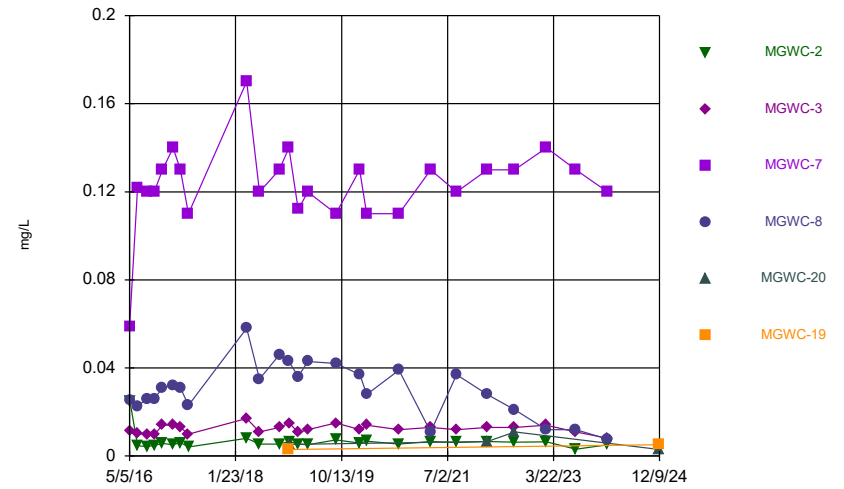
Constituent: Lead Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



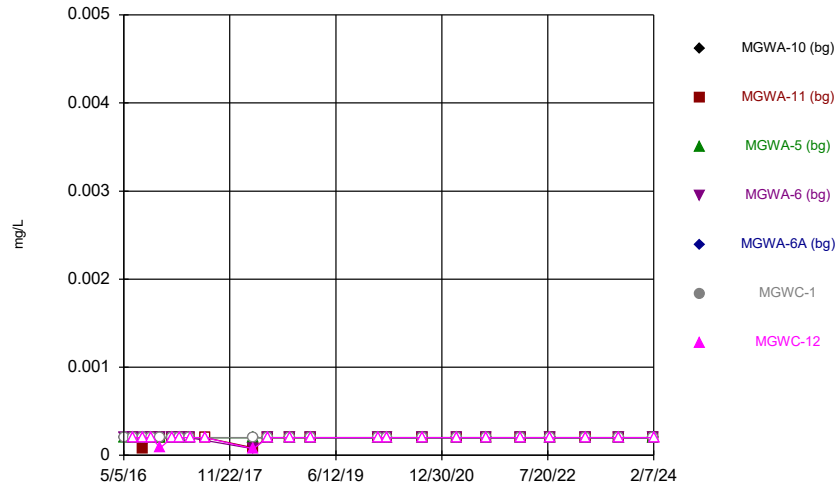
Constituent: Lithium Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



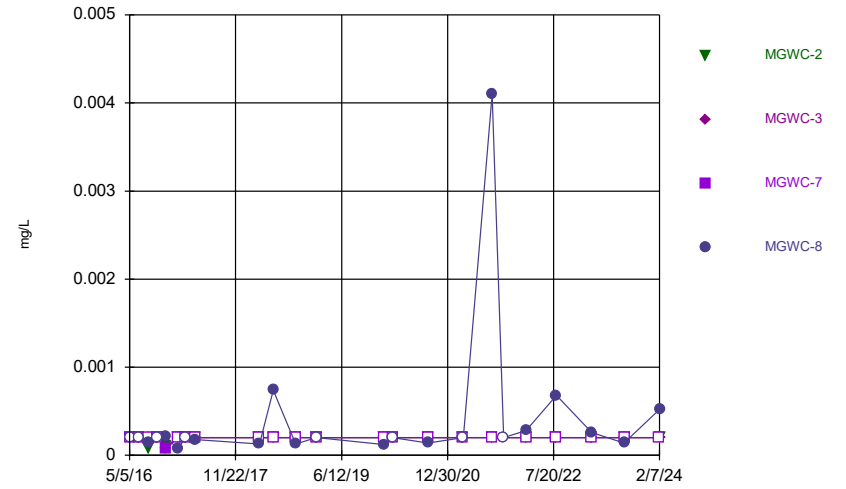
Constituent: Lithium Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



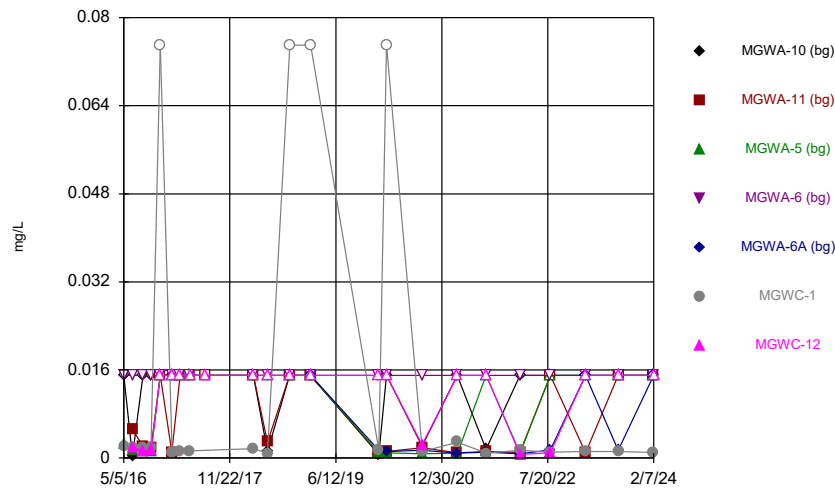
Constituent: Mercury Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



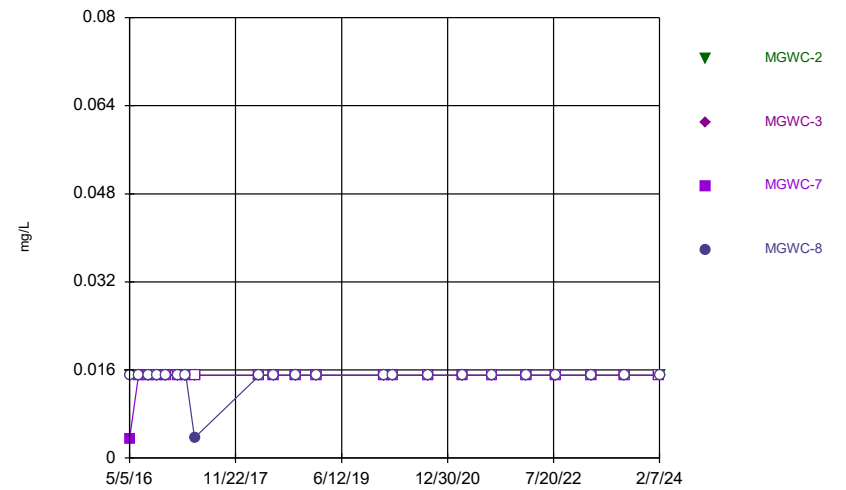
Constituent: Mercury Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



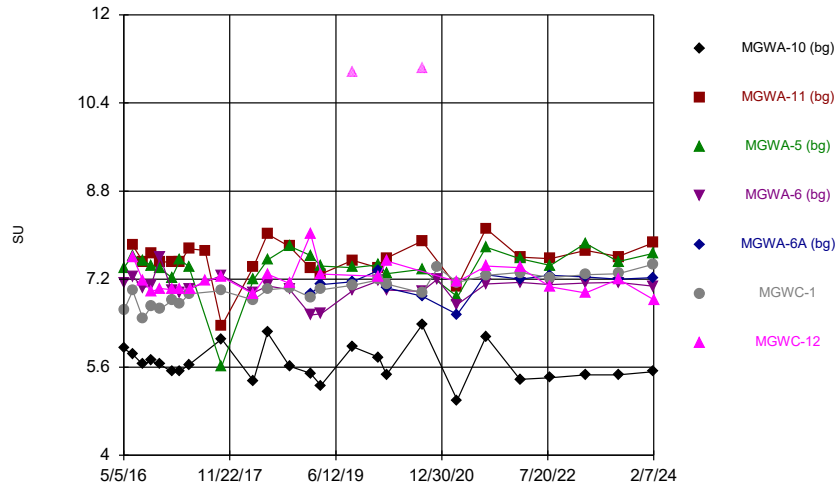
Constituent: Molybdenum Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



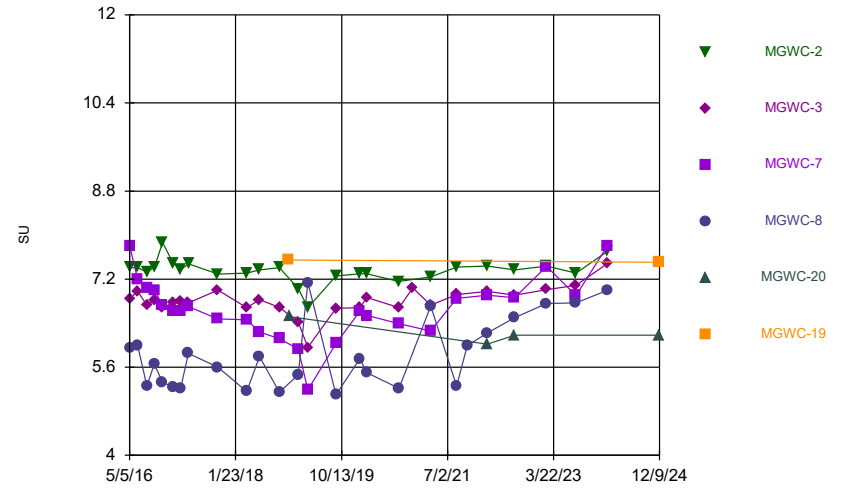
Constituent: Molybdenum Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



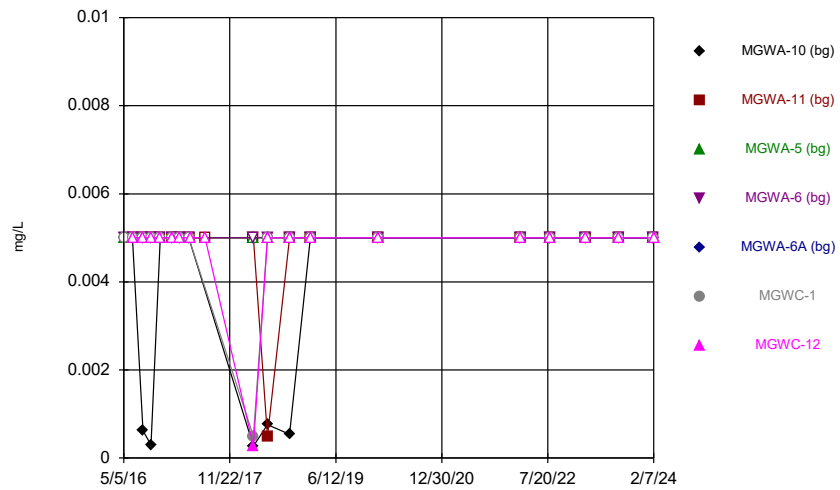
Constituent: pH Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



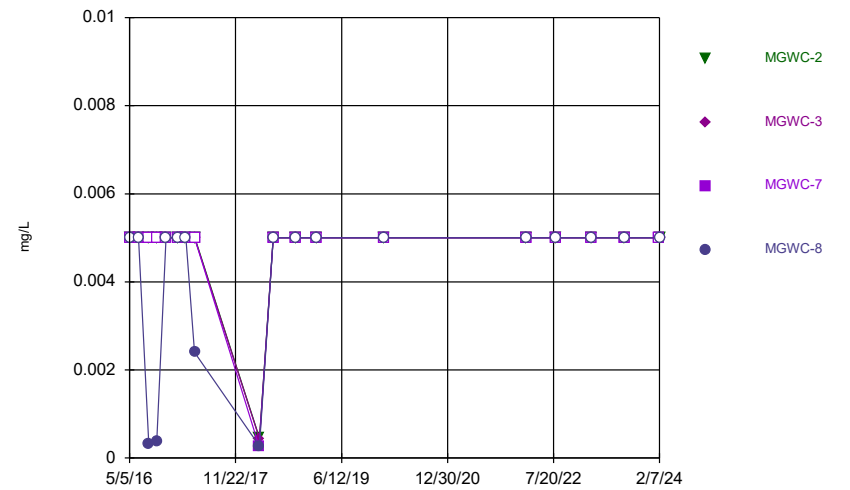
Constituent: pH Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



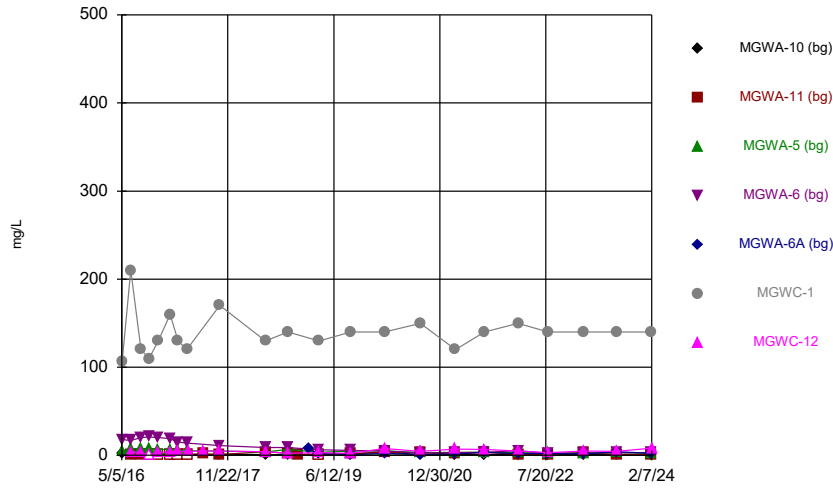
Constituent: Selenium Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



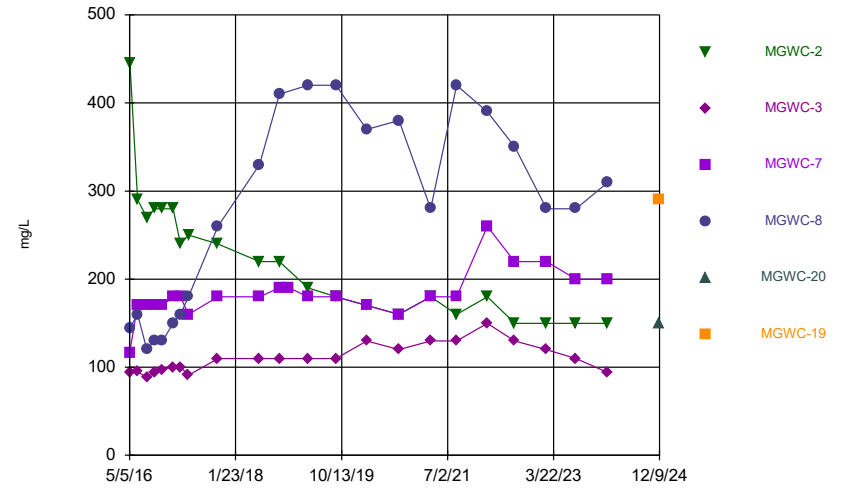
Constituent: Selenium Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



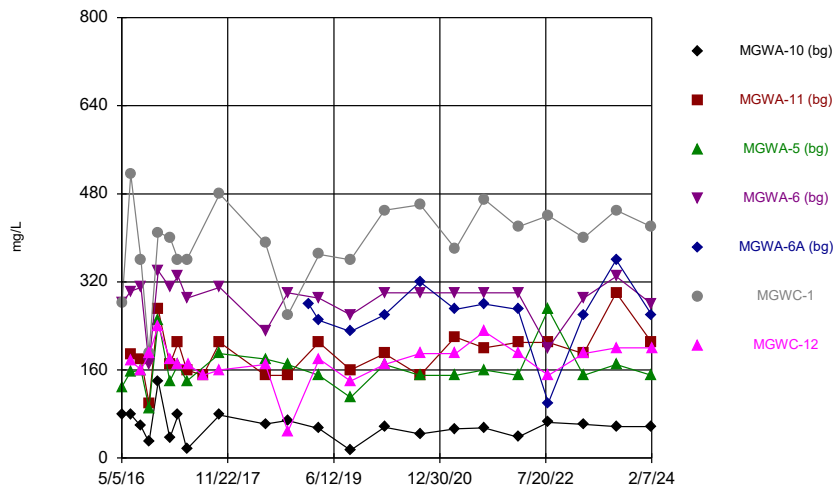
Constituent: Sulfate Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



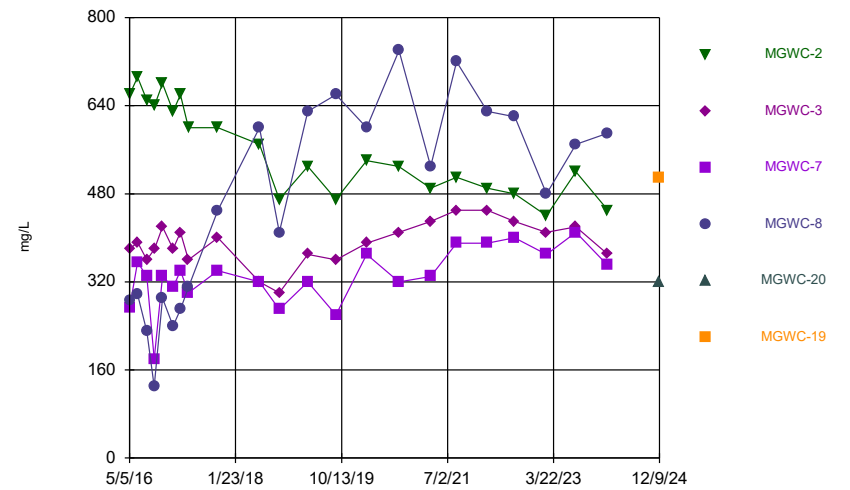
Constituent: Sulfate Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



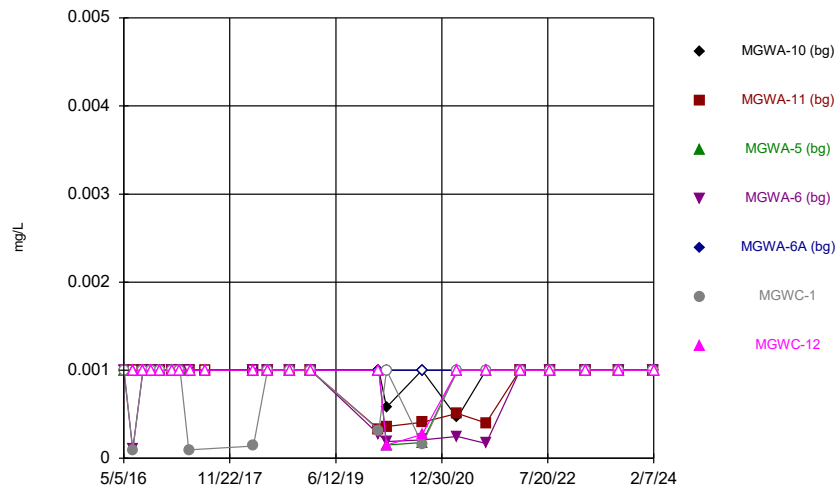
Constituent: TDS Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



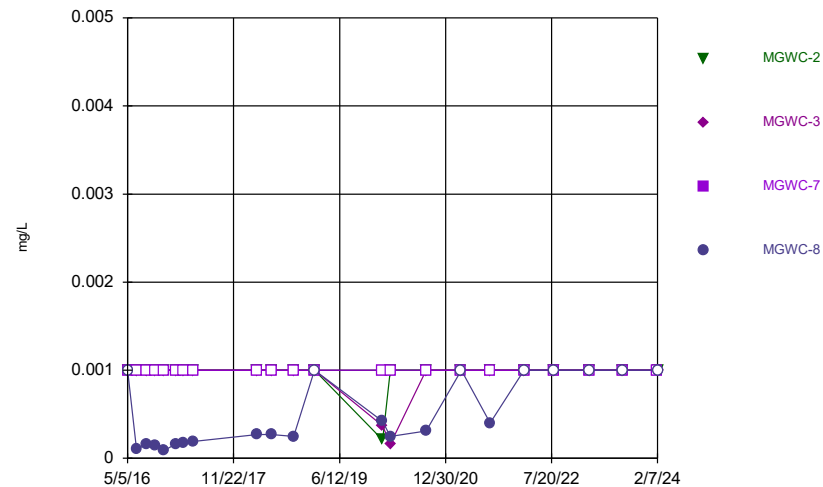
Constituent: TDS Analysis Run 1/20/2025 10:48 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



Constituent: Thallium Analysis Run 1/20/2025 10:48 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



Constituent: Thallium Analysis Run 1/20/2025 10:48 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	0.00112 (J)		0.0012 (J)	<0.002			
5/6/2016						<0.002	
6/20/2016	<0.002	<0.002	<0.002				
6/21/2016				0.0017 (J)		<0.002	0.0004 (J)
8/15/2016	<0.002	<0.002	<0.002	<0.002			
8/16/2016						<0.002	<0.002
9/28/2016	<0.002	<0.002	<0.002	<0.002		<0.002	
9/29/2016							<0.002
11/16/2016	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
1/16/2017	<0.002						
1/17/2017		<0.002	<0.002	<0.002			
1/18/2017							<0.002
1/19/2017						<0.002	
3/2/2017	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
4/18/2017	<0.002	<0.002	<0.002	<0.002		<0.002	
4/25/2017							<0.002
7/13/2017		<0.002					<0.002
3/29/2018	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
1/28/2019	<0.002	<0.002					
1/29/2019			<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020	0.00049 (J)	<0.002	<0.002	<0.002	<0.002		<0.002
1/29/2020						<0.002	
3/9/2020	<0.002	<0.002					
3/10/2020			<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020	0.00098 (J)	0.0011 (J)	<0.002	<0.002	<0.002		<0.002
9/17/2020						<0.002	
3/23/2021	<0.002	<0.002		<0.002	<0.002		
3/24/2021			<0.002			<0.002	<0.002
8/23/2021	<0.002	0.00052 (J)					
8/24/2021			<0.002	<0.002	<0.002		
8/25/2021						<0.002	<0.002
2/22/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002		0.0015 (J)
8/3/2022						<0.002	
2/7/2023	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2023						<0.002	
8/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
8/2/2023							<0.002
2/6/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2024							<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			0.00197 (J)	<0.002
5/6/2016	<0.002	<0.002		
6/21/2016	<0.002	0.0003 (J)	<0.002	<0.002
8/15/2016			<0.002	<0.002
8/16/2016	<0.002	<0.002		
9/28/2016			<0.002	<0.002
9/29/2016	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002
1/17/2017		<0.002	<0.002	<0.002
1/18/2017	<0.002			
3/2/2017	<0.002	<0.002	<0.002	<0.002
4/18/2017		<0.002	<0.002	<0.002
4/19/2017	<0.002			
3/29/2018			<0.002	
3/30/2018	<0.002	<0.002		<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002
1/28/2020			<0.002	
1/29/2020	<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002
9/16/2020	<0.002			
9/17/2020		<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002
8/24/2021	<0.002	<0.002		
8/25/2021			<0.002	<0.002
2/23/2022	<0.002	<0.002	<0.002	<0.002
8/3/2022		<0.002	<0.002	
8/4/2022	<0.002			<0.002
2/7/2023		<0.002		
2/8/2023	<0.002		0.00051 (J)	<0.002
8/1/2023		<0.002		<0.002
8/2/2023	<0.002		<0.002	
2/6/2024			<0.002	
2/7/2024	<0.002	<0.002		<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.001		<0.001	0.0343			
5/6/2016						0.00299 (J)	
6/20/2016	0.00036 (J)	0.003 (J)	0.00014 (J)				
6/21/2016				0.0352		0.0047 (J)	0.0015 (J)
8/15/2016	0.00096 (J)	0.0033	<0.001	0.035			
8/16/2016						0.003	0.00082 (J)
9/28/2016	0.00095 (J)	0.0026	0.00062 (J)	0.033		0.0036	
9/29/2016							0.0019
11/16/2016	<0.001	0.0013	<0.001	0.02		0.003	0.0017
1/16/2017	<0.001						
1/17/2017		<0.00125	<0.001	0.022			
1/18/2017							0.00096 (J)
1/19/2017						0.0024	
3/2/2017	<0.001	0.0015	<0.001	0.021		0.0027	0.00082 (J)
4/18/2017	<0.001	0.00071 (J)	<0.001	0.018		0.0024	
4/25/2017							<0.001
7/13/2017		0.00066 (J)					0.00047 (J)
3/29/2018	<0.001	0.002	<0.001	0.014		0.0023	0.00053 (J)
6/12/2018	<0.001	0.0017	<0.001				0.00063 (J)
6/13/2018				0.011		0.0021	
10/9/2018	<0.001	0.00072 (J)	<0.001				
10/10/2018				0.014		0.0024	0.00098 (J)
1/28/2019	<0.001	<0.00125					
1/29/2019			<0.001	0.00972	0.0118	0.00255	<0.001
3/25/2019	<0.001	0.0022	0.00069 (J)		0.0012 (J)		
3/26/2019				0.0097		0.002	0.00079 (J)
9/10/2019	<0.001	0.0018	0.00039 (J)	0.0085	0.0021	0.0018	0.0011
1/28/2020	<0.001	0.0014	0.00036 (J)	0.0063	0.0028		0.00051 (J)
1/29/2020						0.0021	
3/9/2020	<0.001	0.00073 (J)					
3/10/2020			0.00031 (J)	0.0093	0.0029	0.0019	<0.001
9/16/2020	<0.001	0.00069 (J)	0.00035 (J)	0.0089	0.011		<0.001
9/17/2020						0.002	
3/23/2021	0.00033 (J)	0.0023		0.0089	0.0098		
3/24/2021			0.00033 (J)			0.0024	<0.001
8/23/2021	<0.001	0.00077 (J)					
8/24/2021			<0.001	0.0087	0.0021		
8/25/2021						0.00092 (J)	<0.001
2/22/2022	<0.001	0.0024	0.00052 (J)	0.011	0.013	0.0014	0.00089 (J)
8/2/2022	<0.001	0.0022	<0.001	0.0093	0.002		0.0015
8/3/2022						0.0015	
2/7/2023	<0.001	0.0025	<0.001	0.011	0.013		0.00098 (J)
2/8/2023						0.0016	
8/1/2023	<0.001	0.0025	<0.001	0.01	0.0046	0.0012	
8/2/2023							<0.001
2/6/2024	0.00088 (J)	0.0031	0.00092 (J)	0.011	0.012	0.0023	
2/7/2024							0.0012

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			0.00143 (J)	<0.001
5/6/2016	<0.001	0.00154 (J)		
6/21/2016	<0.001	0.0016 (J)	0.0009 (J)	<0.001
8/15/2016			0.0012 (J)	<0.001
8/16/2016	<0.001	0.0017		
9/28/2016			0.00084 (J)	<0.001
9/29/2016	<0.001	0.0013		
11/16/2016	0.00068 (J)	0.0014	<0.001	<0.001
1/17/2017		0.00056 (J)	<0.001	<0.001
1/18/2017	<0.001			
3/2/2017	0.00065 (J)	0.0018	0.0009 (J)	<0.001
4/18/2017		0.0018	0.0005 (J)	0.00059 (J)
4/19/2017	<0.001			
3/29/2018			0.00066 (J)	
3/30/2018	<0.001	0.0017		<0.001
6/13/2018	<0.001	0.0015	<0.001	<0.001
10/10/2018	<0.001	0.0016	<0.001	<0.001
1/29/2019	<0.001	0.00143	<0.001	<0.001
3/26/2019	<0.001	0.0012 (J)	<0.001	<0.001
9/10/2019	0.00036 (J)	0.0017	0.00074 (J)	0.00056 (J)
1/28/2020			0.00046 (J)	
1/29/2020	0.0004 (J)	0.0017		0.00047 (J)
3/10/2020	<0.001	<0.005	<0.001	<0.001
9/16/2020	<0.001			
9/17/2020		0.0015	0.00045 (J)	<0.001
3/24/2021	<0.001	0.0018	0.00046 (J)	0.00099 (J)
8/24/2021	<0.001	0.0014		
8/25/2021			0.00055 (J)	<0.001
2/23/2022	<0.001	0.0016	0.0004 (J)	0.00044 (J)
8/3/2022		0.0016	0.00052 (J)	
8/4/2022	<0.001			0.00075 (J)
2/7/2023		0.0018		
2/8/2023	<0.001		<0.001	0.001
8/1/2023		0.0017		0.00098 (J)
8/2/2023	<0.001		<0.001	
2/6/2024			0.0012	
2/7/2024	<0.001	0.0021		0.0017

Time Series

Constituent: Barium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			0.039	0.0364
5/6/2016	0.0605	0.151		
6/21/2016	0.0613	0.174	0.0152	0.0386
8/15/2016			0.015	0.03
8/16/2016	0.052	0.13		
9/28/2016			0.014	0.034
9/29/2016	0.053	0.14		
11/16/2016	0.056	0.14	0.013	0.034
1/17/2017		0.16	0.014	0.038
1/18/2017	0.06			
3/2/2017	0.056	0.15	0.013	0.037
4/18/2017		0.14	0.011	0.04
4/19/2017	0.051			
3/29/2018			0.01	
3/30/2018	0.049	0.13		0.041
6/13/2018	0.05	0.14	0.0098	0.038
10/10/2018	0.046	0.13	0.011	0.035
1/29/2019	0.0496	0.138	<0.0025	0.0344
3/26/2019	0.048	0.13	0.0086	0.032
9/10/2019	0.053	0.15	0.012	0.035
1/28/2020			0.012	
1/29/2020	0.051	0.15		0.033
3/10/2020	0.049	0.15	0.013	0.036
9/16/2020	0.048			
9/17/2020		0.16	0.0091 (J)	0.028
3/24/2021	0.049	0.16	0.011	0.054
8/24/2021	0.047	0.16		
8/25/2021			0.013	0.031
2/23/2022	0.046	0.17	0.014	0.036
8/3/2022		0.15	0.018	
8/4/2022	0.042			0.043
2/7/2023		0.16		
2/8/2023	0.044		0.02	0.052
8/1/2023		0.16		0.056
8/2/2023	0.04		0.015	
2/6/2024			0.024	
2/7/2024	0.047	0.18		0.061

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.0025		<0.0025	<0.0025			
5/6/2016						<0.0025	
6/20/2016	3.3E-05 (J)	<0.0025	<0.0025				
6/21/2016				<0.0025		<0.0025	<0.0025
8/15/2016	<0.0025	<0.0025	<0.0025	<0.0025			
8/16/2016						<0.0025	<0.0025
9/28/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
9/29/2016							<0.0025
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
1/16/2017	<0.0025						
1/17/2017		<0.0025	<0.0025	<0.0025			
1/18/2017							<0.0025
1/19/2017						<0.0025	
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
4/25/2017							<0.0025
7/13/2017		<0.0025					<0.0025
3/29/2018	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025				<0.0025
6/13/2018				<0.0025		<0.0025	
10/9/2018	<0.0025	<0.0025	<0.0025				
10/10/2018				<0.0025		<0.0025	<0.0025
1/28/2019	<0.0025	<0.0025					
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/28/2020	<0.0025	0.0004 (J)	<0.0025	<0.0025	<0.0025		<0.0025
1/29/2020						0.00018 (J)	
3/9/2020	0.00045 (J)	0.00018 (J)					
3/10/2020			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/17/2020						<0.0025	
3/23/2021	0.00022 (J)	<0.0025		<0.0025	<0.0025		
3/24/2021			<0.0025			<0.0025	<0.0025
8/23/2021	<0.0025	<0.0025					
8/24/2021			<0.0025	<0.0025	<0.0025		
8/25/2021						<0.0025	<0.0025
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
8/3/2022						<0.0025	
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
2/8/2023						<0.0025	
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/2/2023							<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2024							<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.0025	<0.0025
5/6/2016	<0.0025	<0.0025		
6/21/2016	<0.0025	<0.0025	<0.0025	0.0004 (J)
8/15/2016			<0.0025	0.00053 (J)
8/16/2016	<0.0025	<0.0025		
9/28/2016			<0.0025	0.00049 (J)
9/29/2016	<0.0025	<0.0025		
11/16/2016	<0.0025	<0.0025	<0.0025	0.0004 (J)
1/17/2017		<0.0025	<0.0025	0.00084 (J)
1/18/2017	<0.0025			
3/2/2017	<0.0025	<0.0025	<0.0025	0.00068 (J)
4/18/2017		<0.0025	<0.0025	0.00067 (J)
4/19/2017	<0.0025			
3/29/2018			<0.0025	
3/30/2018	<0.0025	<0.0025		0.0015 (J)
6/13/2018	<0.0025	<0.0025	<0.0025	0.0012 (J)
10/10/2018	<0.0025	<0.0025	<0.0025	0.0016 (J)
1/29/2019	<0.0025	<0.0025	<0.0025	<0.0025
1/28/2020			<0.0025	
1/29/2020	<0.0025	0.00031 (J)		0.0019
3/10/2020	<0.0025	<0.0025	<0.0025	0.0013 (J)
9/16/2020	<0.0025			
9/17/2020		<0.0025	<0.0025	0.0019 (J)
3/24/2021	<0.0025	<0.0025	<0.0025	<0.0025
8/24/2021	<0.0025	<0.0025		
8/25/2021			<0.0025	0.0015 (J)
2/23/2022	<0.0025	<0.0025	<0.0025	0.0014 (J)
8/3/2022		<0.0025	<0.0025	
8/4/2022	<0.0025			0.00064 (J)
2/7/2023		<0.0025		
2/8/2023	<0.0025		<0.0025	0.0002 (J)
8/1/2023		<0.0025		0.00025 (J)
8/2/2023	<0.0025		<0.0025	
2/6/2024			<0.0025	
2/7/2024	<0.0025	<0.0025		<0.0025

Time Series

Constituent: Boron (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.08		<0.08	0.157			
5/6/2016						0.567	
6/20/2016	0.011 (J)	0.017 (J)	0.013 (J)				
6/21/2016				0.124		1.55	0.0201 (J)
8/15/2016	0.022 (J)	0.032 (J)	0.023 (J)	0.18			
8/16/2016						0.85	0.055
9/28/2016	0.023 (J)	0.021 (J)	<0.08	0.17		0.7	
9/29/2016							<0.08
11/16/2016	<0.08	<0.08	<0.08	0.17		0.88	0.055
1/16/2017	0.021 (J)						
1/17/2017		<0.08	<0.08	0.17			
1/18/2017							0.097
1/19/2017						1.5	
3/2/2017	<0.08	<0.08	<0.08	0.14		0.89	0.064
4/18/2017	<0.08	<0.08	<0.08	0.14		1.1	
4/25/2017							<0.08
7/13/2017		<0.08					<0.08
10/10/2017	0.021 (J)	0.025 (J)	<0.08	0.12		1.9	<0.08
6/12/2018	<0.08	<0.08	<0.08				<0.08
6/13/2018				0.11		1.2	
10/9/2018	<0.08	<0.08	<0.08				
10/10/2018				0.096 (J)		1.2	0.034 (J)
1/29/2019					<0.08		
3/25/2019	<0.08	<0.08	<0.08		<0.08		
3/26/2019				0.079 (J)		1.3	0.032 (J)
9/10/2019	<0.08	<0.08	<0.08	0.097	0.04 (J)	1.5	0.06 (J)
3/9/2020	0.045 (J)	<0.08					
3/10/2020			<0.08	0.051 (J)	<0.08	1.9	<0.08
9/16/2020	<0.08	0.045 (J)	<0.08	0.041 (J)	0.04 (J)		<0.08
9/17/2020						1.8	
3/23/2021	<0.08	0.047 (J)		<0.08	<0.08		
3/24/2021			<0.08			0.57	<0.08
8/23/2021	<0.08	0.043 (J)					
8/24/2021			<0.08	<0.08	<0.08		
8/25/2021						1.7	0.11
2/22/2022	<0.08	<0.08	<0.08	<0.08	<0.08	1.7	<0.08
8/2/2022	<0.08	<0.08	<0.08	<0.08	<0.08		0.071 (J)
8/3/2022						1.7	
2/7/2023	<0.08	0.028 (J)	0.022 (J)	0.028 (J)	0.039 (J)		0.067 (J)
2/8/2023						1.5	
8/1/2023	0.035 (J)	0.045 (J)	0.037 (J)	0.057 (J)	0.038 (J)	1.6	
8/2/2023							0.062 (J)
2/6/2024	<0.08	0.047 (J)	0.044 (J)	0.026 (J)	0.084	1.6	
2/7/2024							0.023 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			0.855	0.976		
5/6/2016	3.78	0.926				
6/21/2016	3.1	0.792	1.15	0.862		
8/15/2016			1.3	0.8		
8/16/2016	2.8	1				
9/28/2016			1.3	0.8		
9/29/2016	3.1	1				
11/16/2016	3.9	1.2	1.3	0.98		
1/17/2017		1.3	1.3	1.6		
1/18/2017	3.7					
3/2/2017	3.3	1.3	1.3	1.8		
4/18/2017		1.8	1.5	2.4		
4/19/2017	3.7					
10/10/2017	3.4	1.7	1.4	4.2		
6/13/2018	3	1.6	1.4	4.9		
10/10/2018	3	1.6	1.4	5.1		
3/26/2019	2.6	1.5	1.5	5.1		
9/10/2019	2.4	1.5	1.5	4.8		
3/10/2020	2.3	1.3	1.4	4		
9/16/2020	2.1					
9/17/2020		1.2	1.4	4.4		
3/24/2021	2.4	1.2	1.5	3.6		
8/24/2021	2.2	0.97				
8/25/2021			1.6	4.2		
2/23/2022	2	0.83	2.1	4.1		
8/3/2022		0.76	2.3			
8/4/2022	1.9			4.3		
2/7/2023		0.63				
2/8/2023	1.8		2.1	3.9		
8/1/2023		0.65		4.3		
8/2/2023	1.8		2.2			
2/6/2024			2.4			
2/7/2024	1.9	0.59		5.1		
12/9/2024					1.4	1.3

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.0025		<0.0025	<0.0025			
5/6/2016						0.000126 (J)	
6/20/2016	<0.0025	<0.0025	<0.0025				
6/21/2016				<0.0025		0.0005 (J)	<0.0025
8/15/2016	<0.0025	<0.0025	<0.0025	<0.0025			
8/16/2016						<0.0025	<0.0025
9/28/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
9/29/2016							<0.0025
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
1/16/2017	<0.0025						
1/17/2017		<0.0025	<0.0025	<0.0025			
1/18/2017							<0.0025
1/19/2017						<0.0025	
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
4/25/2017							<0.0025
7/13/2017		<0.0025					<0.0025
3/29/2018	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025				<0.0025
6/13/2018				<0.0025		<0.0025	
10/9/2018	<0.0025	<0.0025	<0.0025				
10/10/2018				<0.0025		<0.0025	<0.0025
1/28/2019	<0.0025	<0.0025					
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/25/2019	<0.0025	<0.0025	<0.0025		<0.0025		
3/26/2019				<0.0025		<0.0025	<0.0025
9/10/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	<0.0025
1/28/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
1/29/2020						<0.0025	
3/9/2020	0.00023 (J)	<0.0025					
3/10/2020			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/17/2020						<0.0025	
3/23/2021	<0.0025	<0.0025		<0.0025	<0.0025		
3/24/2021			<0.0025			<0.0025	<0.0025
8/23/2021	<0.0025	<0.0025					
8/24/2021			<0.0025	<0.0025	<0.0025		
8/25/2021						<0.0025	<0.0025
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
8/3/2022						8.5E-05 (J)	
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
2/8/2023						0.00012 (J)	
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/2/2023							<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2024							<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.0025	0.000784 (J)
5/6/2016	0.00166	<0.0025		
6/21/2016	0.0008 (J)	<0.0025	<0.0025	0.0003 (J)
8/15/2016			<0.0025	<0.0025
8/16/2016	0.0034	<0.0025		
9/28/2016			<0.0025	<0.0025
9/29/2016	0.0027	<0.0025		
11/16/2016	0.0022 (J)	<0.0025	<0.0025	<0.0025
1/17/2017		<0.0025	<0.0025	<0.0025
1/18/2017	0.008			
3/2/2017	0.005	<0.0025	<0.0025	<0.0025
4/18/2017		<0.0025	<0.0025	0.00044 (J)
4/19/2017	0.0011 (J)			
3/29/2018			<0.0025	
3/30/2018	0.0016 (J)	<0.0025		0.00058 (J)
6/13/2018	0.0016 (J)	<0.0025	<0.0025	0.00076 (J)
10/10/2018	0.001 (J)	<0.0025	<0.0025	0.00035 (J)
1/29/2019	0.00315	<0.0025	<0.0025	<0.0025
3/26/2019	0.0019 (J)	<0.0025	<0.0025	0.0005 (J)
9/10/2019	0.0011	<0.0025	<0.0025	0.00079 (J)
1/28/2020			<0.0025	
1/29/2020	0.0054	<0.0025		0.0009 (J)
3/10/2020	0.0011 (J)	<0.0025	<0.0025	0.0011 (J)
9/16/2020	0.00053 (J)			
9/17/2020		<0.0025	0.00023 (J)	0.00072 (J)
3/24/2021	0.0022 (J)	<0.0025	<0.0025	0.001 (J)
8/24/2021	0.00054 (J)	<0.0025		
8/25/2021			<0.0025	0.0046
2/23/2022	0.0039	<0.0025	<0.0025	0.0014 (J)
8/3/2022		<0.0025	0.00041 (J)	
8/4/2022	0.0002 (J)			0.0037
2/7/2023		<0.0025		
2/8/2023	0.0021 (J)		<0.0025	0.0018 (J)
8/1/2023		<0.0025		0.002 (J)
8/2/2023	0.00032 (J)		0.00031 (J)	
2/6/2024			<0.0025	
2/7/2024	0.00034 (J)	<0.0025		0.0034

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	8.83		27	105			
5/6/2016						92.5	
6/20/2016	8.1	35.5	29.4				
6/21/2016				91.2		119	25.5
8/15/2016	6.1	34	26	94			
8/16/2016						84	25
9/28/2016	7.2	38	31	110		92	
9/29/2016							30
11/16/2016	5.2	33	26	98		83	26
1/16/2017	3.8						
1/17/2017		34	29	100			
1/18/2017							32
1/19/2017						110	
3/2/2017	5.4	35	28	100		89	26
4/18/2017	5	33	27	110		100	
4/25/2017							26
7/13/2017		30					26
10/10/2017	4.8	39	31	110		120	28
6/12/2018	4.8	26	25				30
6/13/2018				100		100	
10/9/2018	4.5	29	29				
10/10/2018				100		100	35
12/5/2018		28					
1/29/2019					95.1		
3/25/2019	4.6	37	27		89		
3/26/2019				100		100	33
9/10/2019	4.9	36	27	110	86	110	33
3/9/2020	4	32					
3/10/2020			29	100	90	120	30
9/16/2020	6.8	30	28	100	93		25
9/17/2020						110	
3/23/2021	4	42		110	97		
3/24/2021			28			100	32
8/23/2021	5.8	34					
8/24/2021			27	100	83		
8/25/2021						120	31
2/22/2022	3.3	36	25	97	90	100	35
8/2/2022	3.1	36	26	110	94		34
8/3/2022						110	
2/7/2023	3.6	34	26	110	99		30
2/8/2023						110	
8/1/2023	3.9	39	28	110	110	110	
8/2/2023							31
2/6/2024	3.9	40	26	100	100	110	
2/7/2024							29

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			45	41.2		
5/6/2016	131	109				
6/21/2016	119	99.7	52.8	44.7		
8/15/2016			50	27		
8/16/2016	120	97				
9/28/2016			58	32		
9/29/2016	140	100				
11/16/2016	120	94	50	27		
1/17/2017		100	52	32		
1/18/2017	130					
3/2/2017	120	99	52	33		
4/18/2017		120	56	59		
4/19/2017	120					
10/10/2017	130	110	56	74		
6/13/2018	120	100	51	84		
10/10/2018	120	96	51	87		
12/5/2018			49			
3/26/2019	110	99	52	96		
9/10/2019	110	99	53	97		
3/10/2020	110	110	55	100		
9/16/2020	110					
9/17/2020		110	48	100		
3/24/2021	120	120	51	120		
8/24/2021	110	110				
8/25/2021			59	96		
2/23/2022	100	120	61	97		
8/3/2022		110	66			
8/4/2022	98			100		
2/7/2023		110				
2/8/2023	100		65	110		
8/1/2023		120		120		
8/2/2023	100		57			
2/6/2024			56			
2/7/2024	110	100		120		
12/9/2024					47	120

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	7.35		6.51	9.67			
5/6/2016						13.2	
6/20/2016	7	4.3	5.9				
6/21/2016				9.2		15	4.4
8/15/2016	7.5	4.1	6.4	10			
8/16/2016						14	4.6
9/28/2016	7	3.9	6.1	10		14	
9/29/2016							4.4
11/16/2016	7.5	4.1	6.1	10		14	4.5
1/16/2017	7.7						
1/17/2017		3.9	5.7	9.4			
1/18/2017							4.2
1/19/2017						14	
3/2/2017	6.9	3.5	5.3	8.6		13	3.9
4/18/2017	6.8	3.7	5.3	8.9		13	
4/25/2017							4
7/13/2017		4.2					4
10/10/2017	6.9	3.4	5.3	8.3		14	4
6/12/2018	6.7	4.6	5.1				4
6/13/2018				7		13	
10/9/2018	7.1	4.5	5.6				
10/10/2018				6.9		14	4.2
12/5/2018		4.1					
1/29/2019					4.51		
3/25/2019	6.8	3.4	4.7		4.4		
3/26/2019				5.8		13	3.8
9/10/2019	7	3.5	5.1	6	4.2	13	4.1
3/9/2020	7.4	4.5					
3/10/2020			5.4	5.1	4	14	4.1
9/16/2020	7	4.6	5.2	4.3	3.7		5.1
9/17/2020						14	
3/23/2021	7.8	3.8		4	4.1		
3/24/2021			5.5			14	5.7
8/23/2021	7.3	4.4					
8/24/2021			5.5	4	3.9		
8/25/2021						14	4.9
2/22/2022	7.1	3.1	5.1	4	3.3	13	4
8/2/2022	7.4	3.4	3.5	2.6	2.8		4.9
8/3/2022						13	
2/7/2023	7	4.2	4.7	3.1	3.2		4.2
2/8/2023						12	
8/1/2023	7.4	3.3	5.2	3.3	3.4	13	
8/2/2023							4.5
2/6/2024	7.2	3.3	4.9	3.1	3.2	12	
2/7/2024							4.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			13	10.1		
5/6/2016	41	12.5				
6/21/2016	20	13	13	10		
8/15/2016			14	9.5		
8/16/2016	20	13				
9/28/2016			13	9.2		
9/29/2016	19	13				
11/16/2016	20	14	13	9.5		
1/17/2017		14	13	10		
1/18/2017	18					
3/2/2017	18	13	13	9.3		
4/18/2017		13	12	10		
4/19/2017	17					
10/10/2017	16	14	12	11		
6/13/2018	16	13	12	11		
10/10/2018	15	14	12	10		
12/5/2018			11			
3/26/2019	14	14	11	11		
9/10/2019	13	13	9.9	10		
3/10/2020	12	15	10	12		
9/16/2020	12					
9/17/2020		14	9.6	10		
3/24/2021	13	14	10	18		
8/24/2021	13	14				
8/25/2021			9.9	11		
2/23/2022	13	14	9.8	11		
8/3/2022		13	11			
8/4/2022	12			13		
2/7/2023		11				
2/8/2023	11		11	13		
8/1/2023		12		13		
8/2/2023	12		11			
2/6/2024			10			
2/7/2024	12	11		13		
12/9/2024					16	16

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	0.00249 (J)		<0.002	<0.002			
5/6/2016						<0.002	
6/20/2016	0.0026 (J)	0.00066 (J)	0.00024 (J)				
6/21/2016				<0.002		<0.002	<0.002
8/15/2016	0.0029	<0.002	<0.002	<0.002			
8/16/2016						<0.002	<0.002
9/28/2016	0.0027	<0.002	<0.002	<0.002		<0.002	
9/29/2016							<0.002
11/16/2016	0.0026	<0.002	<0.002	<0.002		<0.002	<0.002
1/16/2017	0.0029						
1/17/2017		<0.002	<0.002	<0.002			
1/18/2017							<0.002
1/19/2017						<0.002	
3/2/2017	0.0063	0.003	0.0032	0.0032		0.0036	0.0032
4/18/2017	0.0031	<0.002	<0.002	<0.002		<0.002	
4/25/2017							<0.002
7/13/2017		<0.002					<0.002
3/29/2018	0.0039	<0.002	<0.002	<0.002		<0.002	<0.002
6/12/2018	0.0038	<0.002	<0.002				<0.002
6/13/2018				<0.002		<0.002	
10/9/2018	0.0037	<0.002	<0.002				
10/10/2018				<0.002		<0.002	<0.002
1/28/2019	0.00545	<0.002					
1/29/2019			<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020	0.0044	<0.002	<0.002	<0.002	<0.002		<0.002
1/29/2020						<0.002	
3/9/2020	0.0042	<0.002					
3/10/2020			<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020	0.0039	<0.002	<0.002	<0.002	<0.002		0.029
9/17/2020						<0.002	
3/23/2021	0.0043	<0.002		<0.002	<0.002		
3/24/2021			<0.002			<0.002	<0.002
8/23/2021	0.0045	<0.002					
8/24/2021			<0.002	<0.002	<0.002		
8/25/2021						<0.002	<0.002
2/22/2022	0.0039	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/2/2022	0.003	<0.002	<0.002	<0.002	<0.002		<0.002
8/3/2022						<0.002	
2/7/2023	0.0053	<0.002	<0.002	<0.002	<0.002		0.0012 (J)
2/8/2023						0.0014 (J)	
8/1/2023	0.0044	<0.002	<0.002	<0.002	<0.002	<0.002	
8/2/2023							<0.002
2/6/2024	0.0066	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2024							<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.002	<0.002
5/6/2016	<0.002	<0.002		
6/21/2016	<0.002	<0.002	<0.002	<0.002
8/15/2016			<0.002	<0.002
8/16/2016	<0.002	<0.002		
9/28/2016			<0.002	<0.002
9/29/2016	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002
1/17/2017		<0.002	<0.002	<0.002
1/18/2017	<0.002			
3/2/2017	0.0033	0.003	0.0034	0.0031
4/18/2017		<0.002	<0.002	<0.002
4/19/2017	<0.002			
3/29/2018			<0.002	
3/30/2018	<0.002	<0.002		<0.002
6/13/2018	<0.002	<0.002	<0.002	<0.002
10/10/2018	<0.002	<0.002	<0.002	<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002
1/28/2020			0.0015 (J)	
1/29/2020	<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002
9/16/2020	<0.002			
9/17/2020		<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002
8/24/2021	<0.002	<0.002		
8/25/2021			<0.002	<0.002
2/23/2022	<0.002	<0.002	<0.002	<0.002
8/3/2022		<0.002	<0.002	
8/4/2022	<0.002			<0.002
2/7/2023		<0.002		
2/8/2023	<0.002		0.0013 (J)	0.0013 (J)
8/1/2023		<0.002		<0.002
8/2/2023	<0.002		<0.002	
2/6/2024			<0.002	
2/7/2024	<0.002	<0.002		<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.0025		<0.0025	<0.0025			
5/6/2016						<0.0025	
6/20/2016	0.00018 (J)	3.9E-05 (J)	1.2E-05 (J)				
6/21/2016				0.0003 (J)		0.0012 (J)	<0.0025
8/15/2016	<0.0025	<0.0025	<0.0025	0.00049 (J)			
8/16/2016						0.00047 (J)	<0.0025
9/28/2016	<0.0025	<0.0025	<0.0025	0.00043 (J)		0.00058 (J)	
9/29/2016							<0.0025
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
1/16/2017	<0.0025						
1/17/2017		<0.0025	<0.0025	<0.0025			
1/18/2017							<0.0025
1/19/2017						0.0004 (J)	
3/2/2017	<0.0025	<0.0025	<0.0025	0.00046 (J)		<0.0025	<0.0025
4/18/2017	<0.0025	<0.0025	<0.0025	0.00044 (J)		<0.0025	
4/25/2017							<0.0025
7/13/2017		<0.0025					<0.0025
3/29/2018	<0.0025	<0.0025	<0.0025	0.00065 (J)		<0.0025	<0.0025
6/12/2018	<0.0025	<0.0025	<0.0025				<0.0025
6/13/2018				<0.0025		<0.0025	
10/9/2018	<0.0025	<0.0025	<0.0025				
10/10/2018				0.00051 (J)		<0.0025	<0.0025
12/4/2018			<0.0025				
12/5/2018	<0.0025	<0.0025		0.00046 (J)			<0.0025
12/6/2018						<0.0025	
1/28/2019	<0.0025	<0.0025					
1/29/2019			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/25/2019	<0.0025	<0.0025	<0.0025		<0.0025		
3/26/2019				<0.0025		<0.0025	<0.0025
9/10/2019	0.00011 (J)	<0.0025	<0.0025	0.00037 (J)	0.0002 (J)	0.00032 (J)	0.00016 (J)
1/28/2020	<0.0025	<0.0025	<0.0025	0.00041 (J)	0.00024 (J)		<0.0025
1/29/2020						0.00027 (J)	
3/9/2020	<0.0025	<0.0025					
3/10/2020			<0.0025	0.00038 (J)	0.00032 (J)	<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.00038 (J)		0.0015 (J)
9/17/2020						0.0002 (J)	
3/23/2021	0.00014 (J)	<0.0025		0.00025 (J)	0.00036 (J)		
3/24/2021			<0.0025			<0.0025	<0.0025
8/23/2021	<0.0025	<0.0025					
8/24/2021			<0.0025	<0.0025	0.0017 (J)		
8/25/2021						0.00018 (J)	<0.0025
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	0.00049 (J)	<0.0025	<0.0025
8/2/2022	<0.0025	<0.0025	0.012 (o)	0.0003 (J)	0.00034 (J)		<0.0025
8/3/2022						<0.0025	
2/7/2023	<0.0025	<0.0025	<0.0025	0.00023 (J)	0.00069 (J)		<0.0025
2/8/2023						<0.0025	
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	0.00045 (J)	<0.0025	
8/2/2023							<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	0.00069 (J)	0.00024 (J)	
2/7/2024							<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			0.0036 (J)	0.00359 (J)		
5/6/2016	0.00311 (J)	<0.0025				
6/21/2016	0.0031 (J)	0.0006 (J)	0.0097 (J)	0.0033 (J)		
8/15/2016			0.0098	0.0038		
8/16/2016	0.0034	0.00064 (J)				
9/28/2016			0.0095	0.0043		
9/29/2016	0.0032	0.00054 (J)				
11/16/2016	0.0032	0.00041 (J)	0.0094	0.004		
1/17/2017		0.00051 (J)	0.0099	0.0051		
1/18/2017	0.0032					
3/2/2017	0.0042	0.00064 (J)	0.013	0.0064		
4/18/2017		0.00057 (J)	0.0086	0.005		
4/19/2017	0.0035					
3/29/2018			0.0088			
3/30/2018	0.0037	0.00068 (J)		0.015		
6/13/2018	0.0035	0.00048 (J)	0.0093	0.014		
10/10/2018	0.0034	0.00063 (J)	0.012	0.018		
12/5/2018			0.012	0.02		<0.0025
12/6/2018	0.0031	0.00058 (J)			<0.0025	
1/29/2019	0.00293	<0.0025	0.0103	0.0159		
3/26/2019	0.003	<0.0025	0.009	0.02		
9/10/2019	0.0027	0.00065	0.011	0.019		
1/28/2020			0.008			
1/29/2020	0.003	0.00067		0.025		
3/10/2020	0.0024 (J)	0.0005 (J)	0.0081	0.017		
9/16/2020	0.002 (J)					
9/17/2020		0.00053 (J)	0.0098	0.024		
3/24/2021	0.0019 (J)	0.00053 (J)	0.0063	0.002 (J)		
8/24/2021	0.0018 (J)	0.00034 (J)				
8/25/2021			0.0032	0.021		
2/23/2022	0.0016 (J)	0.0012 (J)	0.007	0.015	0.00055 (J)	
8/3/2022		0.00051 (J)	0.0044			
8/4/2022	0.0013 (J)			0.0092	0.00025 (J)	
2/7/2023		0.0025				
2/8/2023	0.0012 (J)		0.0044	0.0019 (J)		
8/1/2023		0.00054 (J)		0.0015 (J)		
8/2/2023	0.0011 (J)		0.0031			
2/6/2024			0.0037			
2/7/2024	0.00099 (J)	0.00065 (J)		0.0005 (J)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/20/2025 10:49 AM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			0.75	1.21
5/6/2016	0.633	1.41		
6/21/2016	1.19 (U)	1.71	1.01	0.895 (U)
8/15/2016			1.3	1.64
8/16/2016	0.516	1.75		
9/28/2016			1.06	2.17
9/29/2016	0.665	1.43		
11/16/2016	0.694	1.9	0.855	1.49
1/17/2017		1.9	1.59	1.75
1/18/2017	0.688			
3/2/2017	0.484	1.37	1.4	1.03
4/18/2017		1.42	0.684	1.83
4/19/2017	0.599			
3/29/2018			0.822	
3/30/2018	0.677	1.43		2.15
6/13/2018	0.272 (U)	1.27	0.716	1.51
10/10/2018	0.336	1.54	1.51	2.72
1/29/2019	0.719	1.34	1.7	1.93
3/26/2019	0.41 (U)	1.25	0.784	1.79
9/10/2019	0.548	1.6	0.958	1.78
1/28/2020			1.38	
1/29/2020	0.0985 (U)	1.44		1.61
3/10/2020	0.589	1.32	0.903	1.95
9/16/2020	1.11			
9/17/2020		0.666 (U)	1.28	1.56
12/8/2020		1.65		
3/24/2021	0.625	1.58	1.2	0.636
8/24/2021	0.313 (U)	1.65		
8/25/2021			0.767	2.13
2/23/2022	0.598	1.47	1.42	2.62
8/3/2022		2.56	1.11	
8/4/2022	0.632			1.24
2/7/2023		2.14		
2/8/2023	0.799		1.88	1.11
8/1/2023		2.07		0.872
8/2/2023	1.09		1.46	
2/6/2024			1.52	
2/7/2024	1.1	1.8		0.929

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	0.046 (J)		0.132 (J)	0.091 (J)			
5/6/2016						0.28 (J)	
6/20/2016	<0.1	0.06 (J)	0.05 (J)				
6/21/2016				0.08 (J)		0.36	0.14 (J)
8/15/2016	<0.1	0.1 (J)	0.1 (J)	<0.2			
8/16/2016						0.27	0.29
9/28/2016	<0.1	0.097 (J)	0.11 (J)	0.084 (J)		0.26	
9/29/2016							0.26
11/16/2016	<0.1	0.12 (J)	0.093 (J)	0.084 (J)		0.24	0.25
1/16/2017	<0.1						
1/17/2017		0.11 (J)	0.095 (J)	0.099 (J)			
1/18/2017							0.26
1/19/2017						0.22	
3/2/2017	0.12 (J)	0.18 (J)	0.16 (J)	0.15 (J)		0.27	0.28
4/18/2017	<0.1	0.11 (J)	<0.1	<0.2		0.2	
4/25/2017							0.25
7/13/2017		0.12 (J)					0.21
10/10/2017	<0.1	0.086 (J)	<0.1	<0.2		0.18 (J)	0.22
3/29/2018	<0.1	<0.1	0.084 (J)	<0.2		0.16 (J)	0.23
6/12/2018	<0.1	0.16 (J)	<0.1				0.23
6/13/2018				<0.2		0.14 (J)	
10/9/2018	<0.1	0.16 (J)	0.086 (J)				
10/10/2018				<0.2		0.17 (J)	0.25
1/29/2019					<0.1		
3/25/2019	<0.1	0.087 (J)	0.072 (J)		0.067 (J)		
3/26/2019				0.065 (J)		0.16	0.22
9/10/2019	0.044 (J)	0.075 (J)	0.068 (J)	0.076 (J)	0.052 (J)	0.098 (J)	0.2
3/9/2020	0.061 (J)	0.19					
3/10/2020			0.055 (J)	0.045 (J)	0.048 (J)	0.086 (J)	0.15
9/16/2020	0.042 (J)	0.18	0.08 (J)	0.076 (J)	0.078 (J)		0.26
9/17/2020						0.15	
3/23/2021	0.038 (J)	0.081 (J)		0.082 (J)	0.096 (J)		
3/24/2021			0.091 (J)			0.27	0.27
8/23/2021	0.048 (J)	0.12					
8/24/2021			0.1	0.1	0.11		
8/25/2021						0.097 (J)	0.19
2/22/2022	<0.1	<0.1	<0.1	0.034 (J)	<0.1	0.047 (J)	0.093 (J)
8/2/2022	<0.1	0.065 (J)	0.066 (J)	0.055 (J)	0.052 (J)		0.074 (J)
8/3/2022						0.12	
2/7/2023	<0.1	0.07 (J)	0.069 (J)	0.06 (J)	0.064 (J)		0.25
2/8/2023						0.11	
8/1/2023	<0.1	0.094 (J)	0.094 (J)	0.084 (J)	0.081 (J)	0.15	
8/2/2023							0.25
2/6/2024	<0.1	0.071 (J)	0.079 (J)	0.069 (J)	0.074 (J)	0.12	
2/7/2024							0.29

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			0.394	0.103 (J)		
5/6/2016	0.088 (J)	0.086 (J)				
6/21/2016	0.19 (J)	0.23 (J)	0.49	0.1 (J)		
8/15/2016			0.44	0.11 (J)		
8/16/2016	0.087 (J)	<0.2				
9/28/2016			0.4	0.1 (J)		
9/29/2016	<0.2	0.082 (J)				
11/16/2016	<0.2	0.087 (J)	0.36	0.091 (J)		
1/17/2017		0.086 (J)	0.2	<0.082		
1/18/2017	<0.2					
3/2/2017	0.15 (J)	0.15 (J)	0.36	0.16 (J)		
4/18/2017		<0.2	0.29	<0.082		
4/19/2017	<0.2					
10/10/2017	<0.2	<0.2	0.28	<0.082		
3/29/2018			0.23			
3/30/2018	<0.2	<0.2		0.088 (J)		
6/13/2018	<0.2	<0.2	0.2	0.15 (J)		
10/10/2018	0.085 (J)	<0.2	0.23	0.11 (J)		
3/26/2019	0.076 (J)	0.072 (J)	0.19 (J)	0.088 (J)		
9/10/2019	0.07 (J)	0.073 (J)	0.15	0.083 (J)		
3/10/2020	0.05 (J)	0.058 (J)	0.18	0.084 (J)		
9/16/2020	0.076 (J)					
9/17/2020		0.083 (J)	0.25	0.11		
3/24/2021	0.11	0.092 (J)	0.35	0.11		
8/24/2021	0.095 (J)	0.11				
8/25/2021			0.15	0.038 (J)		
2/23/2022	0.075 (J)	0.086 (J)	0.22	0.05 (J)		
8/3/2022		0.079 (J)	0.2			
8/4/2022	0.072 (J)			0.087 (J)		
2/7/2023		0.076 (J)				
2/8/2023	0.074 (J)		0.14	0.084 (J)		
8/1/2023		0.1		0.11		
8/2/2023	0.087 (J)		0.2			
2/6/2024			0.17			
2/7/2024	0.081 (J)	0.089 (J)		0.063 (J)		
12/9/2024					<1	<1

Time Series

Constituent: Lead (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.001		<0.001	<0.001			
5/6/2016						<0.001	
6/20/2016	<0.001	8.7E-05 (J)	<0.001				
6/21/2016				<0.001		<0.001	0.0001 (J)
8/15/2016	<0.001	<0.001	<0.001	<0.001			
8/16/2016						<0.001	<0.001
9/28/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
9/29/2016							<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
1/16/2017	<0.001						
1/17/2017		<0.001	<0.001	<0.001			
1/18/2017							<0.001
1/19/2017						<0.001	
3/2/2017	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
4/18/2017	<0.001	<0.001	<0.001	<0.001		<0.001	
4/25/2017							<0.001
7/13/2017		<0.001					<0.001
3/29/2018	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
1/28/2019	<0.001	<0.001					
1/29/2019			<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001	0.00016 (J)	0.00018 (J)	<0.001	<0.001		<0.001
1/29/2020						<0.001	
3/9/2020	<0.001	<0.001					
3/10/2020			<0.001	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/17/2020						<0.001	
3/23/2021	0.00013 (J)	0.00013 (J)		<0.001	<0.001		
3/24/2021			<0.001			<0.001	<0.001
8/23/2021	<0.001	<0.001					
8/24/2021			<0.001	<0.001	<0.001		
8/25/2021						<0.001	<0.001
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/3/2022						<0.001	
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/8/2023						<0.001	
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/2/2023							<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/7/2024							<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.001	<0.001
5/6/2016	<0.001	<0.001		
6/21/2016	<0.001	<0.001	0.0003 (J)	<0.001
8/15/2016			<0.001	<0.001
8/16/2016	<0.001	<0.001		
9/28/2016			<0.001	<0.001
9/29/2016	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001
1/17/2017		<0.001	<0.001	<0.001
1/18/2017	<0.001			
3/2/2017	<0.001	<0.001	<0.001	<0.001
4/18/2017		<0.001	<0.001	<0.001
4/19/2017	<0.001			
3/29/2018			<0.001	
3/30/2018	<0.001	<0.001		<0.001
1/29/2019	<0.001	<0.001	<0.001	<0.001
1/28/2020			<0.001	
1/29/2020	<0.001	<0.001		<0.001
3/10/2020	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001			
9/17/2020		<0.001	<0.001	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001
8/24/2021	<0.001	<0.001		
8/25/2021			0.00019 (J)	0.00022 (J)
2/23/2022	<0.001	<0.001	<0.001	<0.001
8/3/2022		<0.001	0.00021 (J)	
8/4/2022	<0.001			<0.001
2/7/2023		<0.001		
2/8/2023	<0.001		<0.001	<0.001
8/1/2023		<0.001		<0.001
8/2/2023	<0.001		<0.001	
2/6/2024			<0.001	
2/7/2024	0.00027 (J)	<0.001		<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.05		<0.05	<0.005			
5/6/2016						0.0128 (J)	
6/20/2016	0.0071 (J)	0.014 (J)	0.0065 (J)				
6/21/2016				<0.005		0.0102 (J)	0.0112 (J)
8/15/2016	0.0065	0.02	0.0059	<0.005			
8/16/2016						0.012	0.014
9/28/2016	0.0075	0.019	0.0075	<0.005		0.012	
9/29/2016							0.017
11/16/2016	0.0081	0.021	0.0094	<0.005		0.013	0.016
1/16/2017	0.0076						
1/17/2017		0.02	0.01	<0.005			
1/18/2017							0.015
1/19/2017						0.011	
3/2/2017	0.0073	0.019	0.0076	<0.005		0.013	0.015
4/18/2017	0.006	0.016	0.008	<0.005		0.0097	
4/25/2017							0.013
7/13/2017		0.011					0.014
3/29/2018	0.01 (J)	0.03 (J)	0.014 (J)	<0.005		0.017 (J)	0.032 (J)
6/12/2018	0.0068	0.012	0.0095				0.019
6/13/2018				<0.005		0.0094	
10/9/2018	0.0082	0.015	0.011				
10/10/2018				<0.005		0.011	0.027
12/4/2018			0.011				
12/5/2018	0.0089	0.017		0.0012 (J)			0.026
12/6/2018						0.01	
1/28/2019	0.00821	0.0124					
1/29/2019			0.00987	<0.005	0.0184	0.0109	0.0172
3/25/2019	0.0068	0.026	0.01		0.0052		
3/26/2019				<0.005		0.01	0.02
9/10/2019	0.011	0.026	0.011	0.0051	0.0062	0.012	0.023
1/28/2020	0.0064	0.026	0.0093	<0.005	<0.005		0.022
1/29/2020						0.0096	
3/9/2020	0.0088	0.017					
3/10/2020			0.011	<0.005	<0.005	<0.025	0.018
9/16/2020	0.0079	0.014	0.0094	<0.005	<0.005		0.025
9/17/2020						0.0086	
3/23/2021	0.0084	0.026		<0.005	<0.005		
3/24/2021			0.0097			0.013	0.018
8/23/2021	0.0075	0.018					
8/24/2021			0.0093	<0.005	<0.005		
8/25/2021						0.0096	0.017
2/22/2022	0.0079	0.027	0.011	<0.005	0.0012 (J)	0.01	0.022
8/2/2022	0.0071	0.025	0.0097	<0.005	<0.005		0.026
8/3/2022						0.01	
2/7/2023	0.0081	0.022	0.011	<0.005	<0.005		0.024
2/8/2023						0.01	
8/1/2023	0.0053	0.024	0.0077	<0.005	<0.005	0.0084	
8/2/2023							0.019
2/6/2024	0.0083	0.037	0.0058	0.006	<0.005	0.0084	
2/7/2024							0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			0.0586	0.0252 (J)		
5/6/2016	<0.05	0.0113 (J)				
6/21/2016	0.0047 (J)	0.0103 (J)	0.122	0.0228 (J)		
8/15/2016			0.12	0.026		
8/16/2016	0.0043 (J)	0.01				
9/28/2016			0.12	0.026		
9/29/2016	0.0048 (J)	0.01				
11/16/2016	0.0058	0.014	0.13	0.031		
1/17/2017		0.014	0.14	0.032		
1/18/2017	0.0051					
3/2/2017	0.0061	0.013	0.13	0.031		
4/18/2017		0.01	0.11	0.023		
4/19/2017	0.0042 (J)					
3/29/2018			0.17 (J)			
3/30/2018	0.008 (J)	0.017 (J)		0.058 (J)		
6/13/2018	0.0054	0.011	0.12	0.035		
10/10/2018	0.0055	0.013	0.13	0.046		
12/5/2018			0.14	0.043		0.0029 (J)
12/6/2018	0.0066	0.015			0.0053	
1/29/2019	0.00537	0.0106	0.112	0.0361		
3/26/2019	0.0051	0.012	0.12	0.043		
9/10/2019	0.0074	0.015	0.11	0.042		
1/28/2020			0.13			
1/29/2020	0.0059	0.012		0.037		
3/10/2020	0.0068	0.014	0.11	0.028		
9/16/2020	0.0055					
9/17/2020		0.012	0.11	0.039		
3/24/2021	0.0066	0.013	0.13	0.011		
8/24/2021	0.0062	0.012				
8/25/2021			0.12	0.037		
2/23/2022	0.0066	0.013	0.13	0.028	0.0066	
8/3/2022		0.013	0.13			
8/4/2022	0.0063			0.021	0.011	
2/7/2023		0.014				
2/8/2023	0.0065		0.14	0.012		
8/1/2023		0.011		0.012		
8/2/2023	0.0031 (J)		0.13			
2/6/2024			0.12			
2/7/2024	0.0051	0.0081		0.0076		
12/9/2024					0.0029 (J)	0.0051

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.0002		<0.0002	<0.0002			
5/6/2016						<0.0002	
6/20/2016	<0.0002	<0.0002	<0.0002				
6/21/2016				<0.0002		<0.0002	<0.0002
8/15/2016	<0.0002	8E-05 (J)	<0.0002	<0.0002			
8/16/2016						<0.0002	<0.0002
9/28/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
9/29/2016							<0.0002
11/16/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	8.6E-05 (J)
1/16/2017	<0.0002						
1/17/2017		<0.0002	<0.0002	<0.0002			
1/18/2017							<0.0002
1/19/2017						<0.0002	
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
4/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
4/25/2017							<0.0002
7/13/2017		<0.0002					<0.0002
3/29/2018	<0.0002	8.6E-05 (J)	<0.0002	7.4E-05 (J)		<0.0002	7.4E-05 (J)
6/12/2018	<0.0002	<0.0002	<0.0002				<0.0002
6/13/2018				<0.0002		<0.0002	
10/9/2018	<0.0002	<0.0002	<0.0002				
10/10/2018				<0.0002		<0.0002	<0.0002
1/28/2019	<0.0002	<0.0002					
1/29/2019			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/29/2020						<0.0002	
3/9/2020	<0.0002	<0.0002					
3/10/2020			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/17/2020						<0.0002	
3/23/2021	<0.0002	<0.0002		<0.0002	<0.0002		
3/24/2021			<0.0002			<0.0002	<0.0002
8/23/2021	<0.0002	<0.0002					
8/24/2021			<0.0002	<0.0002	<0.0002		
8/25/2021						<0.0002	<0.0002
2/22/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/3/2022						<0.0002	
2/7/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/8/2023						<0.0002	
8/1/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023							<0.0002
2/6/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2024							<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.0002	<0.0002
5/6/2016	<0.0002	<0.0002		
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002
8/15/2016			<0.0002	0.00015 (J)
8/16/2016	7.8E-05 (J)	<0.0002		
9/28/2016			<0.0002	<0.0002
9/29/2016	<0.0002	<0.0002		
11/16/2016	0.0001 (J)	7E-05 (J)	8E-05 (J)	0.00021
1/17/2017		<0.0002	<0.0002	7.6E-05 (J)
1/18/2017	<0.0002			
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017		<0.0002	<0.0002	0.00018 (J)
4/19/2017	<0.0002			
3/29/2018			<0.0002	
3/30/2018	<0.0002	<0.0002		0.00013 (J)
6/13/2018	<0.0002	<0.0002	<0.0002	0.00074
10/10/2018	<0.0002	<0.0002	<0.0002	0.00013 (J)
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020			<0.0002	
1/29/2020	<0.0002	<0.0002		0.00012 (J)
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002			
9/17/2020		<0.0002	<0.0002	0.00014 (J)
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2021	<0.0002	<0.0002		
8/25/2021			<0.0002	0.0041
10/26/2021				<0.0002
2/23/2022	<0.0002	<0.0002	<0.0002	0.00028
8/3/2022		<0.0002	<0.0002	
8/4/2022	<0.0002			0.00068
2/7/2023		<0.0002		
2/8/2023	<0.0002		<0.0002	0.00026
8/1/2023		<0.0002		0.00014 (J)
8/2/2023	<0.0002		<0.0002	
2/6/2024			<0.0002	
2/7/2024	<0.0002	<0.0002		0.00052

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.015		0.0026 (J)	<0.015			
5/6/2016						0.0021 (J)	
6/20/2016	0.00031 (J)	0.0052 (J)	0.0014 (J)				
6/21/2016				<0.015		0.002 (J)	0.002 (J)
8/15/2016	<0.015	0.0022 (J)	0.0013 (J)	<0.015			
8/16/2016						0.0019 (J)	0.0012 (J)
9/28/2016	<0.015	0.0018 (J)	0.0012 (J)	<0.015		0.0018 (J)	
9/29/2016							0.0014 (J)
11/16/2016	<0.015	<0.015	<0.015	<0.015		<0.075	<0.015
1/16/2017	<0.015						
1/17/2017		0.0011 (J)	<0.015	<0.015			
1/18/2017							<0.015
1/19/2017						0.0011 (J)	
3/2/2017	<0.015	<0.015	<0.015	<0.015		0.0012 (J)	<0.015
4/18/2017	<0.015	<0.015	<0.015	<0.015		0.0013 (J)	
4/25/2017							<0.015
7/13/2017		<0.015					<0.015
3/29/2018	<0.015	<0.015	<0.015	<0.015		0.0017 (J)	<0.015
6/12/2018	0.0012 (J)	0.0029 (J)	<0.015				<0.015
6/13/2018				<0.015		0.00087 (J)	
10/9/2018	<0.015	<0.015	<0.015				
10/10/2018				<0.015		<0.075	<0.015
1/28/2019	<0.015	<0.015					
1/29/2019			<0.015	<0.015	<0.015	<0.075	<0.015
1/28/2020	0.00064 (J)	0.00085 (J)	0.00095 (J)	<0.015	0.0014 (J)		<0.015
1/29/2020						0.0015 (J)	
3/9/2020	<0.015	0.0012 (J)					
3/10/2020			0.00093 (J)	<0.015	0.0012 (J)	<0.075	<0.015
9/16/2020	0.0022 (J)	0.0019 (J)	0.00079 (J)	<0.015	0.0014 (J)		0.0024 (J)
9/17/2020						0.0012 (J)	
3/23/2021	<0.015	0.00093 (J)		<0.015	0.00089 (J)		
3/24/2021			0.00089 (J)			0.0029 (J)	<0.015
8/23/2021	0.0016 (J)	0.0012 (J)					
8/24/2021			<0.015	<0.015	0.0011 (J)		
8/25/2021						0.00088 (J)	<0.015
2/22/2022	<0.015	0.001 (J)	0.00091 (J)	<0.015	0.00078 (J)	0.0014 (J)	0.00064 (J)
8/2/2022	<0.015	<0.015	<0.015	<0.015	0.0015 (J)		0.00093 (J)
8/3/2022						0.0011 (J)	
2/7/2023	<0.015	0.00098 (J)	<0.015	<0.015	<0.015		<0.015
2/8/2023						0.0012 (J)	
8/1/2023	<0.015	<0.015	<0.015	<0.015	0.0014 (J)	0.0012 (J)	
8/2/2023							<0.015
2/6/2024	<0.015	<0.015	<0.015	<0.015	<0.015	0.00099 (J)	
2/7/2024							<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			0.00351 (J)	<0.015
5/6/2016	<0.015	<0.015		
6/21/2016	<0.015	<0.015	<0.015	<0.015
8/15/2016			<0.015	<0.015
8/16/2016	<0.015	<0.015		
9/28/2016			<0.015	<0.015
9/29/2016	<0.015	<0.015		
11/16/2016	<0.015	<0.015	<0.015	<0.015
1/17/2017		<0.015	<0.015	<0.015
1/18/2017	<0.015			
3/2/2017	<0.015	<0.015	<0.015	<0.015
4/18/2017		<0.015	<0.015	0.0037 (J)
4/19/2017	<0.015			
3/29/2018			<0.015	
3/30/2018	<0.015	<0.015		<0.015
6/13/2018	<0.015	<0.015	<0.015	<0.015
10/10/2018	<0.015	<0.015	<0.015	<0.015
1/29/2019	<0.015	<0.015	<0.015	<0.015
1/28/2020			<0.015	
1/29/2020	<0.015	<0.015		<0.015
3/10/2020	<0.015	<0.015	<0.015	<0.015
9/16/2020	<0.015			
9/17/2020		<0.015	<0.015	<0.015
3/24/2021	<0.015	<0.015	<0.015	<0.015
8/24/2021	<0.015	<0.015		
8/25/2021			<0.015	<0.015
2/23/2022	<0.015	<0.015	<0.015	<0.015
8/3/2022		<0.015	<0.015	
8/4/2022	<0.015			<0.015
2/7/2023		<0.015		
2/8/2023	<0.015		<0.015	<0.015
8/1/2023		<0.015		<0.015
8/2/2023	<0.015		<0.015	
2/6/2024			<0.015	
2/7/2024	<0.015	<0.015		<0.015

Time Series

Constituent: pH (SU) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			7.81	5.96		
5/6/2016	7.41	6.85				
6/21/2016	7.41	6.98	7.2	6		
8/15/2016			7.04	5.26		
8/16/2016	7.33	6.73				
9/28/2016			7	5.66		
9/29/2016	7.42	6.81				
11/16/2016	7.87	6.69	6.73	5.33		
1/17/2017		6.77	6.61	5.24		
1/18/2017	7.49					
3/2/2017	7.37	6.79	6.62	5.21		
4/18/2017		6.77	6.7	5.85		
4/19/2017	7.48					
10/10/2017	7.29	7	6.48	5.6		
3/29/2018			6.46			
3/30/2018	7.31	6.68		5.16		
6/13/2018	7.37	6.83	6.24	5.79		
10/10/2018	7.41 (D)	6.69 (D)	6.12 (D)	5.15 (D)		
12/5/2018						7.55
12/6/2018					6.52	
1/29/2019	7.03 (D)	6.42 (D)	5.93 (D)	5.46 (D)		
3/26/2019	6.68 (D)	5.96 (D)	5.19 (D)	7.14 (D)		
9/10/2019	7.26	6.67	6.03	5.1		
1/28/2020			6.61			
1/29/2020	7.3	6.68		5.76		
3/10/2020	7.3	6.87	6.54	5.5		
9/16/2020	7.16					
9/17/2020		6.68	6.39	5.22		
12/8/2020		7.04				
3/24/2021	7.24	6.73	6.26	6.71		
8/24/2021	7.42	6.92				
8/25/2021			6.85	5.26		
10/26/2021				5.99		
2/23/2022	7.44	6.98	6.91	6.22	6.02	
8/3/2022		6.91	6.86			
8/4/2022	7.37			6.5	6.18 (D)	
2/7/2023		7.01				
2/8/2023	7.44		7.43	6.76		
8/1/2023		7.09		6.77		
8/2/2023	7.31		6.9			
2/6/2024			7.81			
2/7/2024	7.71	7.49		7		
12/9/2024					6.18	7.51

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.005		<0.005	<0.005			
5/6/2016						<0.005	
6/20/2016	<0.005	<0.005	<0.005				
6/21/2016				<0.005		<0.005	<0.005
8/15/2016	0.00062 (J)	<0.005	<0.005	<0.005			
8/16/2016						<0.005	<0.005
9/28/2016	0.0003 (J)	<0.005	<0.005	<0.005		<0.005	
9/29/2016							<0.005
11/16/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
1/16/2017	<0.005						
1/17/2017		<0.005	<0.005	<0.005			
1/18/2017							<0.005
1/19/2017						<0.005	
3/2/2017	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
4/18/2017	<0.005	<0.005	<0.005	<0.005		<0.005	
4/25/2017							<0.005
7/13/2017		<0.005					<0.005
3/29/2018	0.00027 (J)	<0.005	<0.005	<0.005		0.0005 (J)	0.00027 (J)
6/12/2018	0.00076 (J)	0.00049 (J)	<0.005				<0.005
6/13/2018				<0.005		<0.005	
10/9/2018	0.00054 (J)	<0.005	<0.005				
10/10/2018				<0.005		<0.005	<0.005
1/28/2019	<0.005	<0.005					
1/29/2019			<0.005	<0.005	<0.005	<0.005	<0.005
1/28/2020	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
1/29/2020						<0.005	
2/22/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/3/2022						<0.005	
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/8/2023						<0.005	
8/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/2/2023							<0.005
2/6/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2024							<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.005	<0.005
5/6/2016	<0.005	<0.005		
6/21/2016	<0.005	<0.005	<0.005	<0.005
8/15/2016			<0.005	0.00033 (J)
8/16/2016	<0.005	<0.005		
9/28/2016			<0.005	0.00038 (J)
9/29/2016	<0.005	<0.005		
11/16/2016	<0.005	<0.005	<0.005	<0.005
1/17/2017		<0.005	<0.005	<0.005
1/18/2017	<0.005			
3/2/2017	<0.005	<0.005	<0.005	<0.005
4/18/2017		<0.005	<0.005	0.0024
4/19/2017	<0.005			
3/29/2018			0.00026 (J)	
3/30/2018	0.00045 (J)	0.00044 (J)		0.00027 (J)
6/13/2018	<0.005	<0.005	<0.005	<0.005
10/10/2018	<0.005	<0.005	<0.005	<0.005
1/29/2019	<0.005	<0.005	<0.005	<0.005
1/28/2020			<0.005	
1/29/2020	<0.005	<0.005		<0.005
2/23/2022	<0.005	<0.005	<0.005	<0.005
8/3/2022		<0.005	<0.005	
8/4/2022	<0.005			<0.005
2/7/2023		<0.005		
2/8/2023	<0.005		<0.005	<0.005
8/1/2023		<0.005		<0.005
8/2/2023	<0.005		<0.005	
2/6/2024			<0.005	
2/7/2024	<0.005	<0.005		<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	2.46		4.47	17.8			
5/6/2016						106	
6/20/2016	2.5	1	7.7				
6/21/2016				17		210	4
8/15/2016	1.9	0.73 (J)	7.5	20			
8/16/2016						120	2.8
9/28/2016	1.9	<1.3	7.8	21		110	
9/29/2016							<1
11/16/2016	1.7	<1.3	6.7	20		130	3
1/16/2017	<1						
1/17/2017		<1.3	6.7	19			
1/18/2017							4.1
1/19/2017						160	
3/2/2017	1.4	<1.3	5.6	15		130	4.6
4/18/2017	1.3	<1.3	5.1	14		120	
4/25/2017							4.4
7/13/2017		1.4					4.8
10/10/2017	1.1	0.87 (J)	4.9	11		170	4.9
6/12/2018	0.82 (J)	4.1	3.8				4.1
6/13/2018				8.7		130	
10/9/2018	0.82 (J)	2.2	6.7				
10/10/2018				8.7		140	2.5
12/5/2018		1.2					
1/29/2019					7.08		
3/25/2019	<1	<1.3	3.4 (J)		1.8 (J)		
3/26/2019				6.3 (J)		130	2.9 (J)
9/10/2019	1.1	1.8	4.7	5.6	0.6 (J)	140	2.5
3/9/2020	4.2	3.4					
3/10/2020			5.2	5	2.4	140	7.8
9/16/2020	0.69 (J)	3	3.2	2.7	1		4.4
9/17/2020						150	
3/23/2021	<1	1.4		3.2	1.7		
3/24/2021			3.5			120	7.1
8/23/2021	<1	3.4					
8/24/2021			3.6	3.5	3.3		
8/25/2021						140	6.6
2/22/2022	<1	1.1	3.2	5.4	2.1	150	4.8
8/2/2022	<1	0.8 (J)	2.7	2.3	2.1		3.1
8/3/2022						140	
2/7/2023	<1	3.3	2.5	2.3	1.6		4.7
2/8/2023						140	
8/1/2023	0.56 (J)	1	2.9	3.2	4	140	
8/2/2023							4.6
2/6/2024	<1	0.82 (J)	2.4	2.8	2.4	140	
2/7/2024							8.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			116	144		
5/6/2016	445	94.2				
6/21/2016	290	95	170	160		
8/15/2016			170	120		
8/16/2016	270	88				
9/28/2016			170	130		
9/29/2016	280	94				
11/16/2016	280	97	170	130		
1/17/2017		100	180	150		
1/18/2017	280					
3/2/2017	240	100	180	160		
4/18/2017		91	160	180		
4/19/2017	250					
10/10/2017	240	110	180	260		
6/13/2018	220	110	180	330		
10/10/2018	220	110	190	410		
12/5/2018			190			
3/26/2019	190	110	180	420		
9/10/2019	180	110	180	420		
3/10/2020	170	130	170	370		
9/16/2020	160					
9/17/2020		120	160	380		
3/24/2021	180	130	180	280		
8/24/2021	160	130				
8/25/2021			180	420		
2/23/2022	180	150	260	390		
8/3/2022		130	220			
8/4/2022	150			350		
2/7/2023		120				
2/8/2023	150		220	280		
8/1/2023		110		280		
8/2/2023	150		200			
2/6/2024			200			
2/7/2024	150	94		310		
12/9/2024					150	290

Time Series

Constituent: TDS (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	78		129	281			
5/6/2016						282	
6/20/2016	80	188	156				
6/21/2016				303		516	177
8/15/2016	58	180	160	310			
8/16/2016						360	160
9/28/2016	29	100	91	170		190	
9/29/2016							190
11/16/2016	140	270	250	340		410	240
1/16/2017	36						
1/17/2017		170	140	310			
1/18/2017							180
1/19/2017						400	
3/2/2017	78	210	170	330		360	170
4/18/2017	16	160	140	290		360	
4/25/2017							170
7/13/2017		150					150
10/10/2017	78	210	190	310		480	160
6/12/2018	62	150	180				170
6/13/2018				230		390	
10/9/2018	68	150	170				
10/10/2018				300		260	48
1/29/2019					280		
3/25/2019	54	210	150		250		
3/26/2019				290		370	180
9/10/2019	14	160	110	260	230	360	140
3/9/2020	56	190					
3/10/2020			170	300	260	450	170
9/16/2020	44	150	150	300	320		190
9/17/2020						460	
3/23/2021	53	220		300	270		
3/24/2021			150			380	190
8/23/2021	55	200					
8/24/2021			160	300	280		
8/25/2021						470	230
2/22/2022	38	210	150	300	270	420	190
8/2/2022	65	210	270	200	100 (D)		150
8/3/2022						440	
2/7/2023	61	190	150	290	260		190
2/8/2023						400	
8/1/2023	57	300	170	330	360	450	
8/2/2023							200
2/6/2024	57	210	150	280	260	420	
2/7/2024							200

Time Series

Constituent: TDS (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20	MGWC-19
5/5/2016			272	287		
5/6/2016	661	380				
6/21/2016	692	392	356	297		
8/15/2016			330	230		
8/16/2016	650	360				
9/28/2016			180	130		
9/29/2016	640	380				
11/16/2016	680	420	330	290		
1/17/2017		380	310	240		
1/18/2017	630					
3/2/2017	660	410	340	270		
4/18/2017		360	300	310		
4/19/2017	600					
10/10/2017	600	400	340	450		
6/13/2018	570	320	320	600		
10/10/2018	470	300	270	410		
3/26/2019	530	370	320	630		
9/10/2019	470	360	260	660		
3/10/2020	540	390	370	600		
9/16/2020	530					
9/17/2020		410	320	740		
3/24/2021	490	430	330	530		
8/24/2021	510	450				
8/25/2021			390	720		
2/23/2022	490	450	390	630		
8/3/2022		430	400			
8/4/2022	480			620		
2/7/2023		410				
2/8/2023	440		370	480		
8/1/2023		420		570		
8/2/2023	520		410			
2/6/2024			350			
2/7/2024	450	370		590		
12/9/2024					320	510

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/20/2025 10:49 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWA-11 (bg)	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWC-1	MGWC-12
5/5/2016	<0.001		<0.001	<0.001			
5/6/2016						<0.001	
6/20/2016	<0.001	<0.001	<0.001				
6/21/2016				0.0001 (J)		9E-05 (J)	<0.001
8/15/2016	<0.001	<0.001	<0.001	<0.001			
8/16/2016						<0.001	<0.001
9/28/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
9/29/2016							<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
1/16/2017	<0.001						
1/17/2017		<0.001	<0.001	<0.001			
1/18/2017							<0.001
1/19/2017						<0.001	
3/2/2017	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
4/18/2017	<0.001	<0.001	<0.001	<0.001		9.5E-05 (J)	
4/25/2017							<0.001
7/13/2017		<0.001					<0.001
3/29/2018	<0.001	<0.001	<0.001	<0.001		0.00014 (J)	<0.001
6/12/2018	<0.001	<0.001	<0.001				<0.001
6/13/2018				<0.001		<0.001	
10/9/2018	<0.001	<0.001	<0.001				
10/10/2018				<0.001		<0.001	<0.001
1/28/2019	<0.001	<0.001					
1/29/2019			<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001	0.00033 (J)	<0.001	0.00027 (J)	<0.001		<0.001
1/29/2020						0.00032 (J)	
3/9/2020	0.00058 (J)	0.00036 (J)					
3/10/2020			0.00015 (J)	0.00019 (J)	<0.001	<0.001	0.00015 (J)
9/16/2020	<0.001	0.00041 (J)	0.00018 (J)	0.00021 (J)	<0.001		0.00027 (J)
9/17/2020						0.00016 (J)	
3/23/2021	0.00046 (J)	0.00051 (J)		0.00025 (J)	<0.001		
3/24/2021			<0.001			<0.001	<0.001
8/23/2021	<0.001	0.0004 (J)					
8/24/2021			<0.001	0.00017 (J)	<0.001		
8/25/2021						<0.001	<0.001
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/3/2022						<0.001	
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/8/2023						<0.001	
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/2/2023							<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/7/2024							<0.001

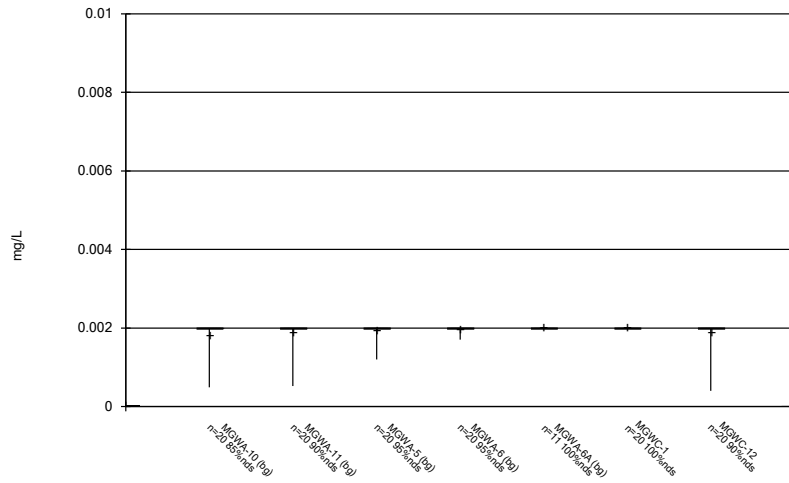
Time Series

Constituent: Thallium (mg/L) Analysis Run 1/20/2025 10:49 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016			<0.001	<0.001
5/6/2016	<0.001	<0.001		
6/21/2016	<0.001	<0.001	<0.001	0.0001 (J)
8/15/2016			<0.001	0.00016 (J)
8/16/2016	<0.001	<0.001		
9/28/2016			<0.001	0.00014 (J)
9/29/2016	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	9E-05 (J)
1/17/2017		<0.001	<0.001	0.00016 (J)
1/18/2017	<0.001			
3/2/2017	<0.001	<0.001	<0.001	0.00018 (J)
4/18/2017		<0.001	<0.001	0.00019 (J)
4/19/2017	<0.001			
3/29/2018			<0.001	
3/30/2018	<0.001	<0.001		0.00027 (J)
6/13/2018	<0.001	<0.001	<0.001	0.00027 (J)
10/10/2018	<0.001	<0.001	<0.001	0.00025 (J)
1/29/2019	<0.001	<0.001	<0.001	<0.001
1/28/2020			<0.001	
1/29/2020	0.00021 (J)	0.00037 (J)		0.00042 (J)
3/10/2020	<0.001	0.00016 (J)	<0.001	0.00025 (J)
9/16/2020	<0.001			
9/17/2020		<0.001	<0.001	0.00031 (J)
3/24/2021	<0.001	<0.001	<0.001	<0.001
8/24/2021	<0.001	<0.001		
8/25/2021			<0.001	0.0004 (J)
2/23/2022	<0.001	<0.001	<0.001	<0.001
8/3/2022		<0.001	<0.001	
8/4/2022	<0.001			<0.001
2/7/2023		<0.001		
2/8/2023	<0.001		<0.001	<0.001
8/1/2023		<0.001		<0.001
8/2/2023	<0.001		<0.001	
2/6/2024			<0.001	
2/7/2024	<0.001	<0.001		<0.001

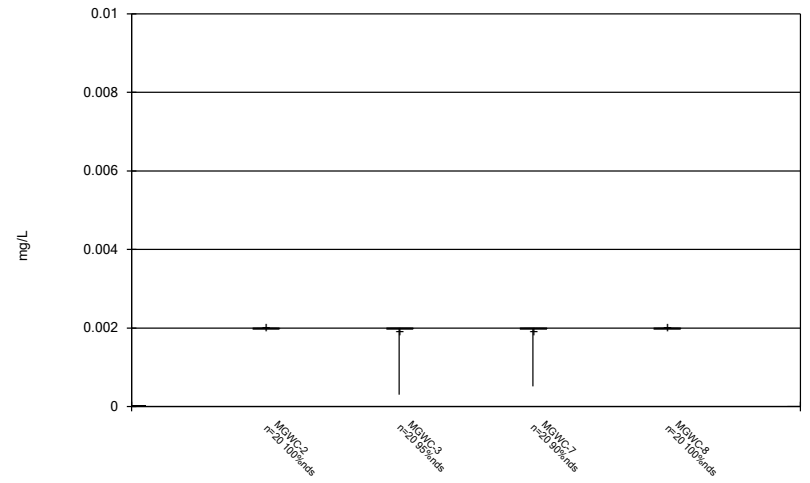
FIGURE B.

Box & Whiskers Plot



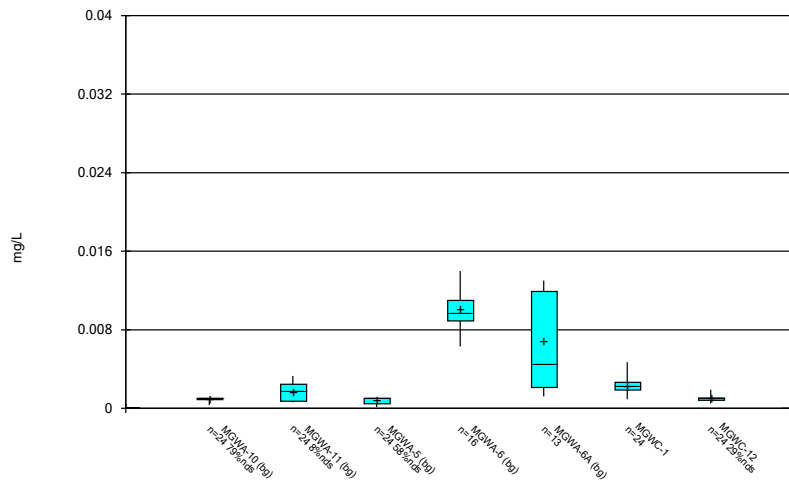
Constituent: Antimony Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



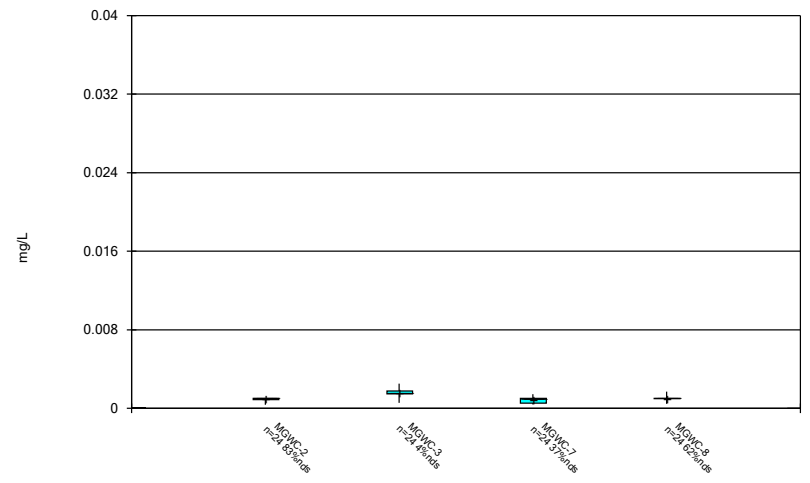
Constituent: Antimony Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



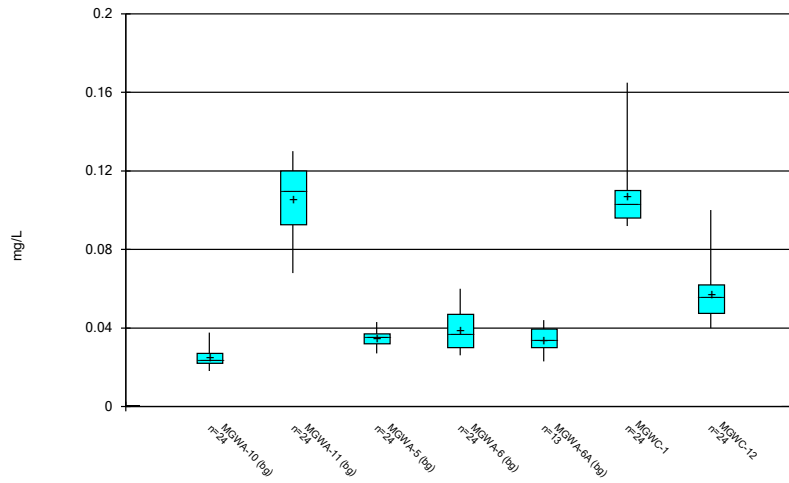
Constituent: Arsenic Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



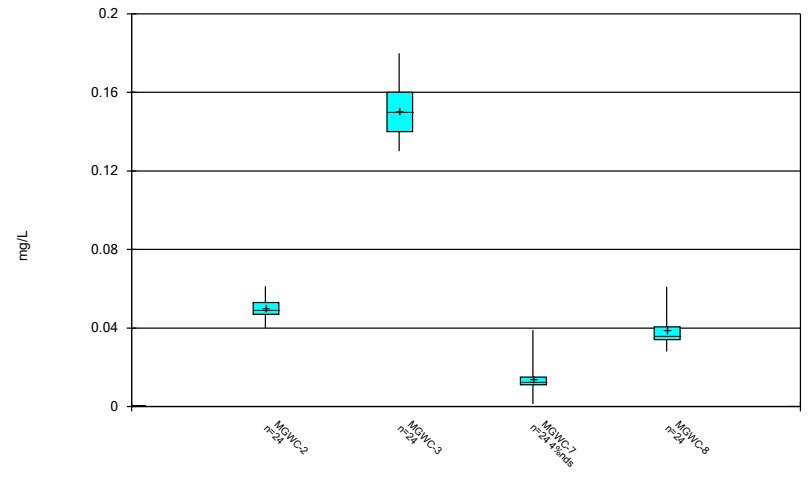
Constituent: Arsenic Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



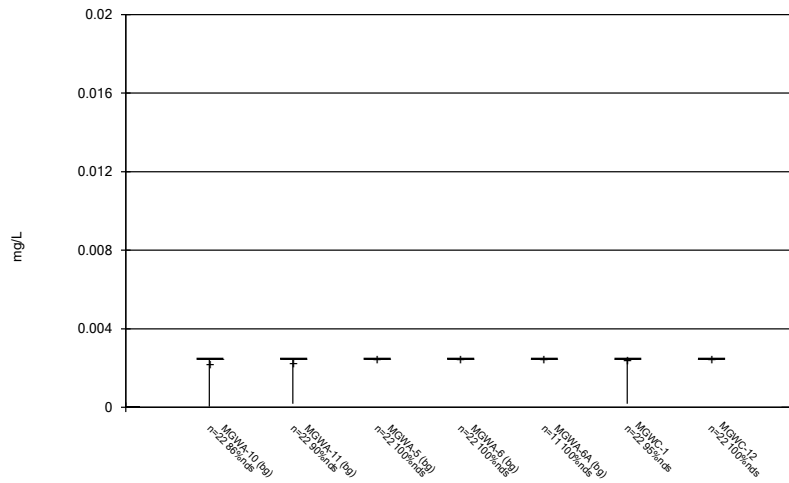
Constituent: Barium Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



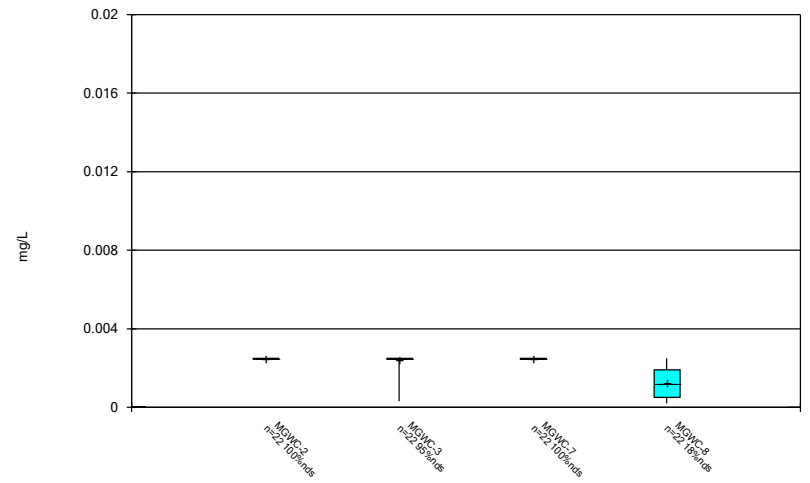
Constituent: Barium Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



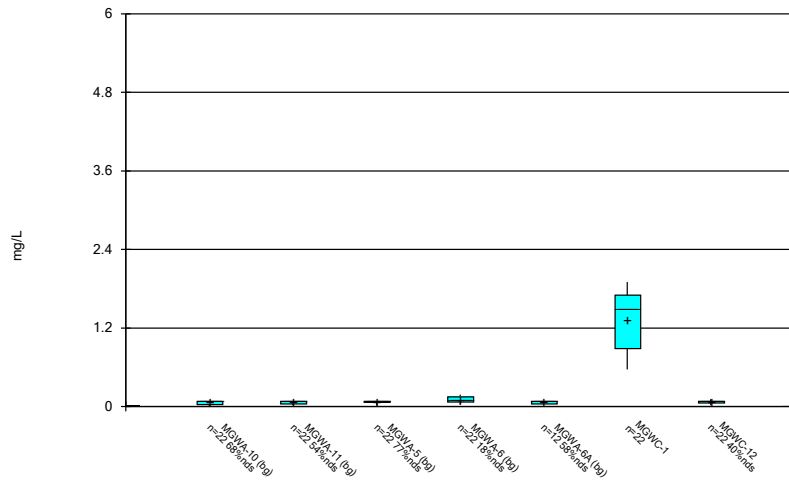
Constituent: Beryllium Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



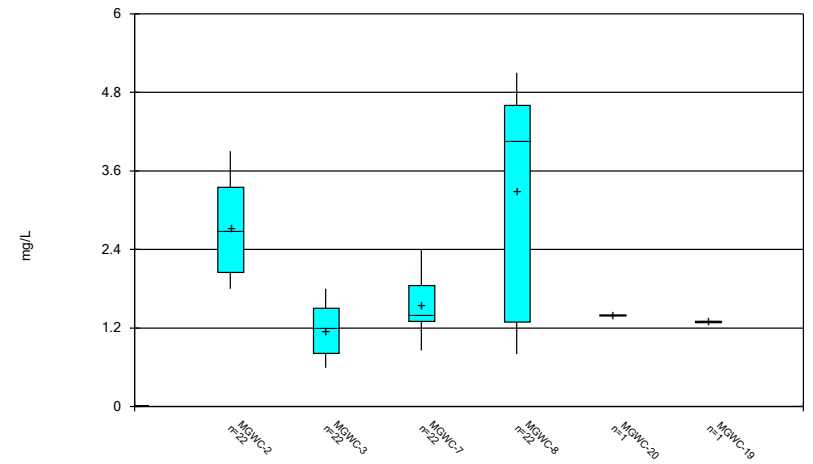
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 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



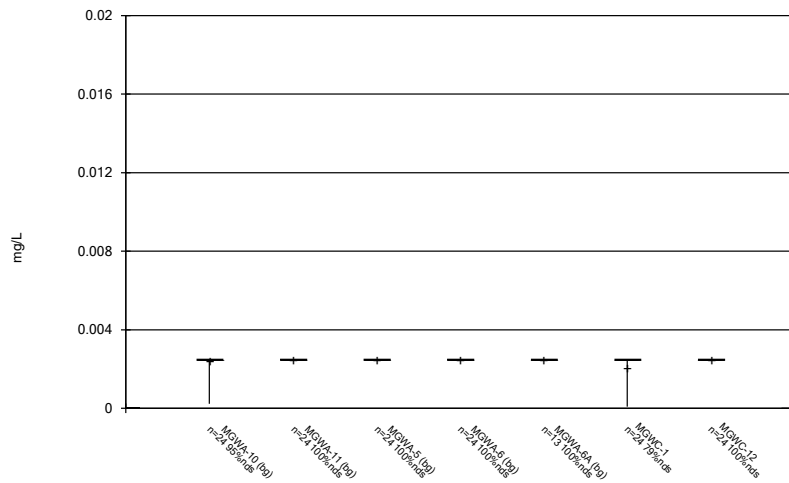
Constituent: Boron Analysis Run 1/20/2025 10:50 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



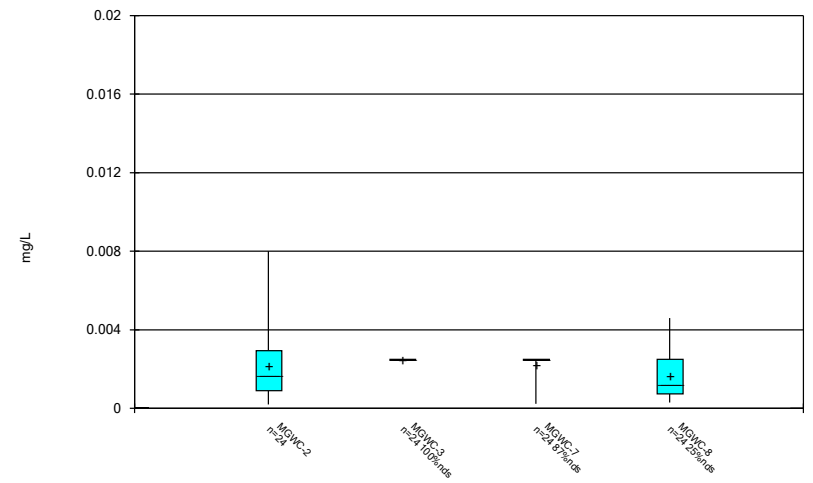
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



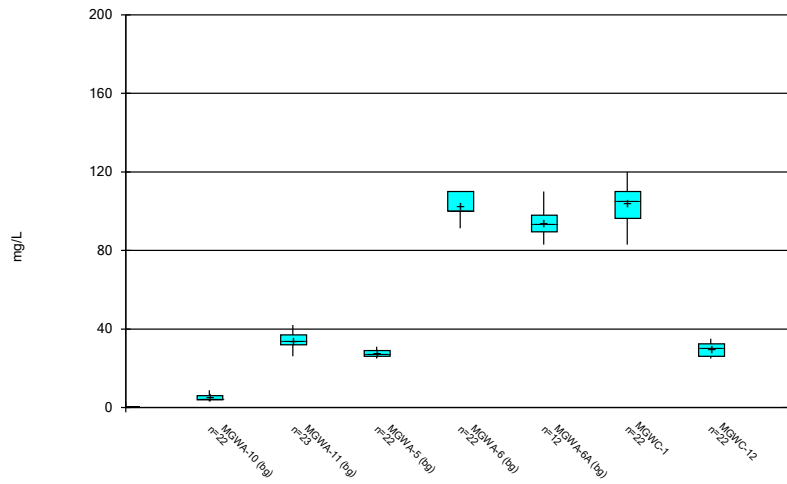
Constituent: Cadmium Analysis Run 1/20/2025 10:50 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



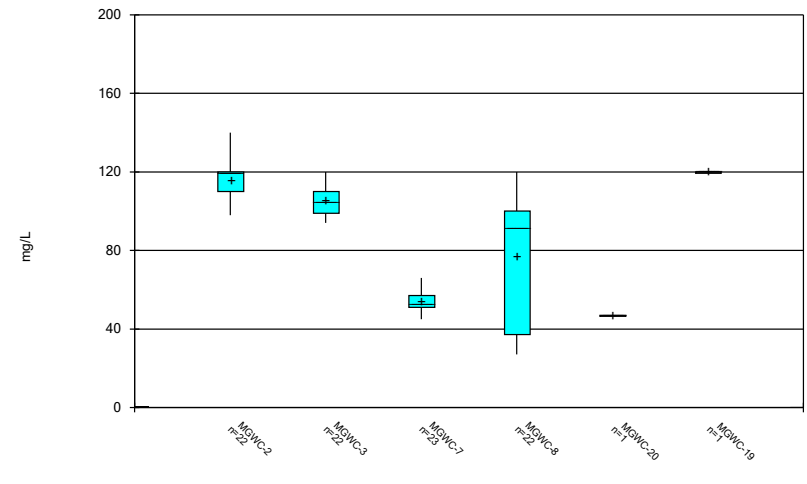
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Box & Whiskers Plot



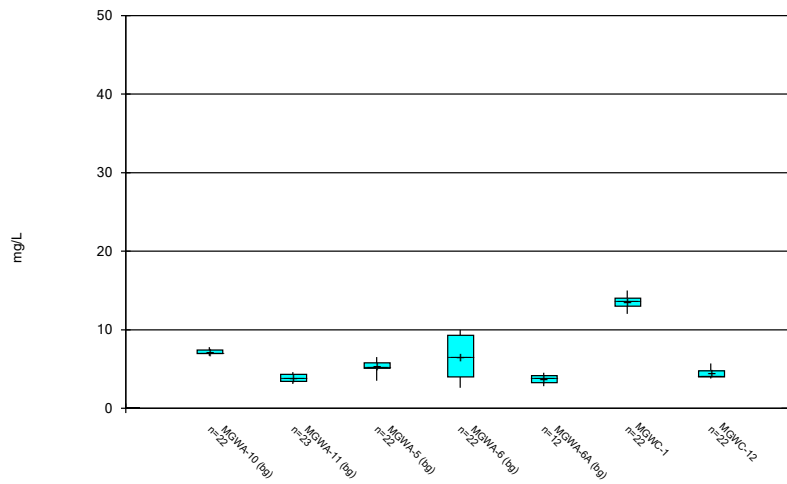
Constituent: Calcium Analysis Run 1/20/2025 10:50 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



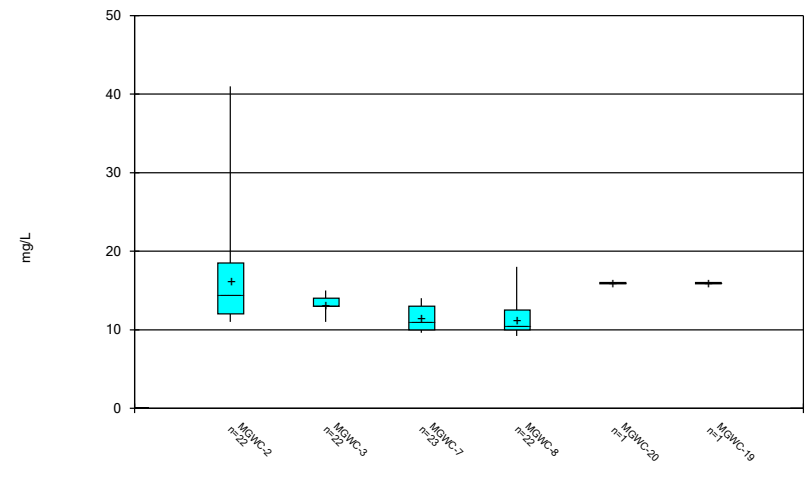
Constituent: Calcium Analysis Run 1/20/2025 10:50 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



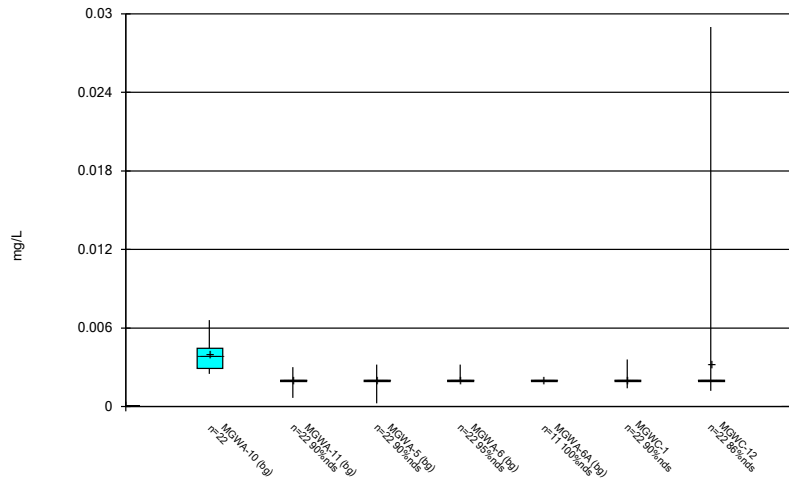
Constituent: Chloride Analysis Run 1/20/2025 10:50 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



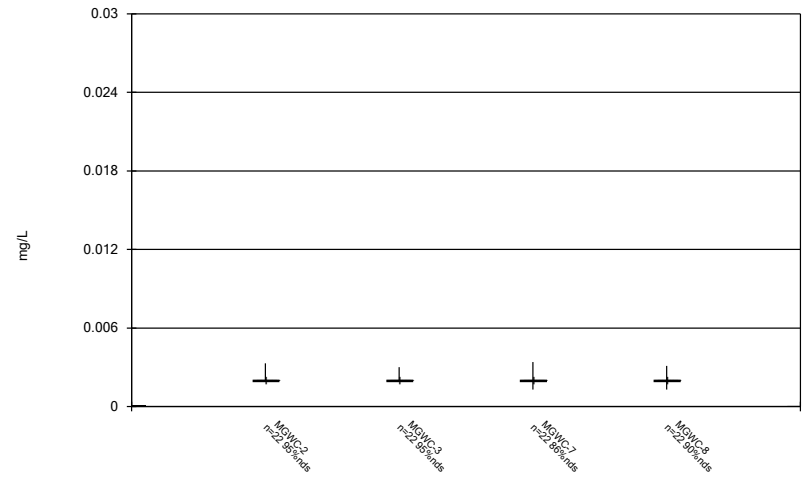
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



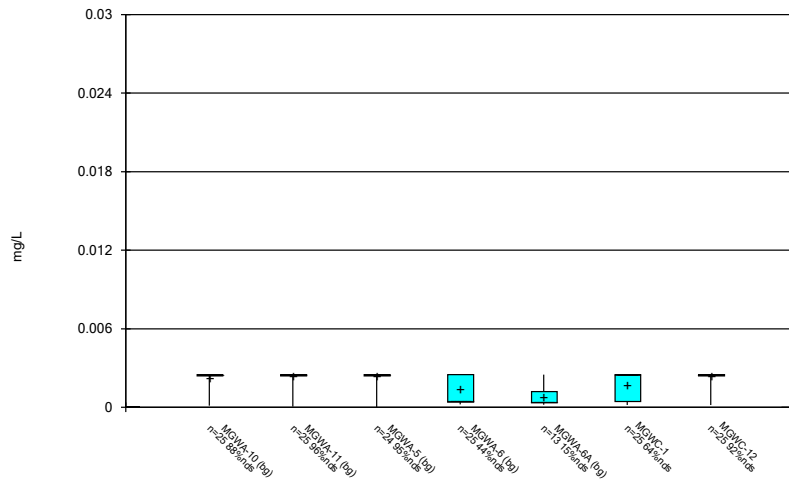
Constituent: Chromium Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



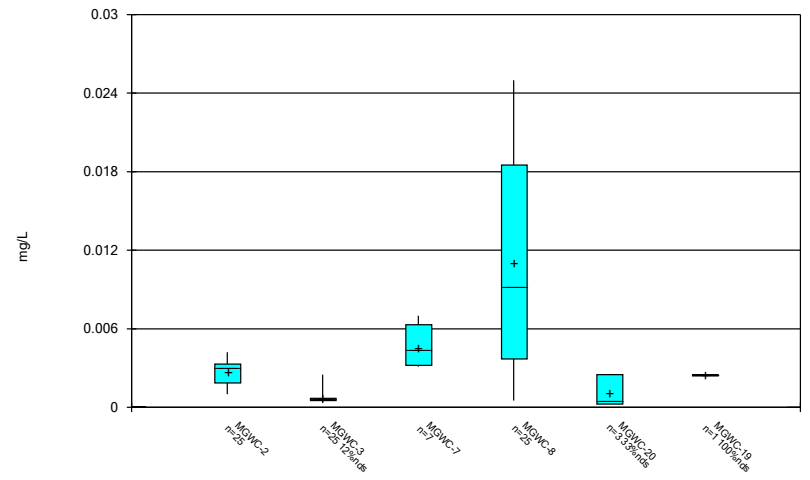
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 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



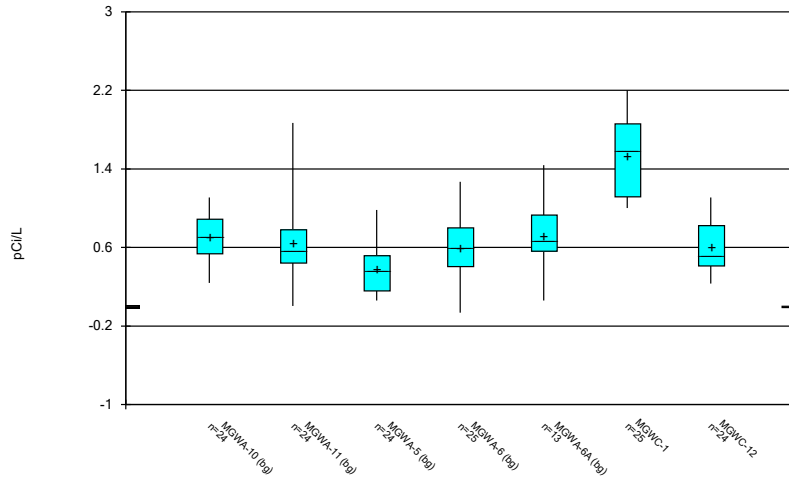
Constituent: Cobalt Analysis Run 1/20/2025 10:50 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



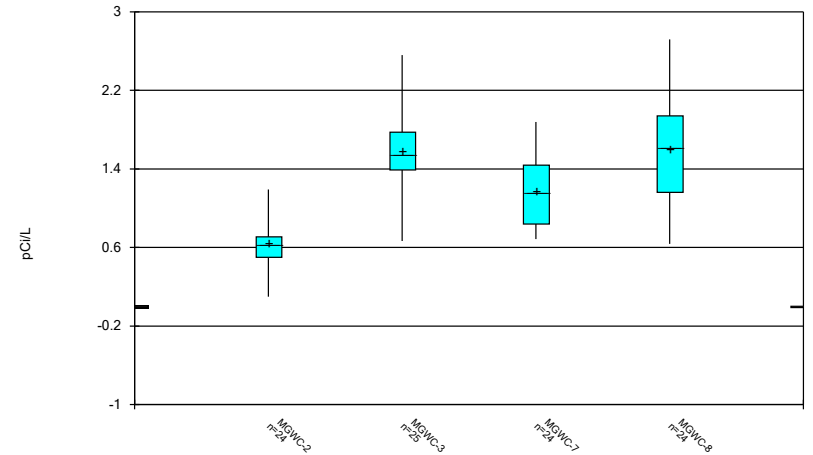
Constituent: Cobalt Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



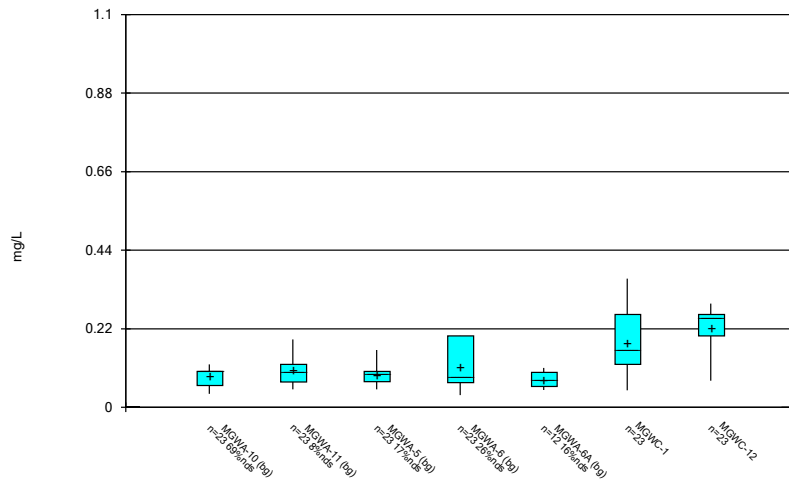
Constituent: Combined Radium 226 + 228 Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



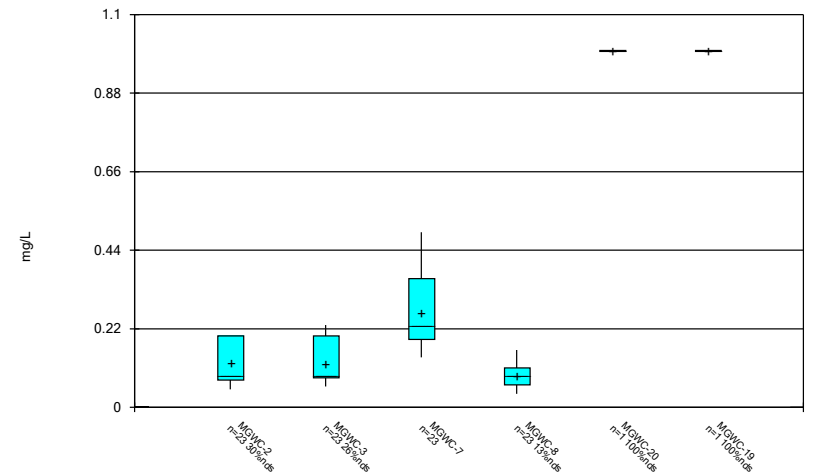
Constituent: Combined Radium 226 + 228 Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



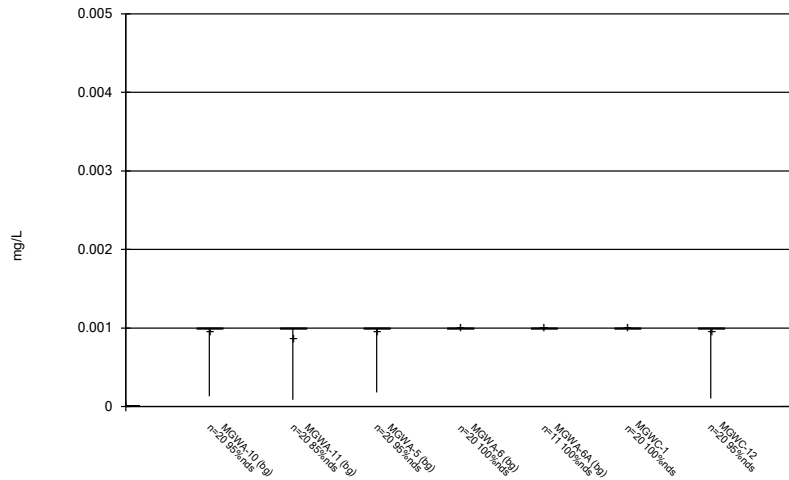
Constituent: Fluoride Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



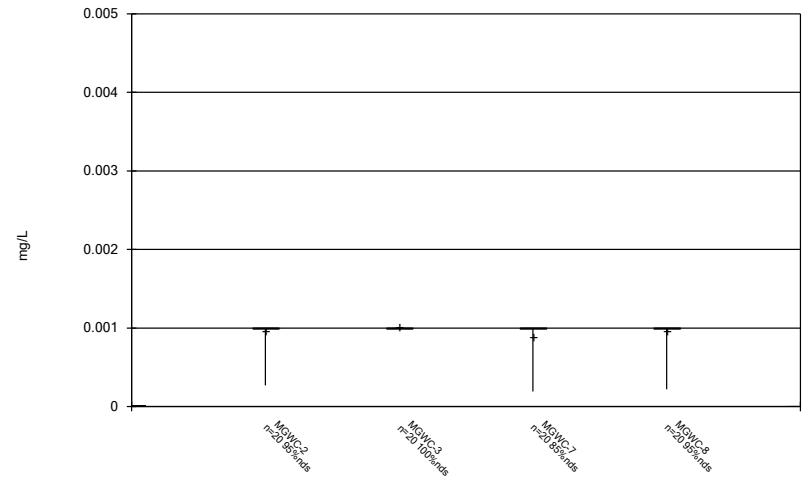
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 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



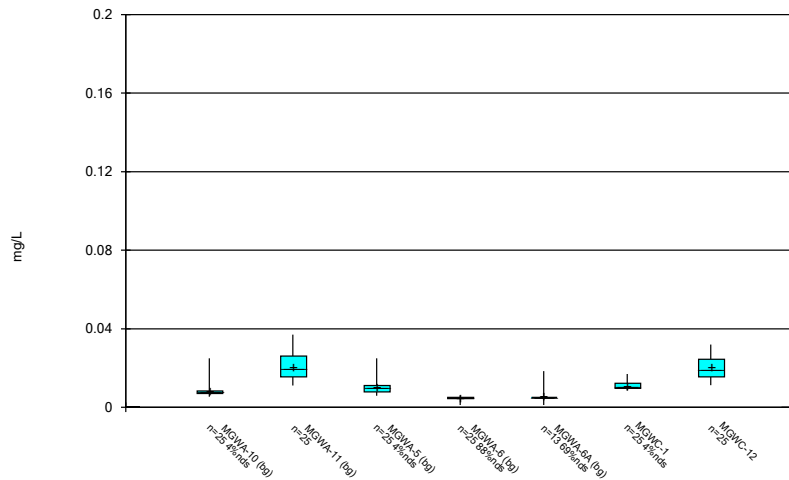
Constituent: Lead Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



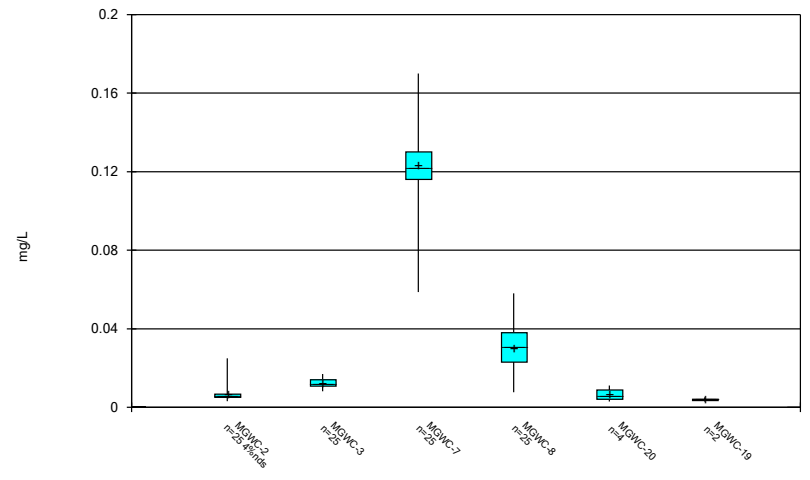
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



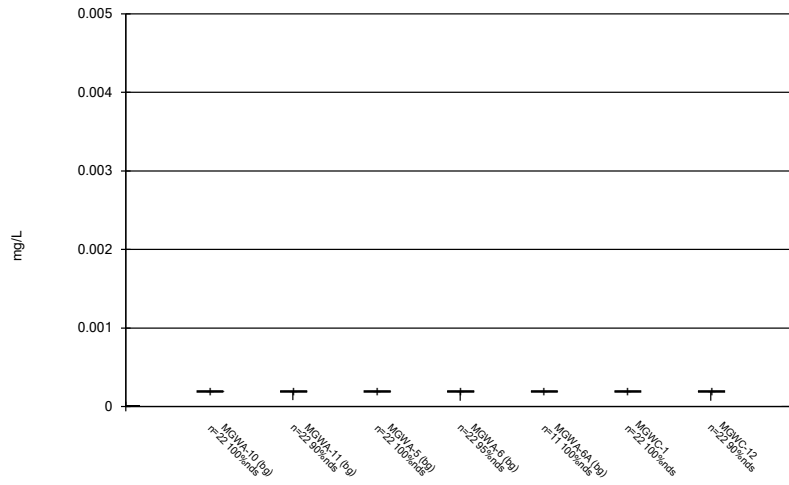
Constituent: Lithium Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



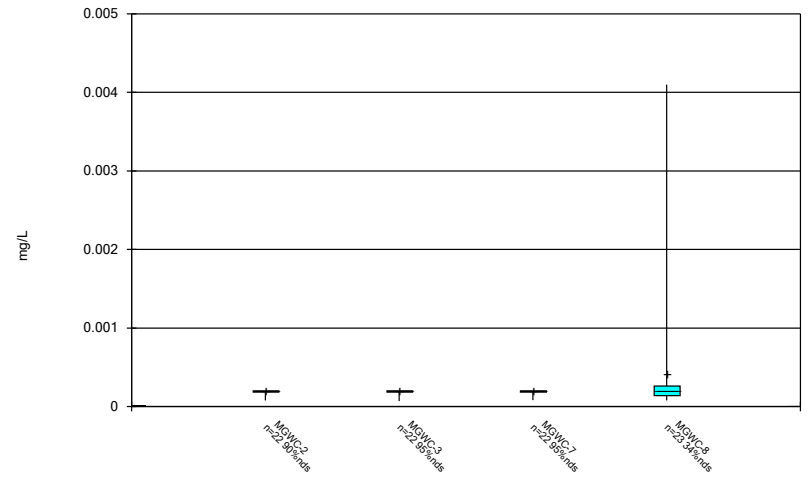
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



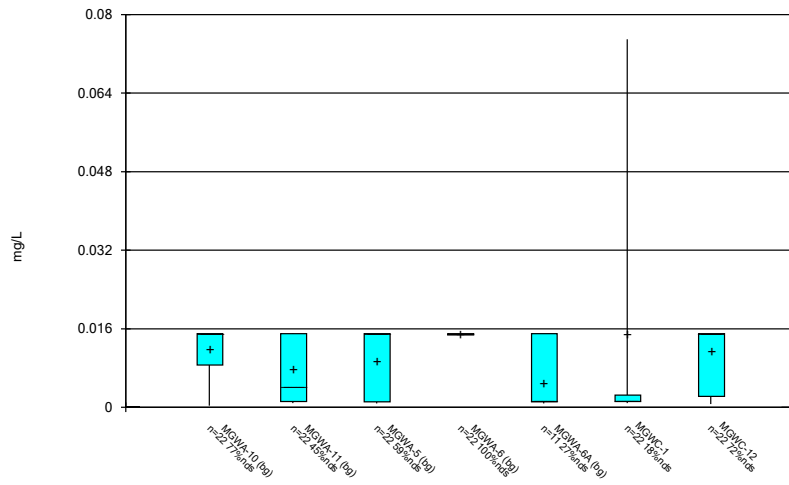
Constituent: Mercury Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



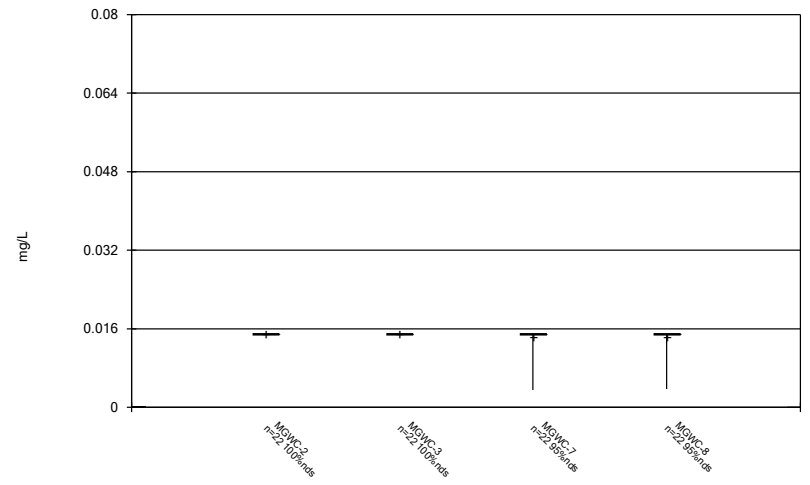
Constituent: Mercury Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



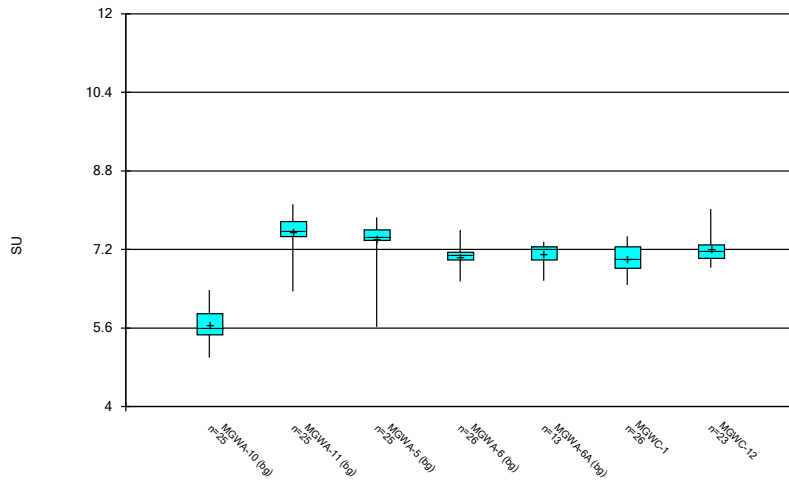
Constituent: Molybdenum Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



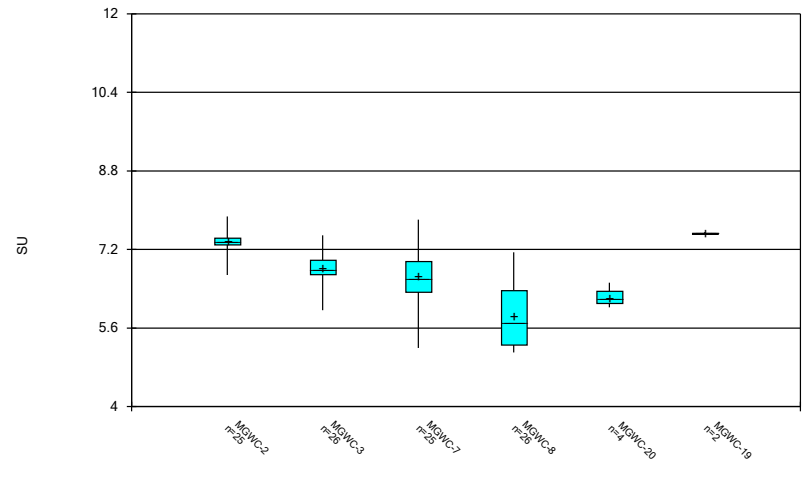
Constituent: Molybdenum Analysis Run 1/20/2025 10:51 AM
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



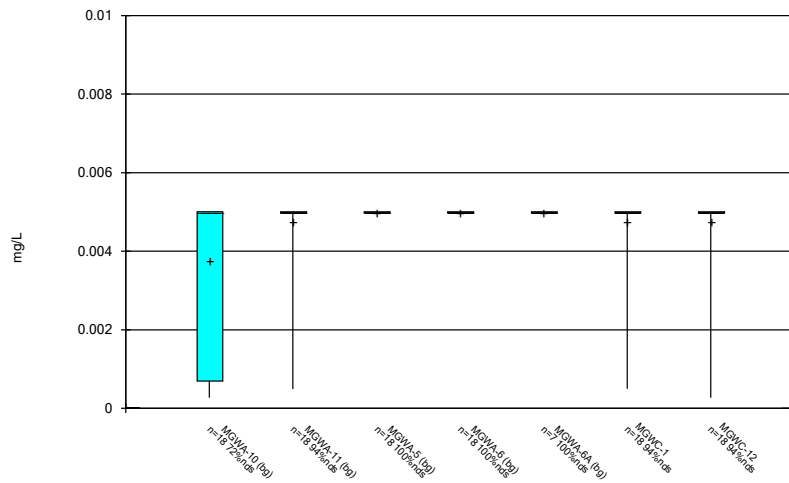
Constituent: pH Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



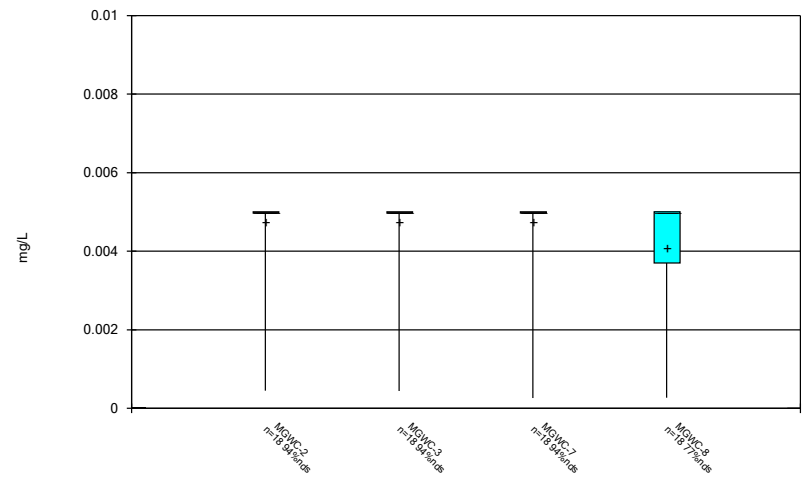
Constituent: pH Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



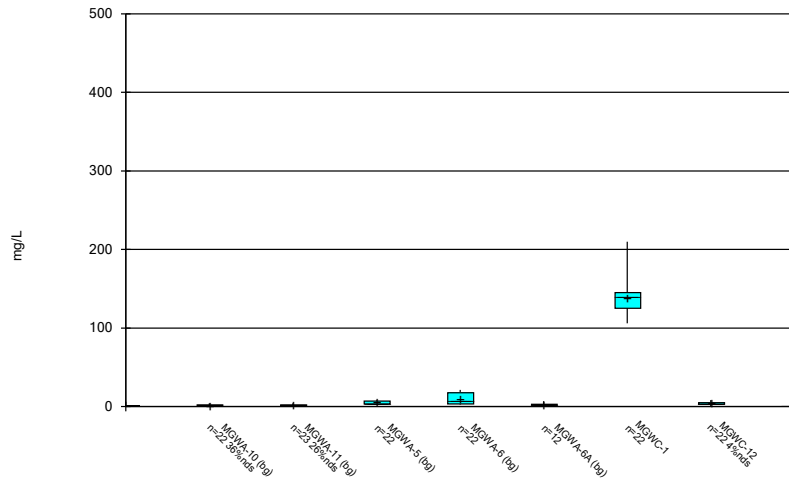
Constituent: Selenium Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



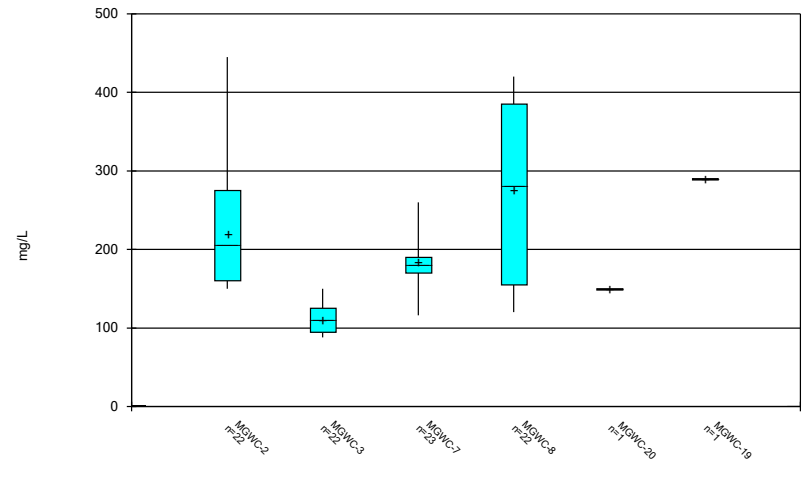
Constituent: Selenium Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



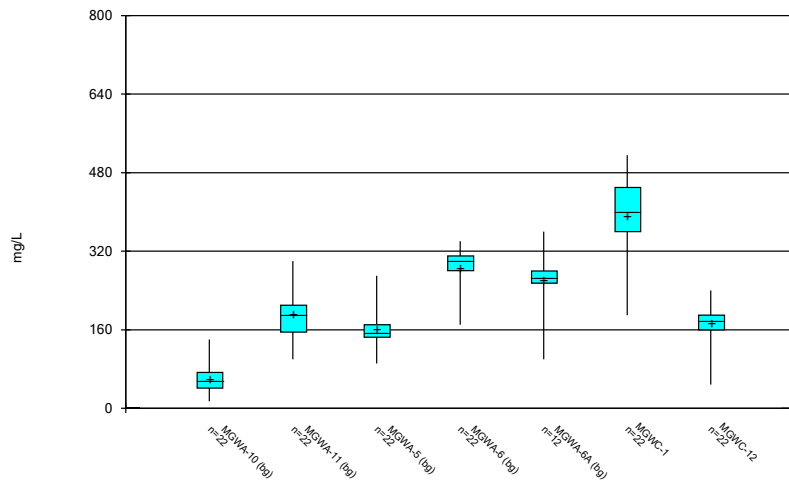
Constituent: Sulfate Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



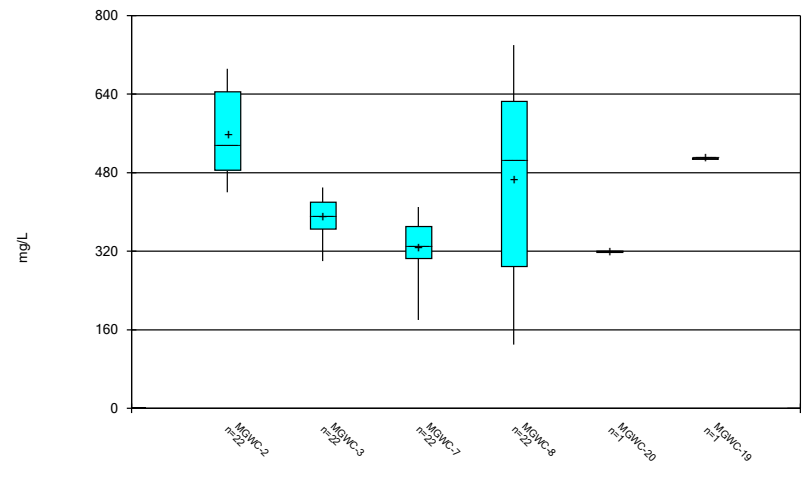
Constituent: Sulfate Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



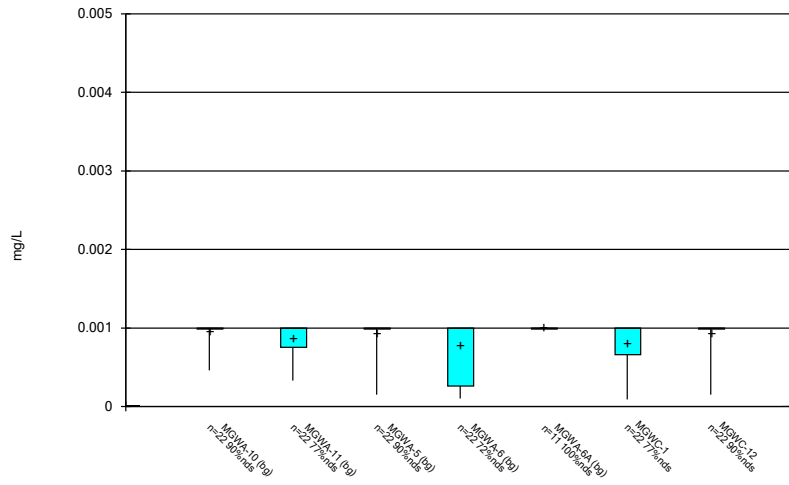
Constituent: TDS Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



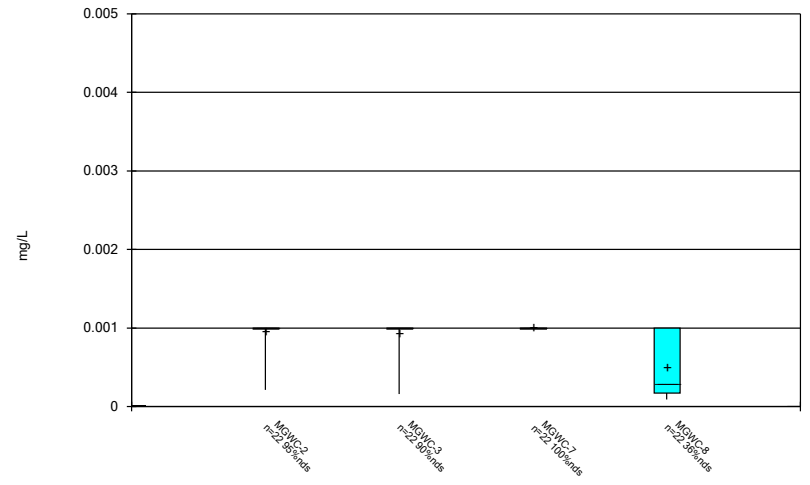
Constituent: TDS Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/20/2025 10:51 AM
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:12 PM

	MGWA-5 Cobalt (mg/L)	MGWC-12 pH (SU)
9/10/2019	10.96 (o)	
9/16/2020	11.03 (o)	
8/2/2022	0.012 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	8/13/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	8/14/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	8/14/2024	0.42	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	8/14/2024	2.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	8/14/2024	5.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	8/13/2024	120	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	8/14/2024	130	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	8/13/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	8/14/2024	12	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-7	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	8/14/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.18	n/a	8/13/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.18	n/a	8/14/2024	140	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.18	n/a	8/14/2024	80	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.18	n/a	8/14/2024	200	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.18	n/a	8/14/2024	230	Yes	105	0.8806	1.033	13.33	None	In(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	8/13/2024	420	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	8/14/2024	450	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	8/14/2024	580	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2

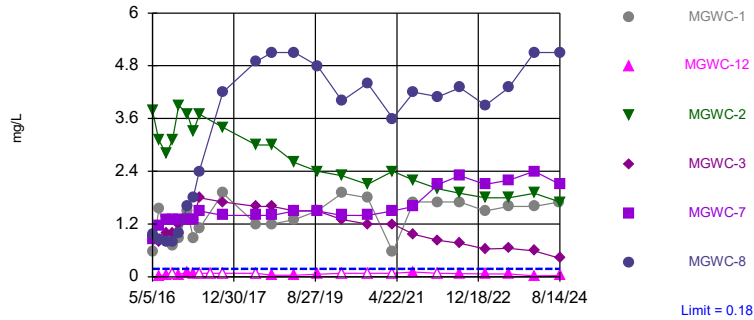
Appendix III Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	8/13/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-12	0.18	n/a	8/14/2024	0.029J	No	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	8/14/2024	1.7	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	8/14/2024	0.42	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	8/14/2024	2.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	8/14/2024	5.1	Yes	105	n/a	n/a	n/a	53.33	n/a	n/a	0.0001786 NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	8/13/2024	120	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-12	110	n/a	8/14/2024	28	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-2	110	n/a	8/14/2024	110	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	8/14/2024	110	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	8/14/2024	60	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	8/14/2024	130	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	8/13/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-12	10	n/a	8/14/2024	5.5	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	8/14/2024	12	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-7	10	n/a	8/14/2024	11	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	8/14/2024	13	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	8/13/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	8/14/2024	0.12	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	8/14/2024	0.1ND	No	109	n/a	n/a	n/a	32.11	n/a	n/a	0.000167 NP Inter (normality) 1 of 2
pH (SU)	MGWC-1	8.12	5	8/13/2024	7.14	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-12	8.12	5	8/14/2024	7.37	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-2	8.12	5	8/14/2024	7.73	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-3	8.12	5	8/14/2024	7.14	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-7	8.12	5	8/14/2024	7.5	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
pH (SU)	MGWC-8	8.12	5	8/14/2024	7.81	No	119	n/a	n/a	n/a	0	n/a	n/a	0.0002758 NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	16.18	n/a	8/13/2024	140	Yes	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
Sulfate (mg/L)	MGWC-12	16.18	n/a	8/14/2024	8.9	No	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	16.18	n/a	8/14/2024	140	Yes	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	16.18	n/a	8/14/2024	80	Yes	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	16.18	n/a	8/14/2024	200	Yes	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	16.18	n/a	8/14/2024	230	Yes	105	0.8806	1.033	13.33	None	None	ln(x)	0.001254 Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	8/13/2024	420	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-12	360	n/a	8/14/2024	190	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	8/14/2024	450	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-3	360	n/a	8/14/2024	360	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	8/14/2024	350	No	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	8/14/2024	580	Yes	105	n/a	n/a	n/a	0	n/a	n/a	0.0001786 NP Inter (normality) 1 of 2

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Non-parametric

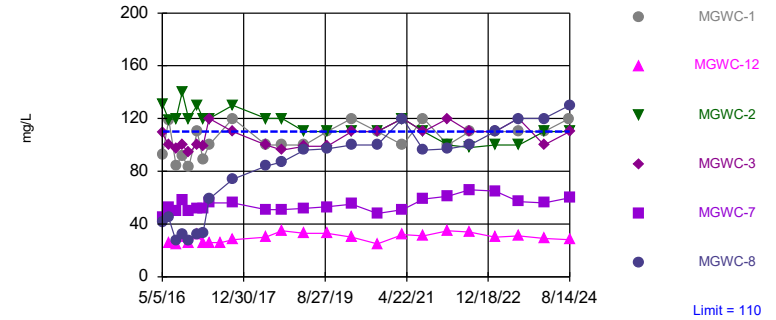


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 105 background values. 53.33% NDs. Annual per-constituent alpha = 0.002141. Individual comparison alpha = 0.0001786 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 9/27/2024 4:13 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-8

Prediction Limit
Interwell Non-parametric

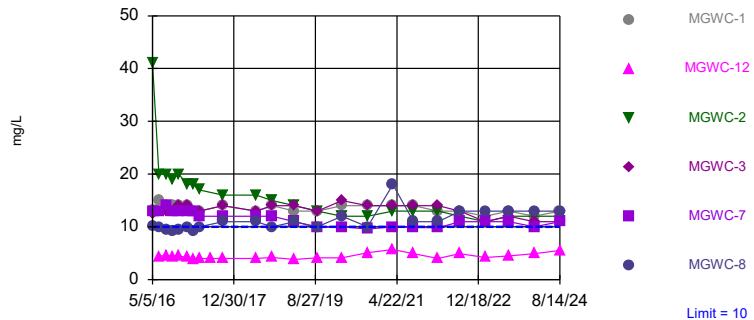


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002141. Individual comparison alpha = 0.0001786 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 9/27/2024 4:13 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Non-parametric

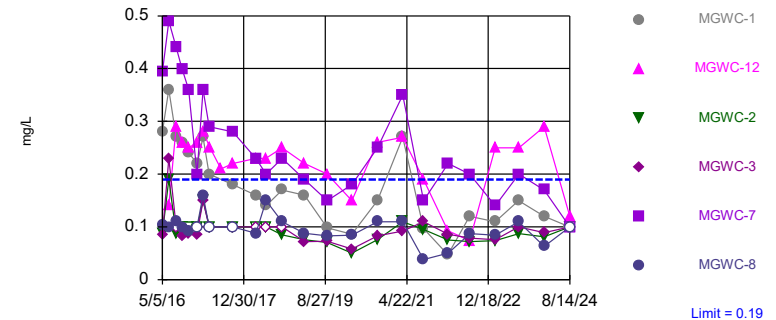


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002141. Individual comparison alpha = 0.0001786 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 9/27/2024 4:13 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Within Limit

Prediction Limit
Interwell Non-parametric

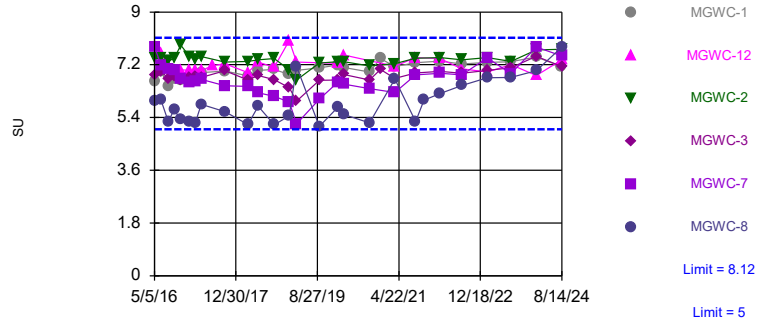


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 32.11% NDs. Annual per-constituent alpha = 0.002002. Individual comparison alpha = 0.000167 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 9/27/2024 4:13 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric



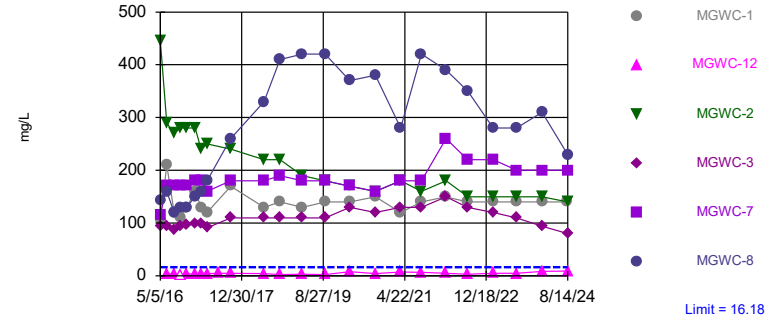
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 119 background values. Annual per-constituent alpha = 0.003308. Individual comparison alpha = 0.0002758 (1 of 2). Comparing 6 points to limit.

Constituent: pH Analysis Run 9/27/2024 4:13 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit
Interwell Parametric

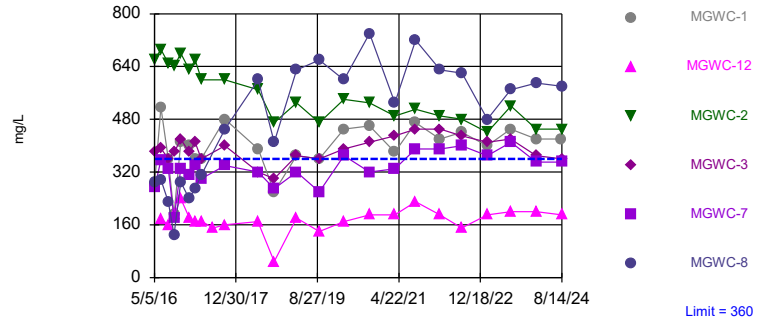


Background Data Summary (based on natural log transformation): Mean=0.8806, Std. Dev.=1.033, n=105, 13.33% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.19, critical = 14.07. Kappa = 1.842 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 9/27/2024 4:13 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002141. Individual comparison alpha = 0.0001786 (1 of 2). Comparing 6 points to limit.

Constituent: TDS Analysis Run 9/27/2024 4:13 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	<0.08	0.855	0.157	0.976	<0.08				
5/6/2016						3.78	0.567	0.926	
6/20/2016	0.011 (J)				0.013 (J)				0.017 (J)
6/21/2016		1.15	0.124	0.862		3.1	1.55	0.792	
8/15/2016	0.022 (J)	1.3	0.18	0.8	0.023 (J)				0.032 (J)
8/16/2016						2.8	0.85	1	
9/28/2016	0.023 (J)	1.3	0.17	0.8	<0.08		0.7		0.021 (J)
9/29/2016						3.1		1	
11/16/2016	<0.08	1.3	0.17	0.98	<0.08	3.9	0.88	1.2	<0.08
1/16/2017	0.021 (J)								
1/17/2017		1.3	0.17	1.6	<0.08			1.3	<0.08
1/18/2017						3.7			
1/19/2017							1.5		
3/2/2017	<0.08	1.3	0.14	1.8	<0.08	3.3	0.89	1.3	<0.08
4/18/2017	<0.08	1.5	0.14	2.4	<0.08		1.1	1.8	<0.08
4/19/2017						3.7			
4/25/2017									
7/13/2017									<0.08
10/10/2017	0.021 (J)	1.4	0.12	4.2	<0.08	3.4	1.9	1.7	0.025 (J)
6/12/2018	<0.08				<0.08				<0.08
6/13/2018		1.4	0.11	4.9		3	1.2	1.6	
10/9/2018	<0.08				<0.08				<0.08
10/10/2018		1.4	0.096 (J)	5.1		3	1.2	1.6	
1/29/2019									
3/25/2019	<0.08				<0.08				<0.08
3/26/2019		1.5	0.079 (J)	5.1		2.6	1.3	1.5	
9/10/2019	<0.08	1.5	0.097	4.8	<0.08	2.4	1.5	1.5	<0.08
3/9/2020	0.045 (J)								<0.08
3/10/2020		1.4	0.051 (J)	4	<0.08	2.3	1.9	1.3	
9/16/2020	<0.08		0.041 (J)		<0.08	2.1			0.045 (J)
9/17/2020		1.4		4.4			1.8	1.2	
3/23/2021	<0.08		<0.08						0.047 (J)
3/24/2021		1.5		3.6	<0.08	2.4	0.57	1.2	
8/23/2021	<0.08								0.043 (J)
8/24/2021			<0.08		<0.08	2.2		0.97	
8/25/2021		1.6		4.2			1.7		
2/22/2022	<0.08		<0.08		<0.08		1.7		<0.08
2/23/2022		2.1		4.1		2		0.83	
8/2/2022	<0.08		<0.08		<0.08				<0.08
8/3/2022		2.3					1.7	0.76	
8/4/2022				4.3		1.9			
2/7/2023	<0.08		0.028 (J)		0.022 (J)			0.63	0.028 (J)
2/8/2023		2.1		3.9		1.8	1.5		
8/1/2023	0.035 (J)		0.057 (J)	4.3	0.037 (J)		1.6	0.65	0.045 (J)
8/2/2023		2.2				1.8			
2/6/2024	<0.08	2.4	0.026 (J)		0.044 (J)		1.6		0.047 (J)
2/7/2024				5.1		1.9		0.59	
8/13/2024	<0.08		0.031 (J)		0.026 (J)		1.7		0.026 (J)
8/14/2024		2.1		5.1		1.7		0.42	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.0201 (J)	
8/15/2016		
8/16/2016	0.055	
9/28/2016		
9/29/2016	<0.08	
11/16/2016	0.055	
1/16/2017		
1/17/2017		
1/18/2017	0.097	
1/19/2017		
3/2/2017	0.064	
4/18/2017		
4/19/2017		
4/25/2017	<0.08	
7/13/2017	<0.08	
10/10/2017	<0.08	
6/12/2018	<0.08	
6/13/2018		
10/9/2018		
10/10/2018	0.034 (J)	
1/29/2019		<0.08
3/25/2019		<0.08
3/26/2019	0.032 (J)	
9/10/2019	0.06 (J)	0.04 (J)
3/9/2020		
3/10/2020	<0.08	<0.08
9/16/2020	<0.08	0.04 (J)
9/17/2020		
3/23/2021		<0.08
3/24/2021	<0.08	
8/23/2021		
8/24/2021		<0.08
8/25/2021	0.11	
2/22/2022	<0.08	<0.08
2/23/2022		
8/2/2022	0.071 (J)	<0.08
8/3/2022		
8/4/2022		
2/7/2023	0.067 (J)	0.039 (J)
2/8/2023		
8/1/2023		0.038 (J)
8/2/2023	0.062 (J)	
2/6/2024		0.084
2/7/2024	0.023 (J)	
8/13/2024		0.033 (J)
8/14/2024	0.029 (J)	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	8.83	45	105	41.2	27				
5/6/2016						131	92.5	109	
6/20/2016	8.1				29.4				35.5
6/21/2016		52.8	91.2	44.7		119	119	99.7	
8/15/2016	6.1	50	94	27	26				34
8/16/2016						120	84	97	
9/28/2016	7.2	58	110	32	31		92		38
9/29/2016						140		100	
11/16/2016	5.2	50	98	27	26	120	83	94	33
1/16/2017	3.8								
1/17/2017		52	100	32	29			100	34
1/18/2017						130			
1/19/2017							110		
3/2/2017	5.4	52	100	33	28	120	89	99	35
4/18/2017	5	56	110	59	27		100	120	33
4/19/2017						120			
4/25/2017									
7/13/2017									30
10/10/2017	4.8	56	110	74	31	130	120	110	39
6/12/2018	4.8				25				26
6/13/2018		51	100	84		120	100	100	
10/9/2018	4.5				29				29
10/10/2018		51	100	87		120	100	96	
1/29/2019									
3/25/2019	4.6				27				37
3/26/2019		52	100	96		110	100	99	
9/10/2019	4.9	53	110	97	27	110	110	99	36
3/9/2020	4								32
3/10/2020		55	100	100	29	110	120	110	
9/16/2020	6.8		100		28	110			30
9/17/2020		48		100			110	110	
3/23/2021	4		110						42
3/24/2021		51		120	28	120	100	120	
8/23/2021	5.8								34
8/24/2021			100		27	110		110	
8/25/2021		59		96			120		
2/22/2022	3.3		97		25		100		36
2/23/2022		61		97		100		120	
8/2/2022	3.1		110		26				36
8/3/2022		66					110	110	
8/4/2022				100		98			
2/7/2023	3.6		110		26			110	34
2/8/2023		65		110		100	110		
8/1/2023	3.9		110	120	28		110	120	39
8/2/2023		57				100			
2/6/2024	3.9	56	100		26		110		40
2/7/2024				120		110		100	
8/13/2024	4.2		110		28		120		35
8/14/2024		60		130		110		110	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	25.5	
8/15/2016		
8/16/2016	25	
9/28/2016		
9/29/2016	30	
11/16/2016	26	
1/16/2017		
1/17/2017		
1/18/2017	32	
1/19/2017		
3/2/2017	26	
4/18/2017		
4/19/2017		
4/25/2017	26	
7/13/2017	26	
10/10/2017	28	
6/12/2018	30	
6/13/2018		
10/9/2018		
10/10/2018	35	
1/29/2019		95.1
3/25/2019		89
3/26/2019	33	
9/10/2019	33	86
3/9/2020		
3/10/2020	30	90
9/16/2020	25	93
9/17/2020		
3/23/2021		97
3/24/2021	32	
8/23/2021		
8/24/2021		83
8/25/2021	31	
2/22/2022	35	90
2/23/2022		
8/2/2022	34	94
8/3/2022		
8/4/2022		
2/7/2023	30	99
2/8/2023		
8/1/2023		110
8/2/2023	31	
2/6/2024		100
2/7/2024	29	
8/13/2024		110
8/14/2024	28	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	7.35	13	9.67	10.1	6.51				
5/6/2016						41	13.2	12.5	
6/20/2016	7				5.9				4.3
6/21/2016		13	9.2	10		20	15	13	
8/15/2016	7.5	14	10	9.5	6.4				4.1
8/16/2016						20	14	13	
9/28/2016	7	13	10	9.2	6.1		14		3.9
9/29/2016						19		13	
11/16/2016	7.5	13	10	9.5	6.1	20	14	14	4.1
1/16/2017	7.7								
1/17/2017		13	9.4	10	5.7			14	3.9
1/18/2017						18			
1/19/2017							14		
3/2/2017	6.9	13	8.6	9.3	5.3	18	13	13	3.5
4/18/2017	6.8	12	8.9	10	5.3		13	13	3.7
4/19/2017						17			
4/25/2017									
7/13/2017									4.2
10/10/2017	6.9	12	8.3	11	5.3	16	14	14	3.4
6/12/2018	6.7				5.1				4.6
6/13/2018		12	7	11		16	13	13	
10/9/2018	7.1				5.6				4.5
10/10/2018		12	6.9	10		15	14	14	
1/29/2019									
3/25/2019	6.8				4.7				3.4
3/26/2019		11	5.8	11		14	13	14	
9/10/2019	7	9.9	6	10	5.1	13	13	13	3.5
3/9/2020	7.4								4.5
3/10/2020		10	5.1	12	5.4	12	14	15	
9/16/2020	7		4.3		5.2	12			4.6
9/17/2020		9.6		10			14	14	
3/23/2021	7.8		4						3.8
3/24/2021		10		18	5.5	13	14	14	
8/23/2021	7.3								4.4
8/24/2021			4		5.5	13		14	
8/25/2021		9.9		11			14		
2/22/2022	7.1		4		5.1		13		3.1
2/23/2022		9.8		11		13		14	
8/2/2022	7.4		2.6		3.5				3.4
8/3/2022		11					13	13	
8/4/2022				13		12			
2/7/2023	7		3.1		4.7			11	4.2
2/8/2023		11		13		11	12		
8/1/2023	7.4		3.3	13	5.2		13	12	3.3
8/2/2023		11				12			
2/6/2024	7.2	10	3.1		4.9		12		3.3
2/7/2024				13		12		11	
8/13/2024	7.6		3.4		5.2		13		4.9
8/14/2024		11		13		12		11	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4.4	
8/15/2016		
8/16/2016	4.6	
9/28/2016		
9/29/2016	4.4	
11/16/2016	4.5	
1/16/2017		
1/17/2017		
1/18/2017	4.2	
1/19/2017		
3/2/2017	3.9	
4/18/2017		
4/19/2017		
4/25/2017	4	
7/13/2017	4	
10/10/2017	4	
6/12/2018	4	
6/13/2018		
10/9/2018		
10/10/2018	4.2	
1/29/2019		4.51
3/25/2019		4.4
3/26/2019	3.8	
9/10/2019	4.1	4.2
3/9/2020		
3/10/2020	4.1	4
9/16/2020	5.1	3.7
9/17/2020		
3/23/2021		4.1
3/24/2021	5.7	
8/23/2021		
8/24/2021		3.9
8/25/2021	4.9	
2/22/2022	4	3.3
2/23/2022		
8/2/2022	4.9	2.8
8/3/2022		
8/4/2022		
2/7/2023	4.2	3.2
2/8/2023		
8/1/2023		3.4
8/2/2023	4.5	
2/6/2024		3.2
2/7/2024	4.9	
8/13/2024		3.5
8/14/2024	5.5	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-8	MGWA-6 (bg)	MGWC-7	MGWA-5 (bg)	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
5/5/2016	0.046 (J)	0.103 (J)	0.091 (J)	0.394	0.132 (J)				
5/6/2016						0.086 (J)	0.088 (J)	0.28 (J)	
6/20/2016	<0.1				0.05 (J)				0.06 (J)
6/21/2016		0.1 (J)	0.08 (J)	0.49		0.23 (J)	0.19 (J)	0.36	
8/15/2016	<0.1	0.11 (J)	<0.1	0.44	0.1 (J)				0.1 (J)
8/16/2016						<0.1	0.087 (J)	0.27	
9/28/2016	<0.1	0.1 (J)	0.084 (J)	0.4	0.11 (J)			0.26	0.097 (J)
9/29/2016						0.082 (J)	<0.1		
11/16/2016	<0.1	0.091 (J)	0.084 (J)	0.36	0.093 (J)	0.087 (J)	<0.1	0.24	0.12 (J)
1/16/2017	<0.1								
1/17/2017		<0.1	0.099 (J)	0.2	0.095 (J)	0.086 (J)			0.11 (J)
1/18/2017							<0.1		
1/19/2017								0.22	
3/2/2017	0.12 (J)	0.16 (J)	0.15 (J)	0.36	0.16 (J)	0.15 (J)	0.15 (J)	0.27	0.18 (J)
4/18/2017	<0.1	<0.1	<0.1	0.29	<0.1	<0.1		0.2	0.11 (J)
4/19/2017							<0.1		
4/25/2017									
7/13/2017									0.12 (J)
10/10/2017	<0.1	<0.1	<0.1	0.28	<0.1	<0.1	<0.1	0.18 (J)	0.086 (J)
3/29/2018	<0.1		<0.1	0.23	0.084 (J)			0.16 (J)	<0.1
3/30/2018		0.088 (J)				<0.1	<0.1		
6/12/2018	<0.1				<0.1				0.16 (J)
6/13/2018		0.15 (J)	<0.1	0.2		<0.1	<0.1	0.14 (J)	
10/9/2018	<0.1				0.086 (J)				0.16 (J)
10/10/2018		0.11 (J)	<0.1	0.23		<0.1	0.085 (J)	0.17 (J)	
1/29/2019									
3/25/2019	<0.1				0.072 (J)				0.087 (J)
3/26/2019		0.088 (J)	0.065 (J)	0.19 (J)		0.072 (J)	0.076 (J)	0.16	
9/10/2019	0.044 (J)	0.083 (J)	0.076 (J)	0.15	0.068 (J)	0.073 (J)	0.07 (J)	0.098 (J)	0.075 (J)
3/9/2020	0.061 (J)								0.19
3/10/2020		0.084 (J)	0.045 (J)	0.18	0.055 (J)	0.058 (J)	0.05 (J)	0.086 (J)	
9/16/2020	0.042 (J)		0.076 (J)		0.08 (J)		0.076 (J)		0.18
9/17/2020		0.11		0.25		0.083 (J)		0.15	
3/23/2021	0.038 (J)		0.082 (J)						0.081 (J)
3/24/2021		0.11		0.35	0.091 (J)	0.092 (J)	0.11	0.27	
8/23/2021	0.048 (J)								0.12
8/24/2021			0.1		0.1	0.11	0.095 (J)		
8/25/2021		0.038 (J)		0.15				0.097 (J)	
2/22/2022	<0.1		0.034 (J)		<0.1			0.047 (J)	<0.1
2/23/2022		0.05 (J)		0.22		0.086 (J)	0.075 (J)		
8/2/2022	<0.1		0.055 (J)		0.066 (J)				0.065 (J)
8/3/2022				0.2		0.079 (J)		0.12	
8/4/2022		0.087 (J)					0.072 (J)		
2/7/2023	<0.1		0.06 (J)		0.069 (J)	0.076 (J)			0.07 (J)
2/8/2023		0.084 (J)		0.14			0.074 (J)	0.11	
8/1/2023	<0.1	0.11	0.084 (J)		0.094 (J)	0.1		0.15	0.094 (J)
8/2/2023				0.2			0.087 (J)		
2/6/2024	<0.1		0.069 (J)	0.17	0.079 (J)			0.12	0.071 (J)
2/7/2024		0.063 (J)				0.089 (J)	0.081 (J)		
8/13/2024	<0.1		<0.1		<0.1			<0.1	<0.1
8/14/2024		<0.1		<0.1		<0.1	<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.14 (J)	
8/15/2016		
8/16/2016	0.29	
9/28/2016		
9/29/2016	0.26	
11/16/2016	0.25	
1/16/2017		
1/17/2017		
1/18/2017	0.26	
1/19/2017		
3/2/2017	0.28	
4/18/2017		
4/19/2017		
4/25/2017	0.25	
7/13/2017	0.21	
10/10/2017	0.22	
3/29/2018	0.23	
3/30/2018		
6/12/2018	0.23	
6/13/2018		
10/9/2018		
10/10/2018	0.25	
1/29/2019		<0.1
3/25/2019		0.067 (J)
3/26/2019	0.22	
9/10/2019	0.2	0.052 (J)
3/9/2020		
3/10/2020	0.15	0.048 (J)
9/16/2020	0.26	0.078 (J)
9/17/2020		
3/23/2021		0.096 (J)
3/24/2021	0.27	
8/23/2021		
8/24/2021		0.11
8/25/2021	0.19	
2/22/2022	0.093 (J)	<0.1
2/23/2022		
8/2/2022	0.074 (J)	0.052 (J)
8/3/2022		
8/4/2022		
2/7/2023	0.25	0.064 (J)
2/8/2023		
8/1/2023		0.081 (J)
8/2/2023	0.25	
2/6/2024		0.074 (J)
2/7/2024	0.29	
8/13/2024		<0.1
8/14/2024	0.12	

Prediction Limit

Constituent: pH (SU) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
5/5/2016	5.94	5.96	7.4	7.81	7.13				
5/6/2016						6.85	7.41	6.64	
6/20/2016	5.84 (D)		7.63						7.82
6/21/2016		6		7.2	7.25	6.98	7.41	6.99	
8/15/2016	5.65	5.26	7.54	7.04	7.04				7.52
8/16/2016						6.73	7.33	6.48	
9/28/2016	5.72	5.66	7.45	7	7.09			6.7	7.66
9/29/2016						6.81	7.42		
11/16/2016	5.65	5.33	7.39	6.73	7.6	6.69	7.87	6.66	7.51
1/16/2017	5.52								
1/17/2017		5.24	7.23	6.61	6.99	6.77			7.52
1/18/2017							7.49		
1/19/2017								6.81	
3/2/2017	5.53	5.21	7.55	6.62	6.95	6.79	7.37	6.75	7.5
4/18/2017	5.64	5.85	7.43	6.7	7.02	6.77		6.93	7.75
4/19/2017							7.48		
4/25/2017									
7/13/2017									7.72
10/10/2017		5.6	5.62	6.48	7.27	7	7.29	6.99	
10/11/2017	6.11								6.35
3/29/2018	5.35		7.19	6.46	6.95			6.82	7.42
3/30/2018		5.16				6.68	7.31		
6/12/2018	6.23		7.55						8.02
6/13/2018		5.79		6.24	7.08	6.83	7.37	7.01	
10/9/2018	5.62 (D)		7.8 (D)						7.79 (D)
10/10/2018		5.15 (D)		6.12 (D)	7.01 (D)	6.69 (D)	7.41 (D)	7.04 (D)	
1/28/2019	5.49 (D)								7.4 (D)
1/29/2019		5.46 (D)	7.63 (D)	5.93 (D)	6.55 (D)	6.42 (D)	7.03 (D)	6.87 (D)	
3/25/2019	5.27 (D)		7.44 (D)						7.29 (D)
3/26/2019		7.14 (D)		5.19 (D)	6.57 (D)	5.96 (D)	6.68 (D)	7.01 (D)	
9/10/2019	5.97	5.1	7.41	6.03	6.99	6.67	7.26	7.09	7.54
1/28/2020	5.78		7.46	6.61	7.17				7.4
1/29/2020		5.76				6.68	7.3	7.19	
3/9/2020	5.46								7.58
3/10/2020		5.5	7.3	6.54	7	6.87	7.3	7.11	
9/16/2020	6.37		7.38		6.98		7.16		7.89
9/17/2020		5.22		6.39		6.68		6.95	
12/7/2020					7.2				
12/8/2020						7.04		7.41	
3/23/2021	5				6.74				7.06
3/24/2021		6.71	6.88	6.26		6.73	7.24	7.14	
8/23/2021	6.16								8.12
8/24/2021			7.78		7.11	6.92	7.42		
8/25/2021		5.26		6.85				7.27	
10/26/2021		5.99							
2/22/2022	5.38		7.57		7.14			7.32	7.6
2/23/2022		6.22		6.91		6.98	7.44		
8/2/2022	5.41		7.45		7.1				7.57
8/3/2022				6.86		6.91		7.23	
8/4/2022		6.5					7.37		
2/7/2023	5.46		7.85		7.13	7.01			7.72
2/8/2023		6.76		7.43			7.44	7.28	

Prediction Limit

Constituent: pH (SU) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
8/1/2023	5.46	6.77	7.52		7.14	7.09		7.3	7.61
8/2/2023				6.9			7.31		
2/6/2024	5.52		7.67	7.81	7.07			7.47	7.86
2/7/2024		7				7.49	7.71		
8/13/2024	5.43		7.67		7.27			7.14	7.72
8/14/2024		7.81		7.5		7.14	7.73		

Prediction Limit

Constituent: pH (SU) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	7.61	
8/15/2016		
8/16/2016	7.17	
9/28/2016		
9/29/2016	6.97	
11/16/2016	7.03	
1/16/2017		
1/17/2017		
1/18/2017	7.01	
1/19/2017		
3/2/2017	7.02	
4/18/2017		
4/19/2017		
4/25/2017	7.02	
7/13/2017	7.17	
10/10/2017	7.24	
10/11/2017		
3/29/2018	6.93	
3/30/2018		
6/12/2018	7.29	
6/13/2018		
10/9/2018		
10/10/2018	7.12 (D)	
1/28/2019		
1/29/2019	8.02 (D)	6.93 (D)
3/25/2019		7.1 (D)
3/26/2019	7.29 (D)	
9/10/2019	10.96 (o)	7.15
1/28/2020	7.25	7.36
1/29/2020		
3/9/2020		
3/10/2020	7.53	7.04
9/16/2020	11.03 (o)	6.89
9/17/2020		
12/7/2020		
12/8/2020		
3/23/2021		6.56
3/24/2021	7.15	
8/23/2021		
8/24/2021		7.28
8/25/2021	7.44	
10/26/2021		
2/22/2022	7.41	7.2
2/23/2022		
8/2/2022	7.06	7.27
8/3/2022		
8/4/2022		
2/7/2023	6.95	7.24
2/8/2023		

Prediction Limit

Constituent: pH (SU) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
8/1/2023		7.2
8/2/2023	7.2	
2/6/2024		7.23
2/7/2024	6.83	
8/13/2024		7.23
8/14/2024	7.37	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	2.46	116	17.8	144	4.47				
5/6/2016						445	106	94.2	
6/20/2016	2.5				7.7				1
6/21/2016		170	17	160		290	210	95	
8/15/2016	1.9	170	20	120	7.5				0.73 (J)
8/16/2016						270	120	88	
9/28/2016	1.9	170	21	130	7.8		110		<1
9/29/2016						280		94	
11/16/2016	1.7	170	20	130	6.7	280	130	97	<1
1/16/2017	<1								
1/17/2017		180	19	150	6.7			100	<1
1/18/2017						280			
1/19/2017							160		
3/2/2017	1.4	180	15	160	5.6	240	130	100	<1
4/18/2017	1.3	160	14	180	5.1		120	91	<1
4/19/2017						250			
4/25/2017									
7/13/2017									1.4
10/10/2017	1.1	180	11	260	4.9	240	170	110	0.87 (J)
6/12/2018	0.82 (J)				3.8				4.1
6/13/2018		180	8.7	330		220	130	110	
10/9/2018	0.82 (J)				6.7				2.2
10/10/2018		190	8.7	410		220	140	110	
1/29/2019									
3/25/2019	<1				3.4 (J)				<1
3/26/2019		180	6.3 (J)	420		190	130	110	
9/10/2019	1.1	180	5.6	420	4.7	180	140	110	1.8
3/9/2020	4.2								3.4
3/10/2020		170	5	370	5.2	170	140	130	
9/16/2020	0.69 (J)		2.7		3.2	160			3
9/17/2020		160		380			150	120	
3/23/2021	<1		3.2						1.4
3/24/2021		180		280	3.5	180	120	130	
8/23/2021	<1								3.4
8/24/2021			3.5		3.6	160		130	
8/25/2021		180		420			140		
2/22/2022	<1		5.4		3.2		150		1.1
2/23/2022		260		390		180		150	
8/2/2022	<1		2.3		2.7				0.8 (J)
8/3/2022		220					140	130	
8/4/2022				350		150			
2/7/2023	<1		2.3		2.5			120	3.3
2/8/2023		220		280		150	140		
8/1/2023	0.56 (J)		3.2	280	2.9		140	110	1
8/2/2023		200				150			
2/6/2024	<1	200	2.8		2.4		140		0.82 (J)
2/7/2024				310		150		94	
8/13/2024	0.59 (J)		4.4		3.3		140		3.3
8/14/2024		200		230		140		80	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4	
8/15/2016		
8/16/2016	2.8	
9/28/2016		
9/29/2016	<1	
11/16/2016	3	
1/16/2017		
1/17/2017		
1/18/2017	4.1	
1/19/2017		
3/2/2017	4.6	
4/18/2017		
4/19/2017		
4/25/2017	4.4	
7/13/2017	4.8	
10/10/2017	4.9	
6/12/2018	4.1	
6/13/2018		
10/9/2018		
10/10/2018	2.5	
1/29/2019		7.08
3/25/2019		1.8 (J)
3/26/2019	2.9 (J)	
9/10/2019	2.5	0.6 (J)
3/9/2020		
3/10/2020	7.8	2.4
9/16/2020	4.4	1
9/17/2020		
3/23/2021		1.7
3/24/2021	7.1	
8/23/2021		
8/24/2021		3.3
8/25/2021	6.6	
2/22/2022	4.8	2.1
2/23/2022		
8/2/2022	3.1	2.1
8/3/2022		
8/4/2022		
2/7/2023	4.7	1.6
2/8/2023		
8/1/2023		4
8/2/2023	4.6	
2/6/2024		2.4
2/7/2024	8.2	
8/13/2024		4.2
8/14/2024	8.9	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWA-10 (bg)	MGWC-7	MGWA-6 (bg)	MGWC-8	MGWA-5 (bg)	MGWC-2	MGWC-1	MGWC-3	MGWA-11 (bg)
5/5/2016	78	272	281	287	129				
5/6/2016						661	282	380	
6/20/2016	80				156				188
6/21/2016		356	303	297		692	516	392	
8/15/2016	58	330	310	230	160				180
8/16/2016						650	360	360	
9/28/2016	29	180	170	130	91		190		100
9/29/2016						640		380	
11/16/2016	140	330	340	290	250	680	410	420	270
1/16/2017	36								
1/17/2017		310	310	240	140			380	170
1/18/2017						630			
1/19/2017							400		
3/2/2017	78	340	330	270	170	660	360	410	210
4/18/2017	16	300	290	310	140		360	360	160
4/19/2017						600			
4/25/2017									
7/13/2017									150
10/10/2017	78	340	310	450	190	600	480	400	210
6/12/2018	62				180				150
6/13/2018		320	230	600		570	390	320	
10/9/2018	68				170				150
10/10/2018		270	300	410		470	260	300	
1/29/2019									
3/25/2019	54				150				210
3/26/2019		320	290	630		530	370	370	
9/10/2019	14	260	260	660	110	470	360	360	160
3/9/2020	56								190
3/10/2020		370	300	600	170	540	450	390	
9/16/2020	44		300		150	530			150
9/17/2020		320		740			460	410	
3/23/2021	53		300						220
3/24/2021		330		530	150	490	380	430	
8/23/2021	55								200
8/24/2021			300		160	510		450	
8/25/2021		390		720			470		
2/22/2022	38		300		150		420		210
2/23/2022		390		630		490		450	
8/2/2022	65		200		270				210
8/3/2022		400					440	430	
8/4/2022				620		480			
2/7/2023	61		290		150			410	190
2/8/2023		370		480		440	400		
8/1/2023	57		330	570	170		450	420	300
8/2/2023		410				520			
2/6/2024	57	350	280		150		420		210
2/7/2024				590		450		370	
8/13/2024	63		290		150		420		200
8/14/2024		350		580		450		360	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 9/27/2024 4:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	177	
8/15/2016		
8/16/2016	160	
9/28/2016		
9/29/2016	190	
11/16/2016	240	
1/16/2017		
1/17/2017		
1/18/2017	180	
1/19/2017		
3/2/2017	170	
4/18/2017		
4/19/2017		
4/25/2017	170	
7/13/2017	150	
10/10/2017	160	
6/12/2018	170	
6/13/2018		
10/9/2018		
10/10/2018	48	
1/29/2019		280
3/25/2019		250
3/26/2019	180	
9/10/2019	140	230
3/9/2020		
3/10/2020	170	260
9/16/2020	190	320
9/17/2020		
3/23/2021		270
3/24/2021	190	
8/23/2021		
8/24/2021		280
8/25/2021	230	
2/22/2022	190	270
2/23/2022		
8/2/2022	150	100 (D)
8/3/2022		
8/4/2022		
2/7/2023	190	260
2/8/2023		
8/1/2023		360
8/2/2023	200	
2/6/2024		260
2/7/2024	200	
8/13/2024		270
8/14/2024	190	

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.01684	-185	-98	Yes	23	17.39	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1021	107	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.234	-195	-98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1264	196	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.4957	132	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3456	-138	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.25	203	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.1409	-139	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.01	-212	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2462	-51	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.197	-207	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4075	-146	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.415	145	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-136	-98	Yes	23	34.78	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.5397	-175	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.355	-191	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-19.67	-220	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.24	101	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.244	130	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.44	103	98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.98	-186	-98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	49.72	123	98	Yes	23	0	n/a	0.01	NP

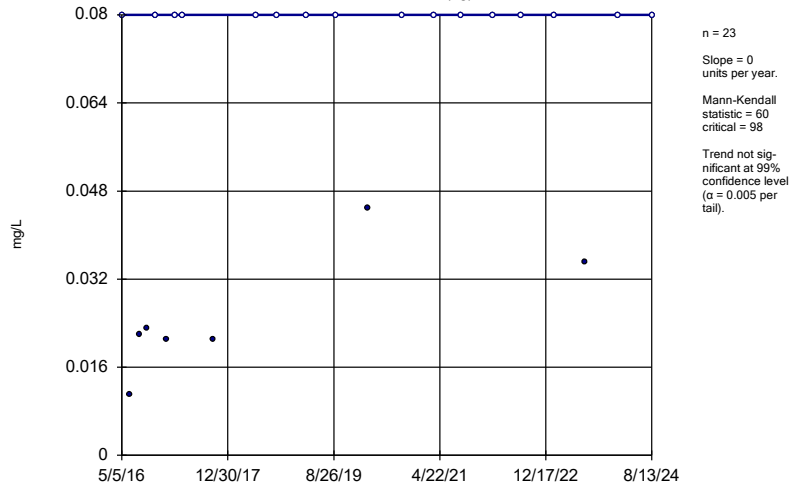
Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-10 (bg)	0	60	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	-13	-98	No	23	52.17	n/a	0.01	NP
Boron (mg/L)	MGWA-5 (bg)	0	-29	-98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	MGWA-6 (bg)	-0.01684	-185	-98	Yes	23	17.39	n/a	0.01	NP
Boron (mg/L)	MGWA-6A (bg)	0	-16	-43	No	13	53.85	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.1021	107	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.234	-195	-98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.09431	-90	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1264	196	98	Yes	23	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.4957	132	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3456	-138	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-11 (bg)	0.2582	40	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-5 (bg)	-0.1601	-48	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	61	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	2.925	42	43	No	13	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-1	2.417	95	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	12.25	203	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-10 (bg)	0.01876	36	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.03453	-31	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.1409	-139	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-1.01	-212	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2462	-51	-43	Yes	13	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	-0.06926	-93	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.197	-207	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-3	0	-22	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-7	-0.4075	-146	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.415	145	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1225	-136	-98	Yes	23	34.78	n/a	0.01	NP
Sulfate (mg/L)	MGWA-11 (bg)	0.0526	44	98	No	23	26.09	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.5397	-175	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.355	-191	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6A (bg)	0.2718	18	43	No	13	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.604	59	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-19.67	-220	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-3	5.24	101	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	4.244	130	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.44	103	98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-1.53	-33	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	4.069	59	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-5 (bg)	0	14	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-1.302	-38	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	5	43	No	13	0	n/a	0.01	NP
TDS (mg/L)	MGWC-1	8.19	68	98	No	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.98	-186	-98	Yes	23	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	49.72	123	98	Yes	23	0	n/a	0.01	NP

Sen's Slope Estimator

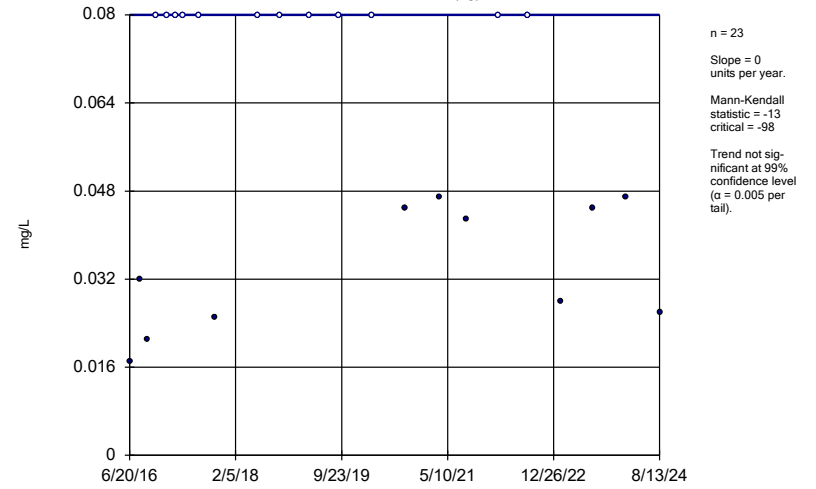
MGWA-10 (bg)



Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

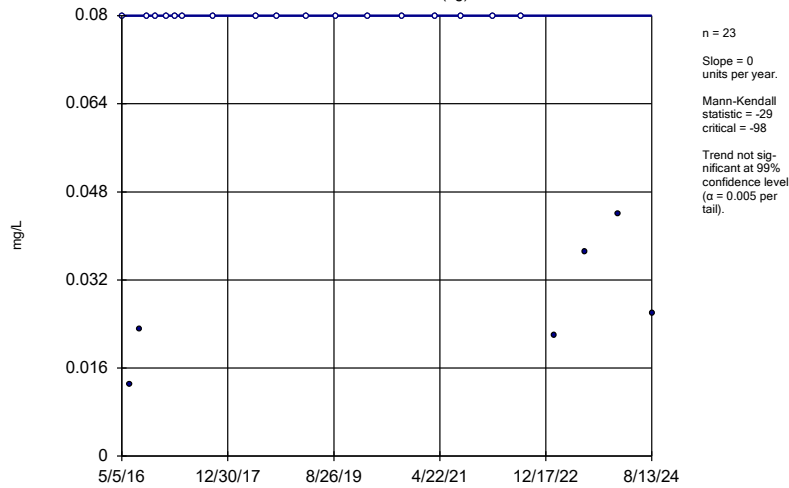
MGWA-11 (bg)



Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

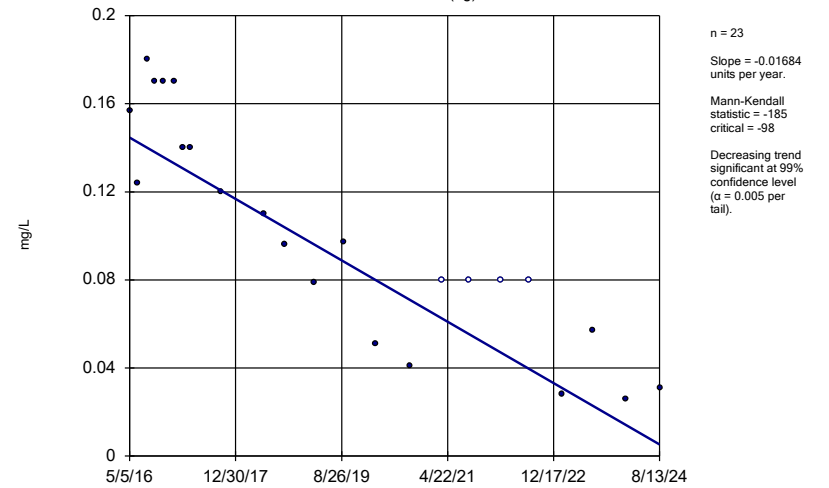
MGWA-5 (bg)



Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

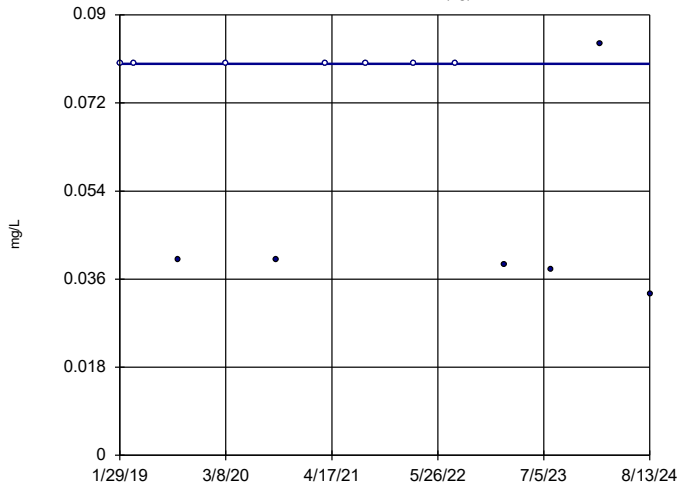
MGWA-6 (bg)



Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6A (bg)

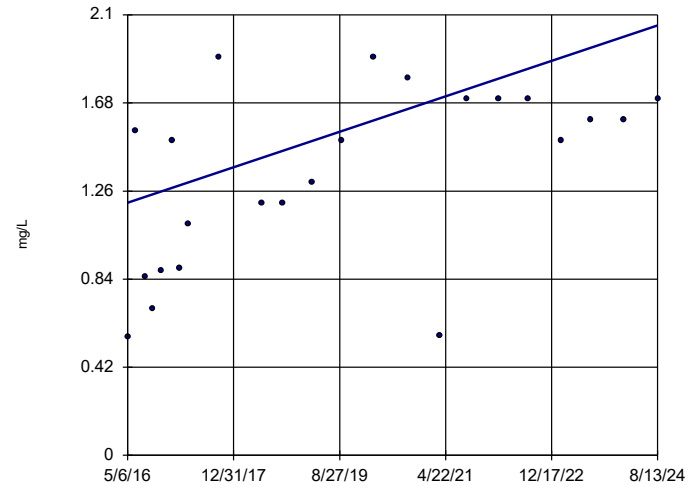


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

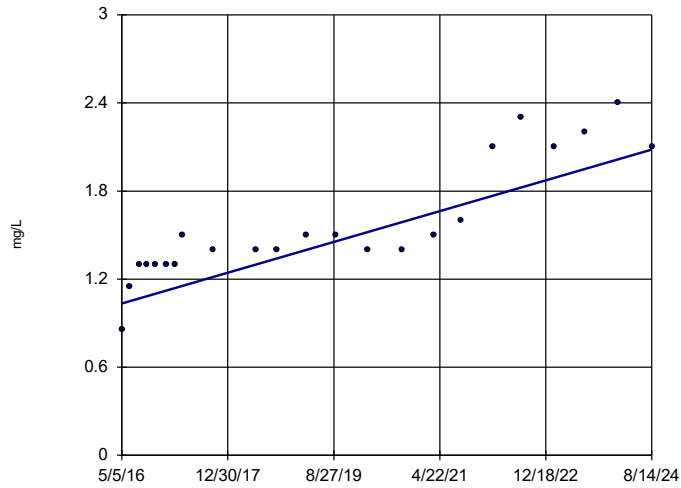
Sen's Slope Estimator

MGWC-1



Sen's Slope Estimator

MGWC-7

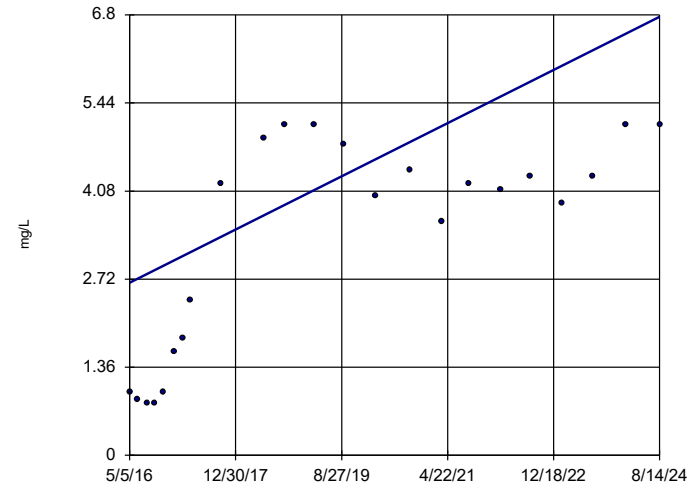


n = 23
 Slope = 0.1264
 units per year.
 Mann-Kendall
 statistic = 196
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-8

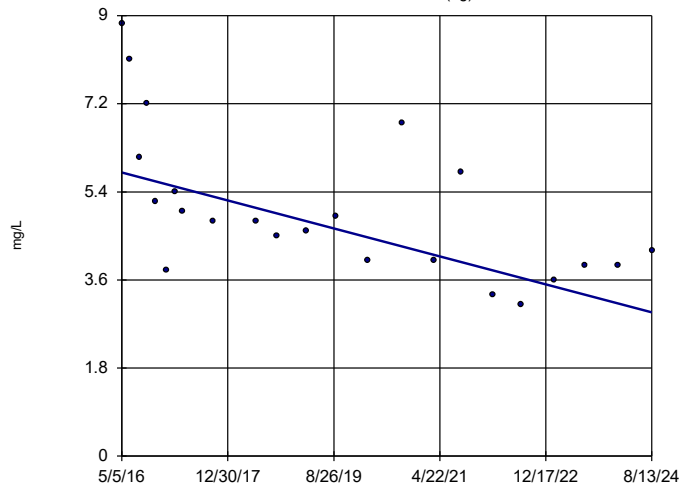


n = 23
 Slope = 0.4957
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-10 (bg)

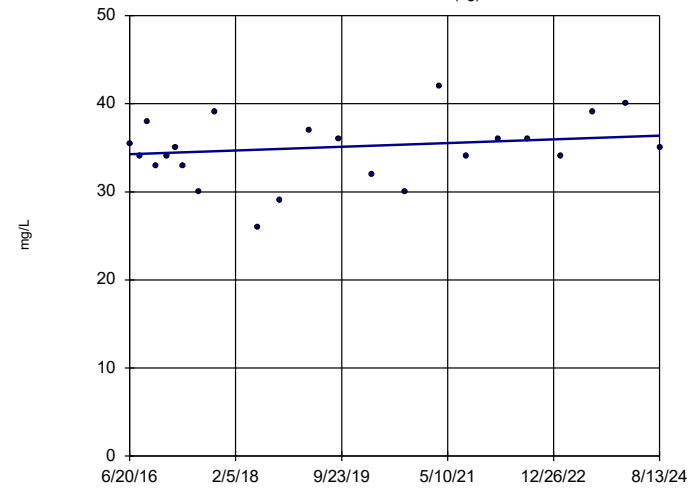


n = 23
 Slope = -0.3456
 units per year.
 Mann-Kendall
 statistic = -138
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

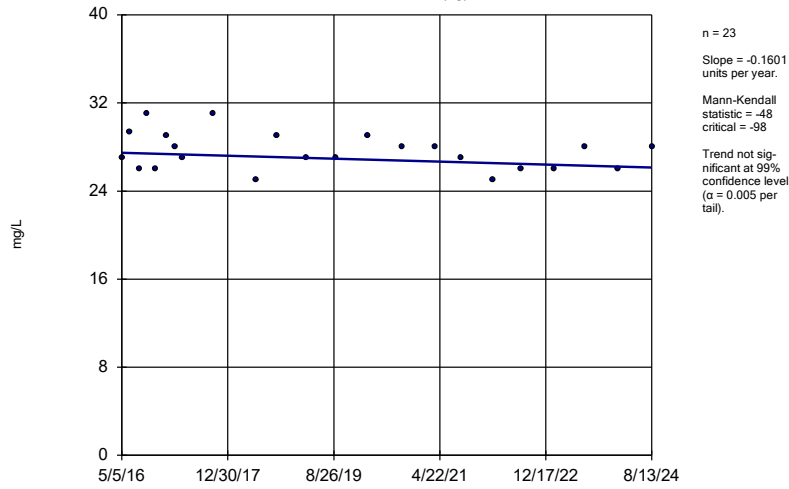


n = 23
 Slope = 0.2582
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

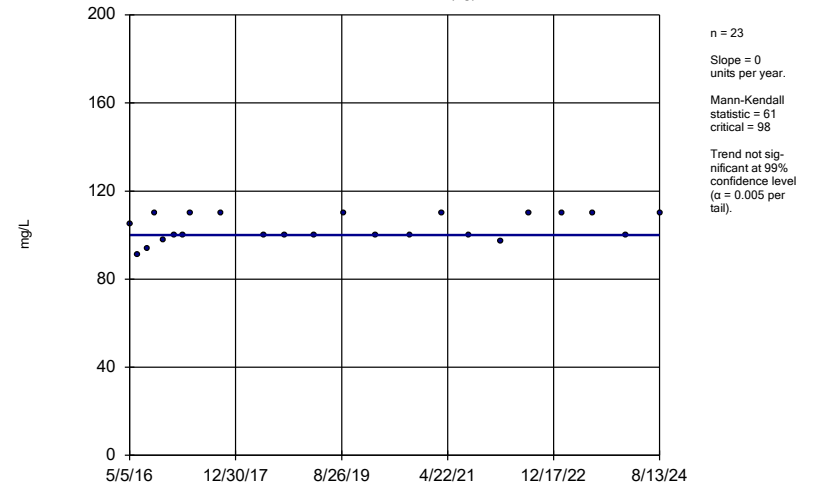
MGWA-5 (bg)



Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

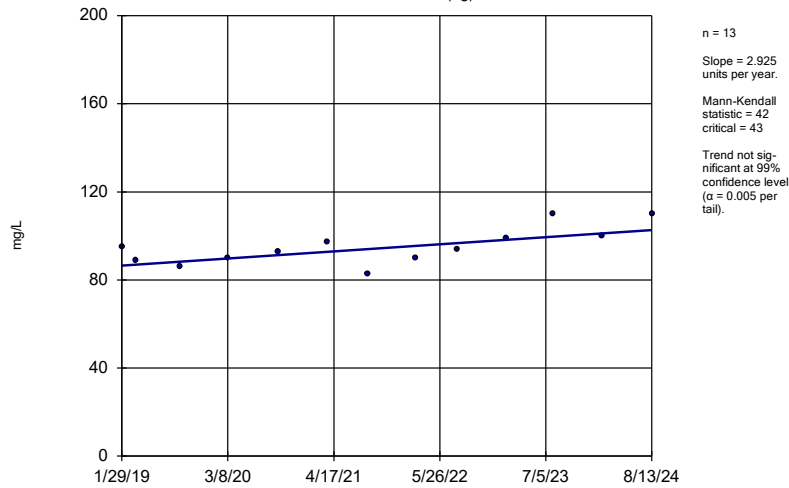
MGWA-6 (bg)



Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

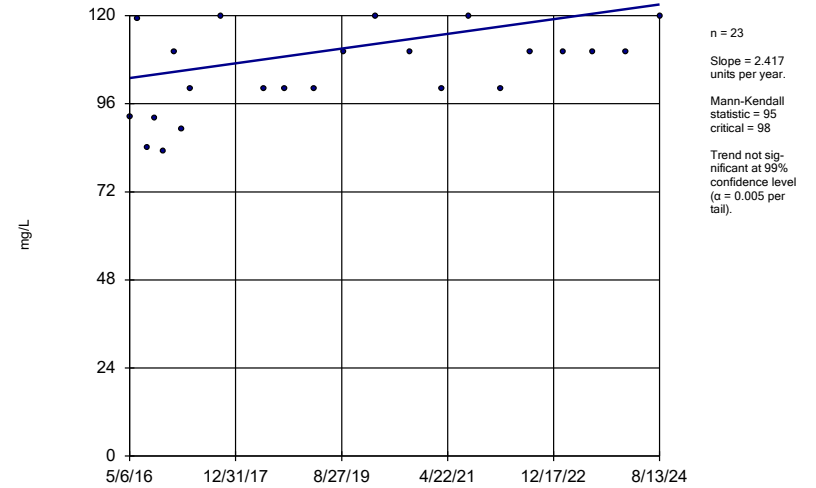
MGWA-6A (bg)



Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

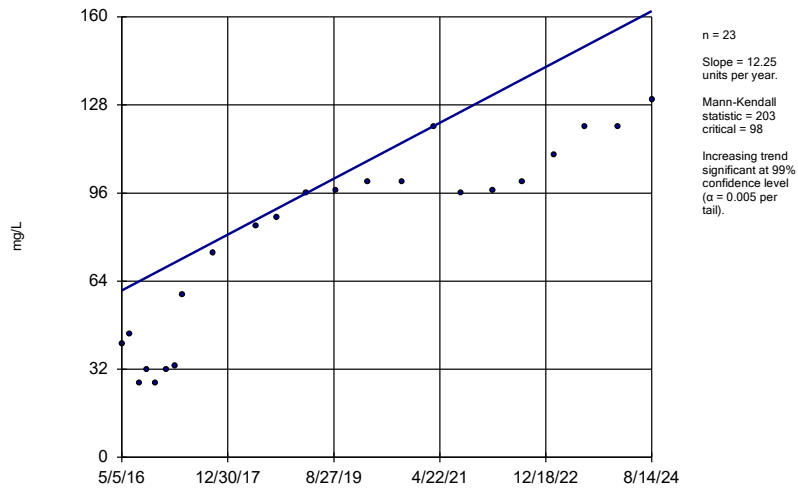
MGWC-1



Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

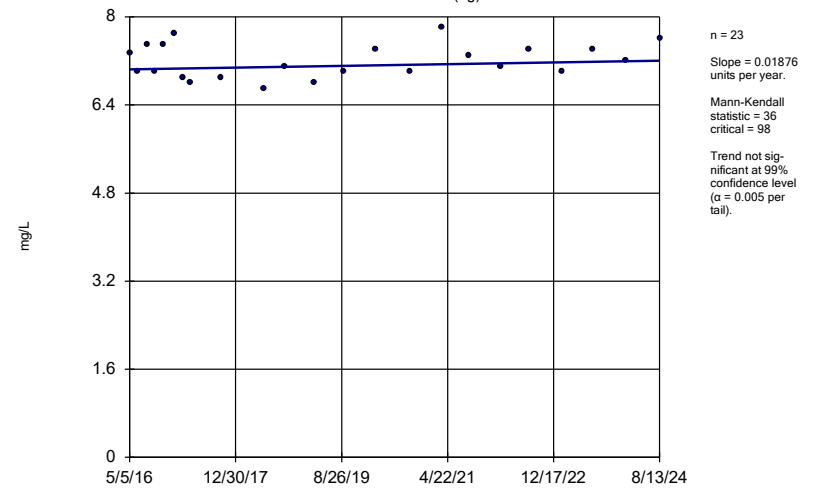
MGWC-8



Constituent: Calcium Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

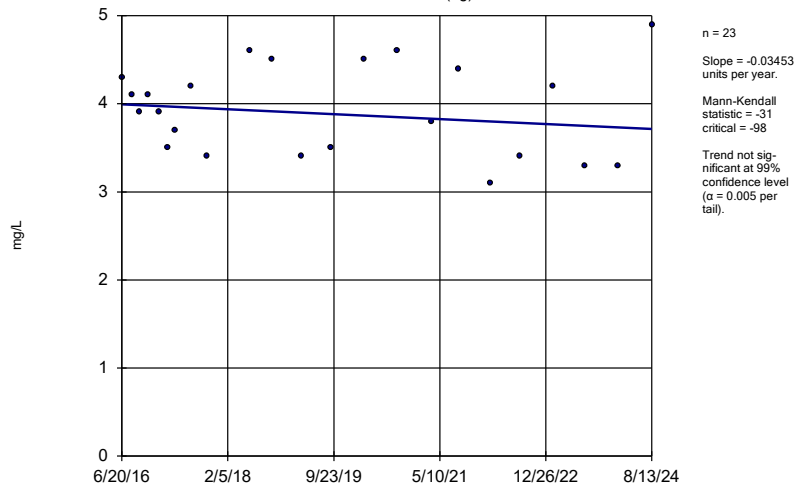
MGWA-10 (bg)



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

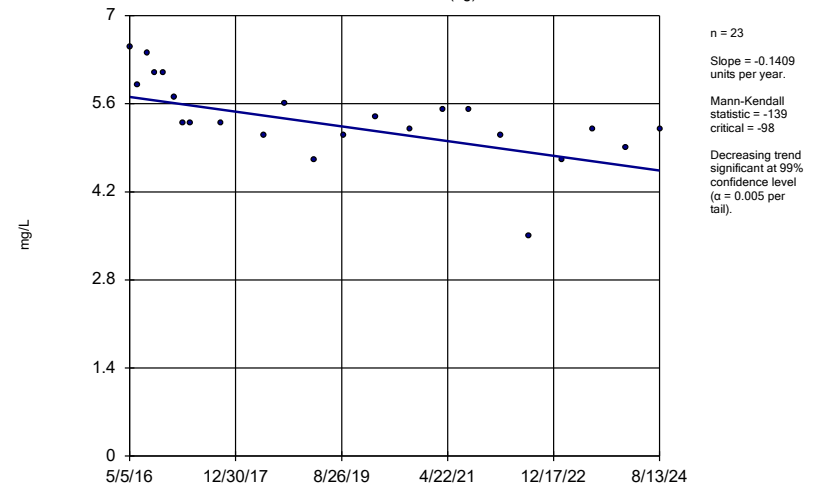
MGWA-11 (bg)



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

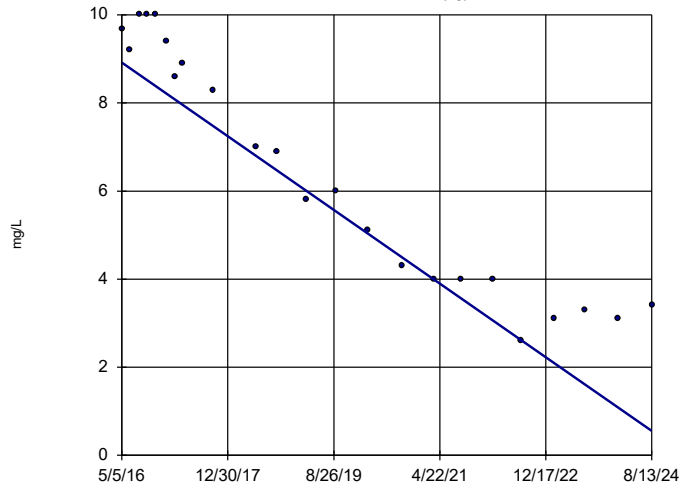
MGWA-5 (bg)



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)

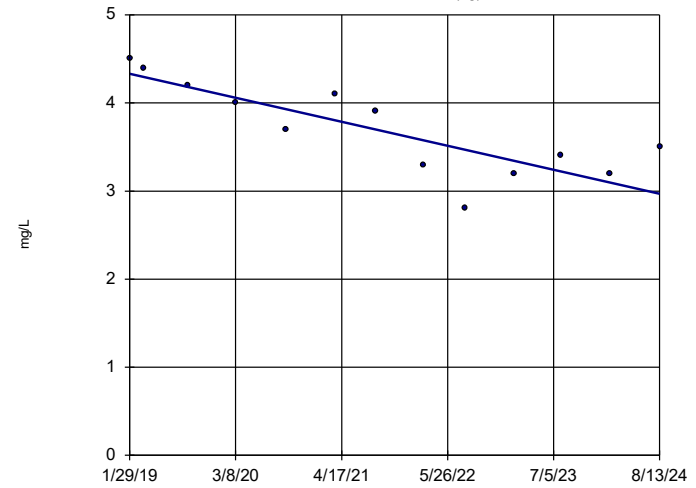


n = 23
Slope = -1.01
units per year.
Mann-Kendall
statistic = -212
critical = -98
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6A (bg)

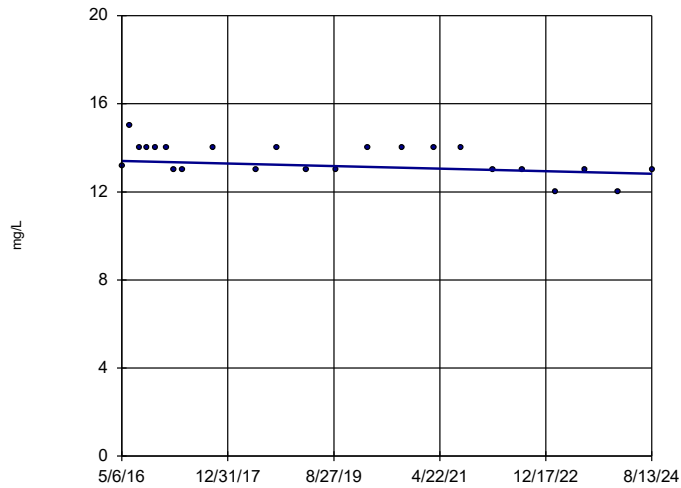


n = 13
Slope = -0.2462
units per year.
Mann-Kendall
statistic = -51
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

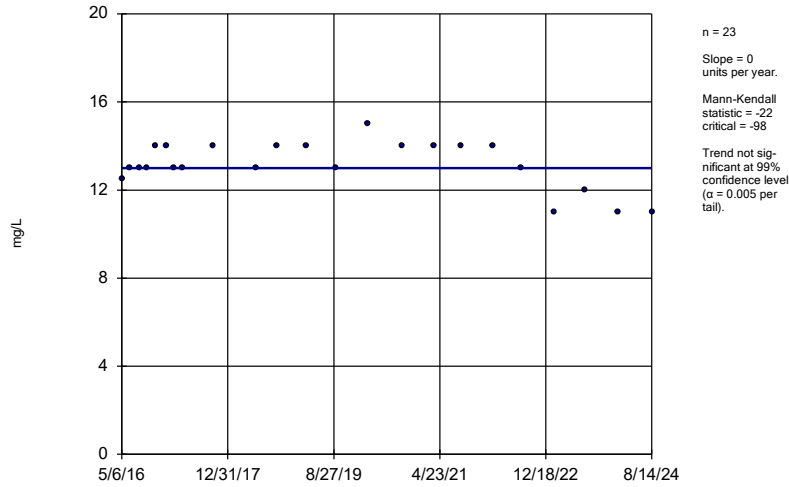
Sen's Slope Estimator

MGWC-1



Sen's Slope Estimator

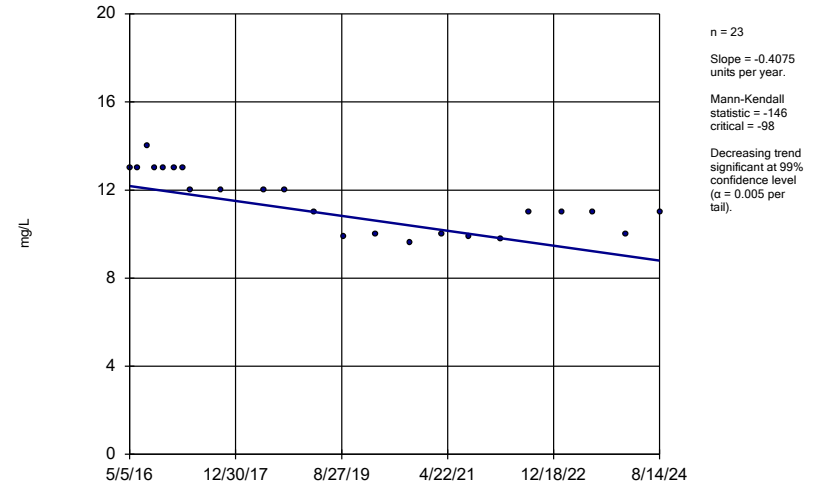
MGWC-3



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

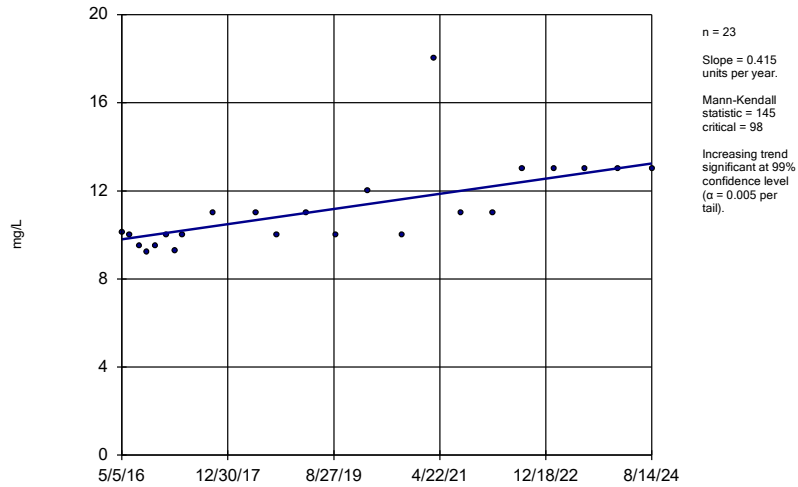
MGWC-7



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

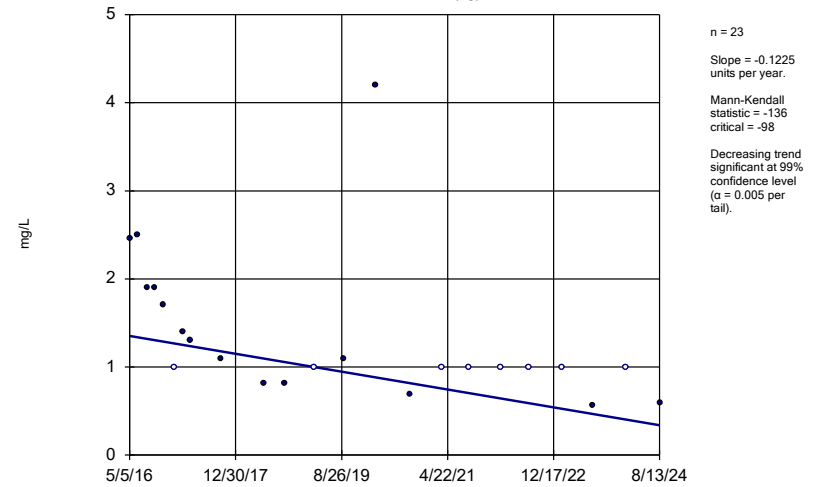
MGWC-8



Constituent: Chloride Analysis Run 9/27/2024 4:18 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

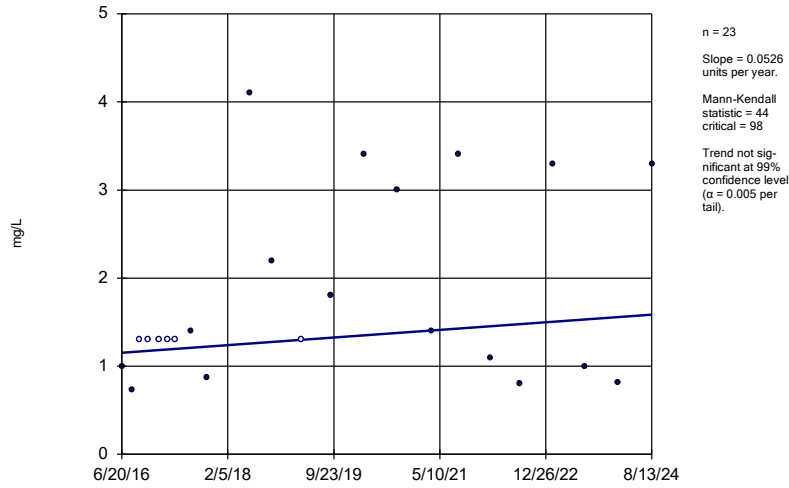
MGWA-10 (bg)



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

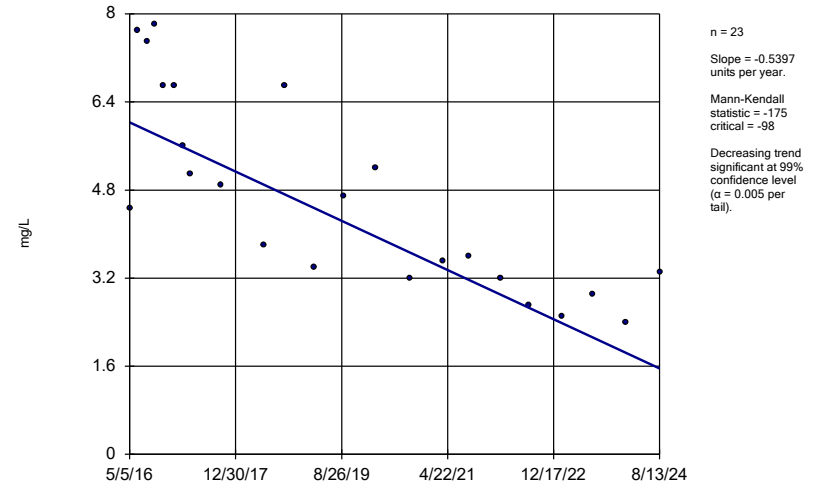
MGWA-11 (bg)



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

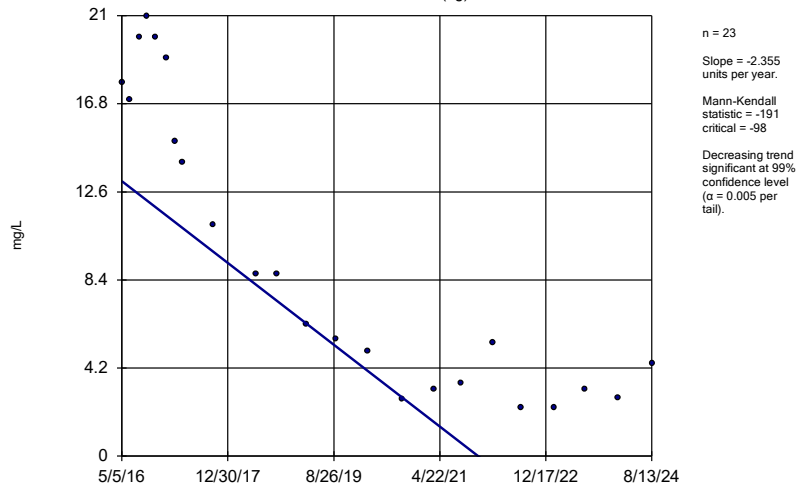
MGWA-5 (bg)



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

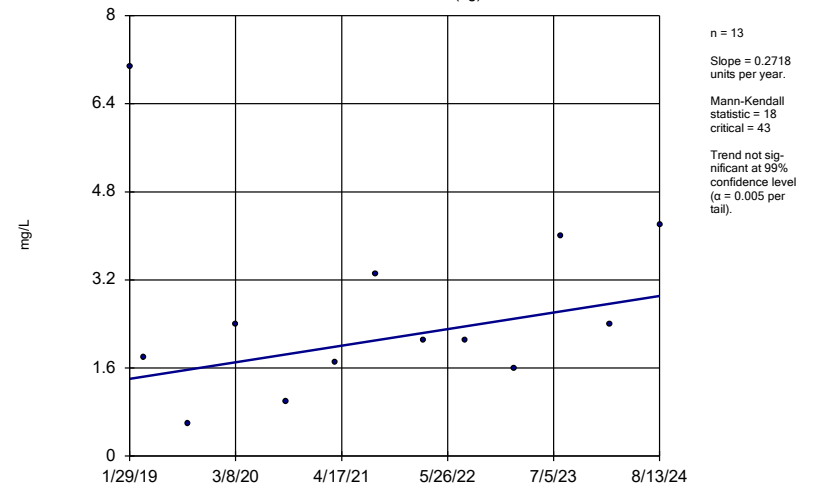
MGWA-6 (bg)



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

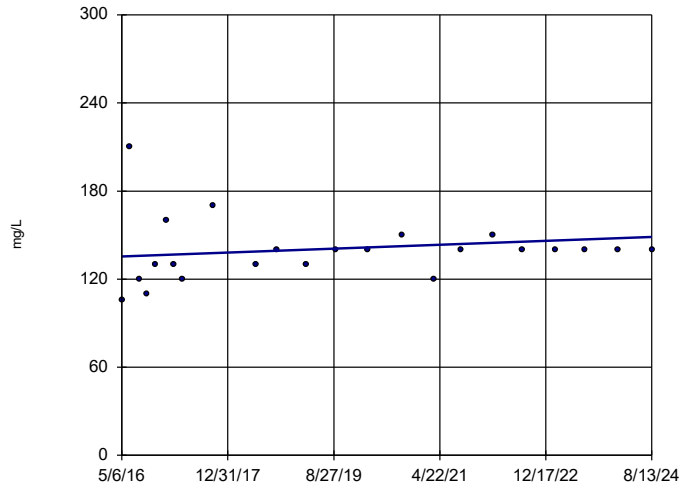
MGWA-6A (bg)



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-1

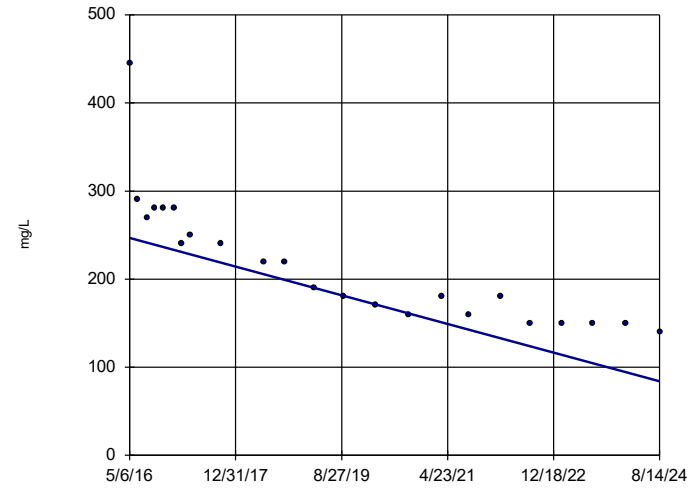


n = 23
 Slope = 1.604
 units per year.
 Mann-Kendall
 statistic = 59
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-2

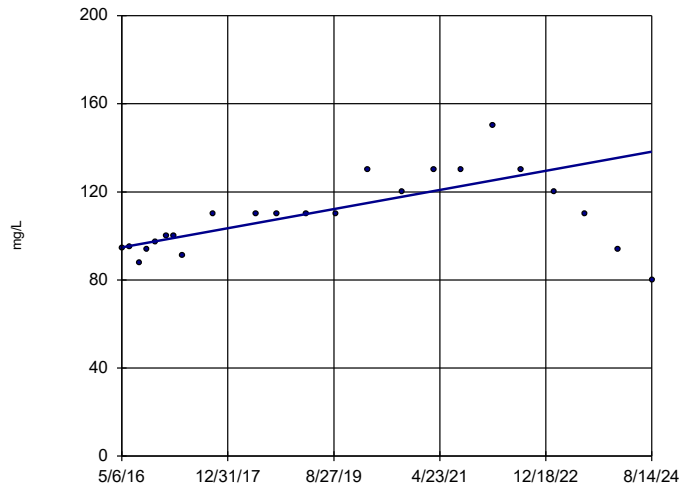


n = 23
 Slope = -19.67
 units per year.
 Mann-Kendall
 statistic = -220
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-3

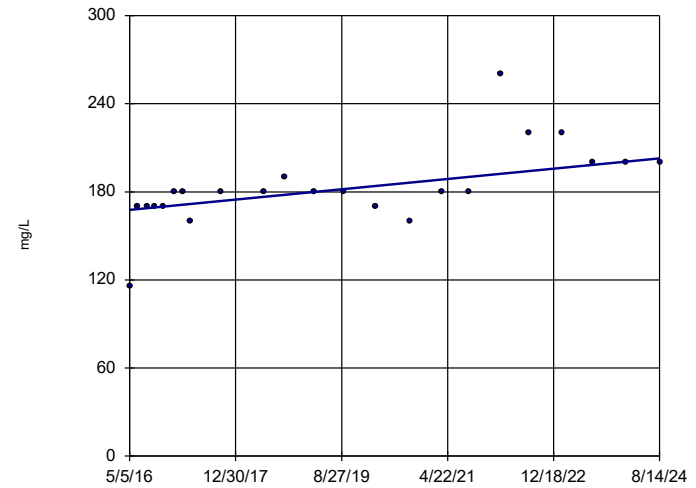


n = 23
 Slope = 5.24
 units per year.
 Mann-Kendall
 statistic = 101
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-7

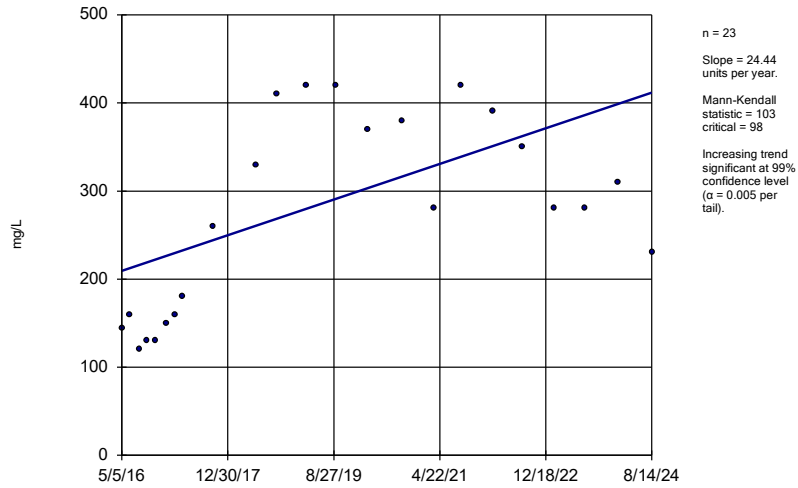


n = 23
 Slope = 4.244
 units per year.
 Mann-Kendall
 statistic = 130
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

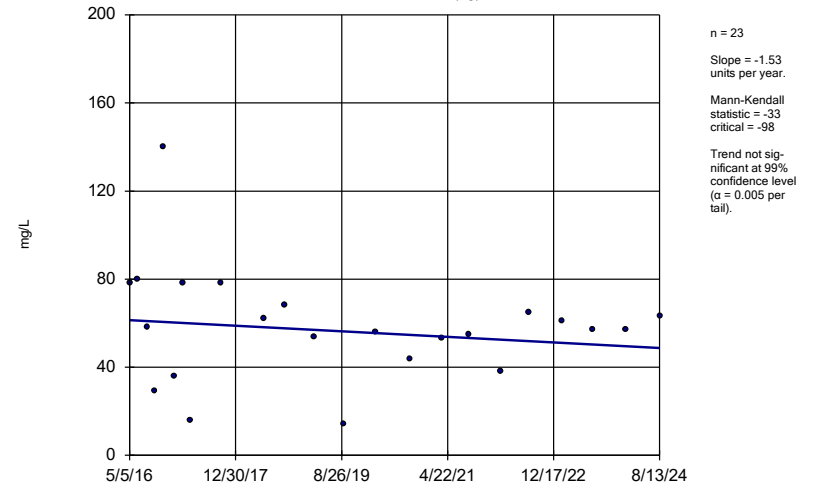
MGWC-8



Constituent: Sulfate Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

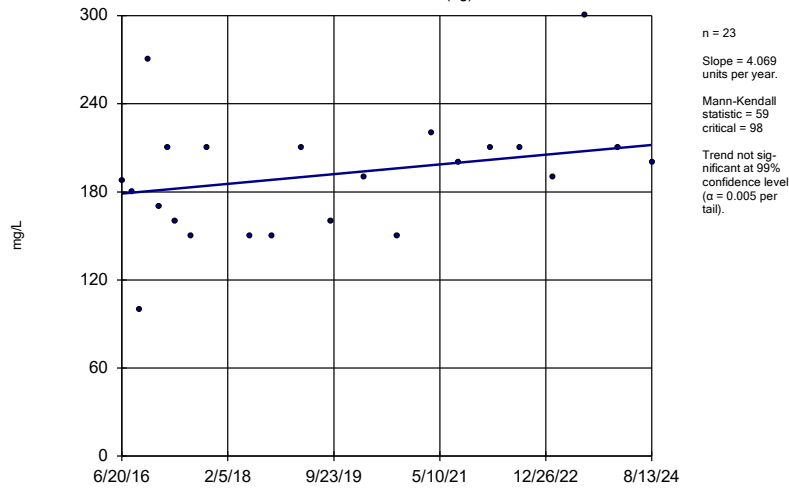
MGWA-10 (bg)



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

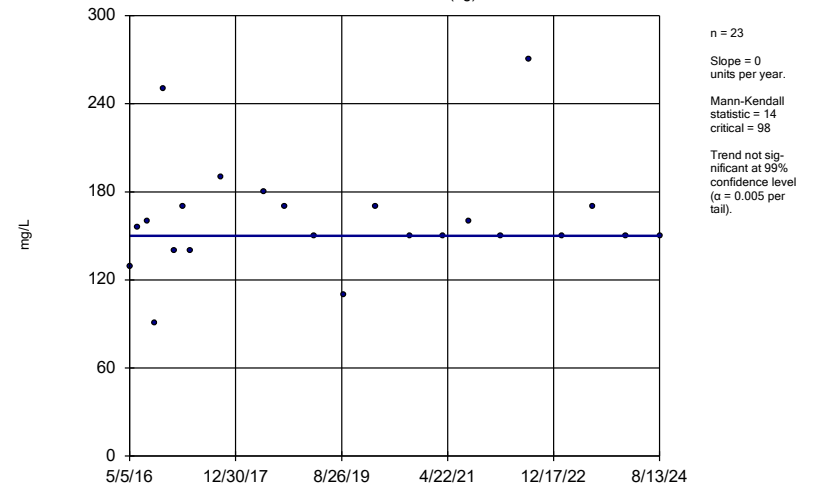
MGWA-11 (bg)



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

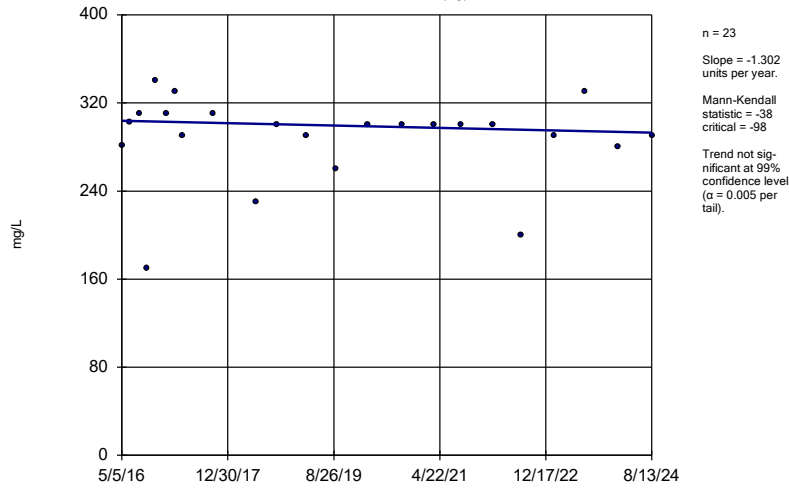
MGWA-5 (bg)



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

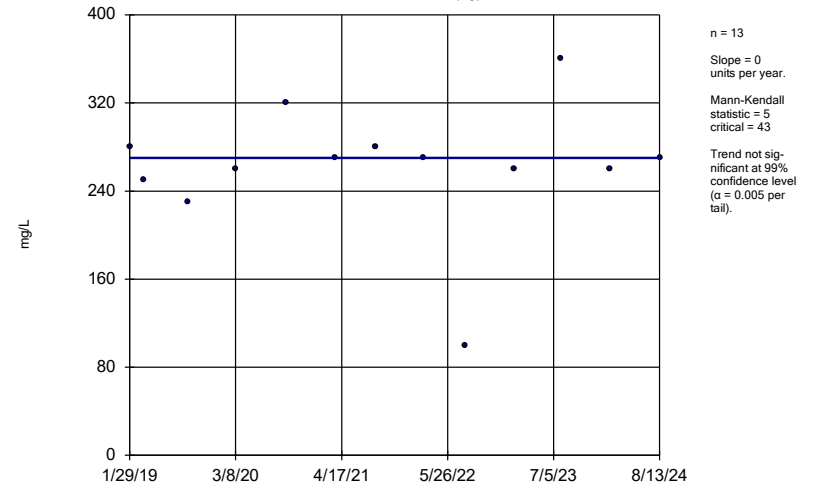
MGWA-6 (bg)



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

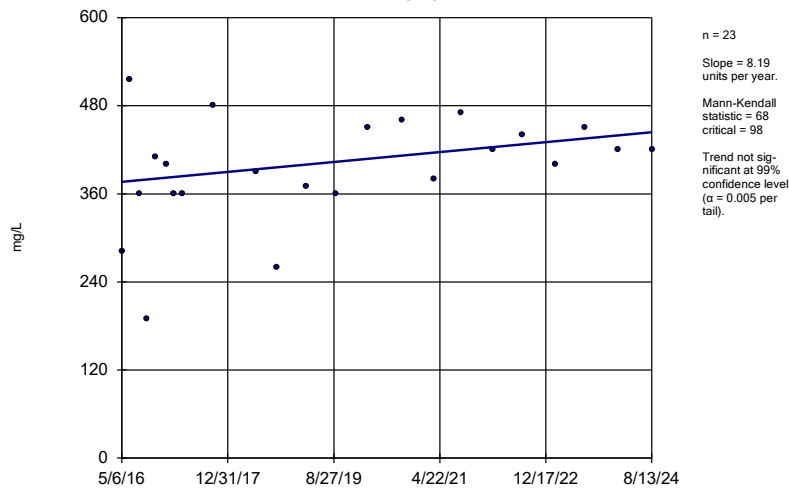
MGWA-6A (bg)



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

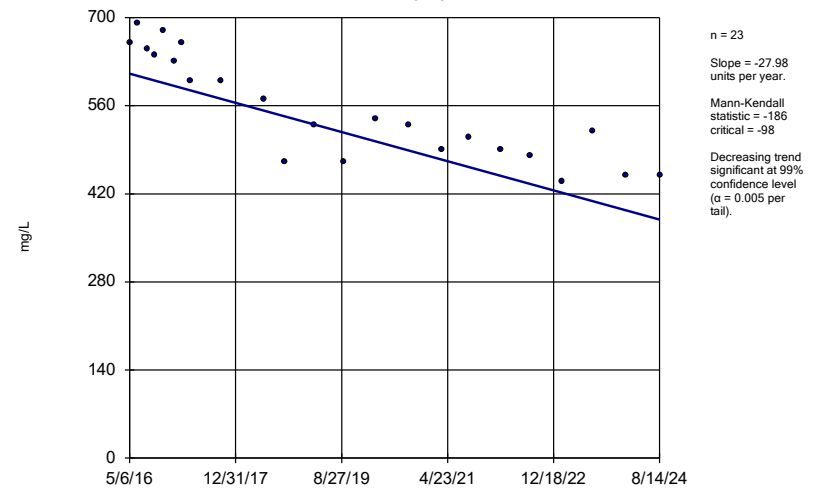
MGWC-1



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-2



Constituent: TDS Analysis Run 9/27/2024 4:19 PM View: Appendix III - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWC-8

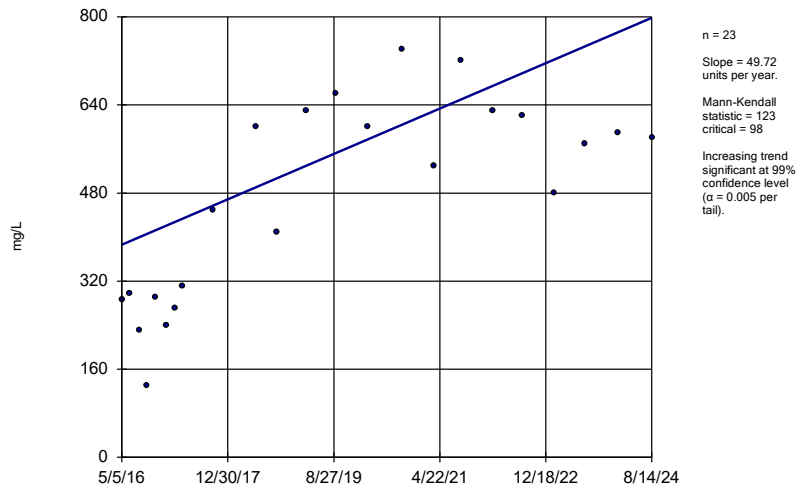


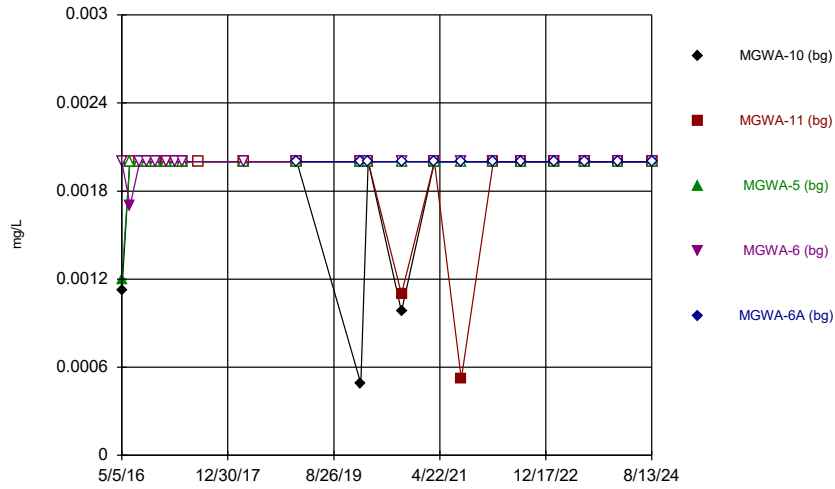
FIGURE F.

Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:23 PM

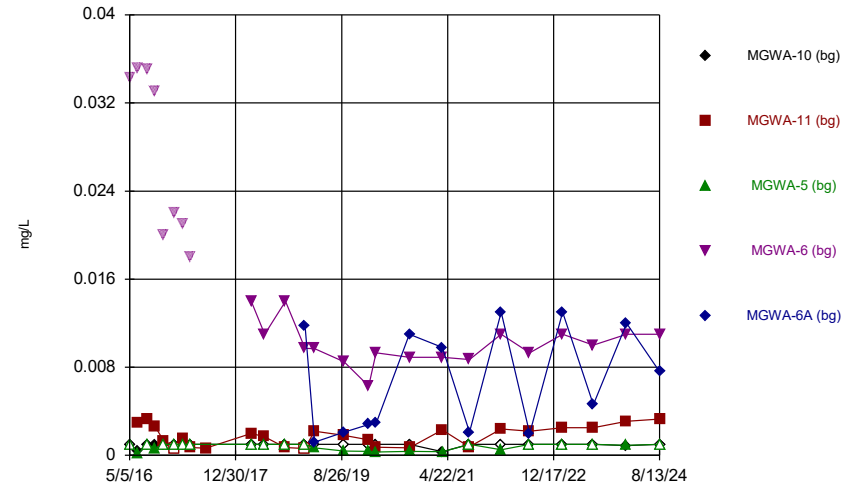
Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.002	96	n/a	n/a	92.71	n/a	n/a	0.007269	NP Inter(NDs)
Arsenic (mg/L)	0.014	106	n/a	n/a	34.91	n/a	n/a	0.004352	NP Inter(normality)
Barium (mg/L)	0.13	114	n/a	n/a	0	n/a	n/a	0.002887	NP Inter(normality)
Beryllium (mg/L)	0.0025	104	n/a	n/a	95.19	n/a	n/a	0.004822	NP Inter(NDs)
Cadmium (mg/L)	0.0025	114	n/a	n/a	99.12	n/a	n/a	0.002887	NP Inter(NDs)
Chromium (mg/L)	0.0066	104	n/a	n/a	73.08	n/a	n/a	0.004822	NP Inter(NDs)
Cobalt (mg/L)	0.0025	113	n/a	n/a	72.57	n/a	n/a	0.003039	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.235	115	0.6107	0.3277	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	109	n/a	n/a	32.11	n/a	n/a	0.003731	NP Inter(normality)
Lead (mg/L)	0.001	96	n/a	n/a	94.79	n/a	n/a	0.007269	NP Inter(NDs)
Lithium (mg/L)	0.037	114	n/a	n/a	29.82	n/a	n/a	0.002887	NP Inter(normality)
Mercury (mg/L)	0.0002	104	n/a	n/a	97.12	n/a	n/a	0.004822	NP Inter(NDs)
Molybdenum (mg/L)	0.015	104	n/a	n/a	64.42	n/a	n/a	0.004822	NP Inter(NDs)
Selenium (mg/L)	0.005	84	n/a	n/a	92.86	n/a	n/a	0.01345	NP Inter(NDs)
Thallium (mg/L)	0.001	104	n/a	n/a	85.58	n/a	n/a	0.004822	NP Inter(NDs)

Time Series



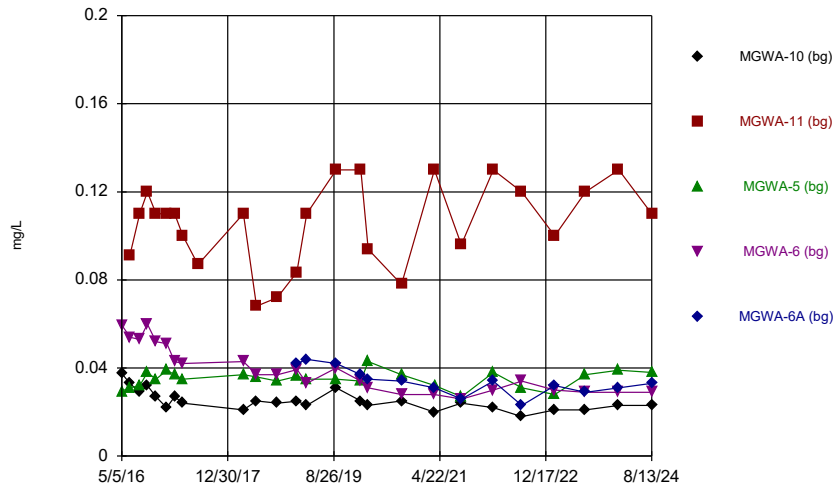
Constituent: Antimony Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



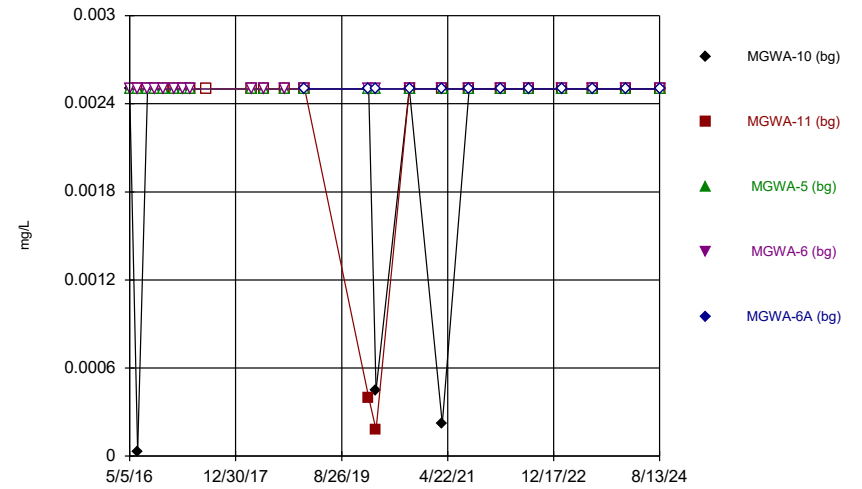
Constituent: Arsenic Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



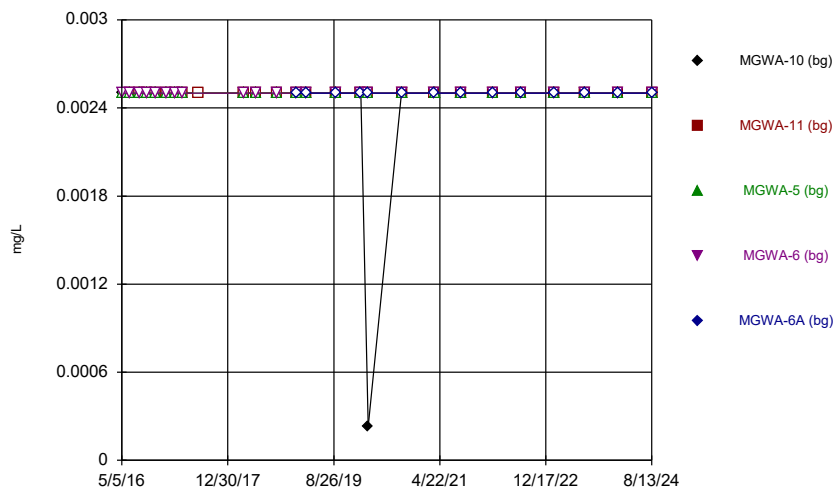
Constituent: Barium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



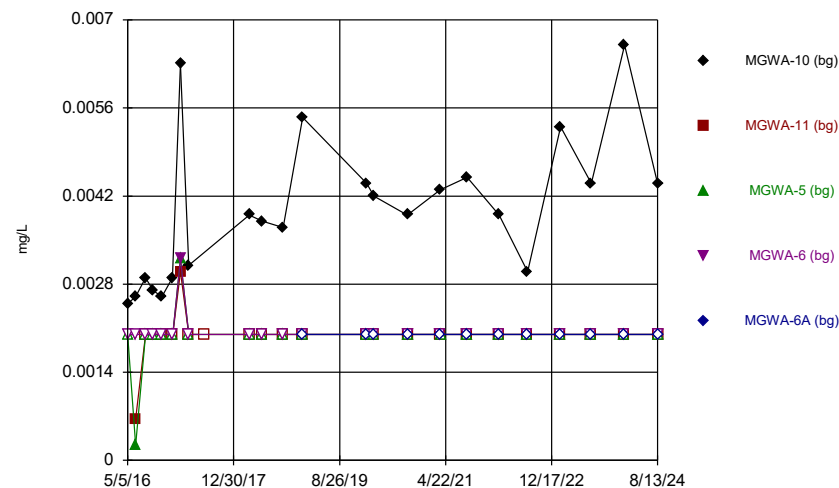
Constituent: Beryllium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



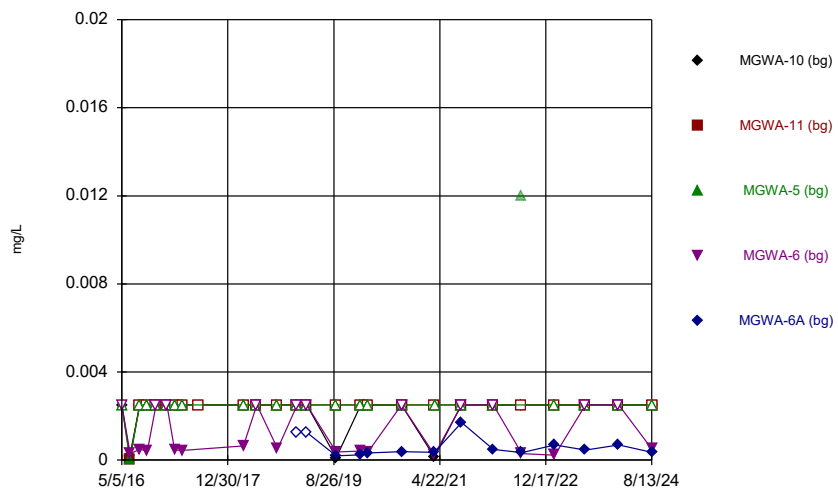
Constituent: Cadmium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



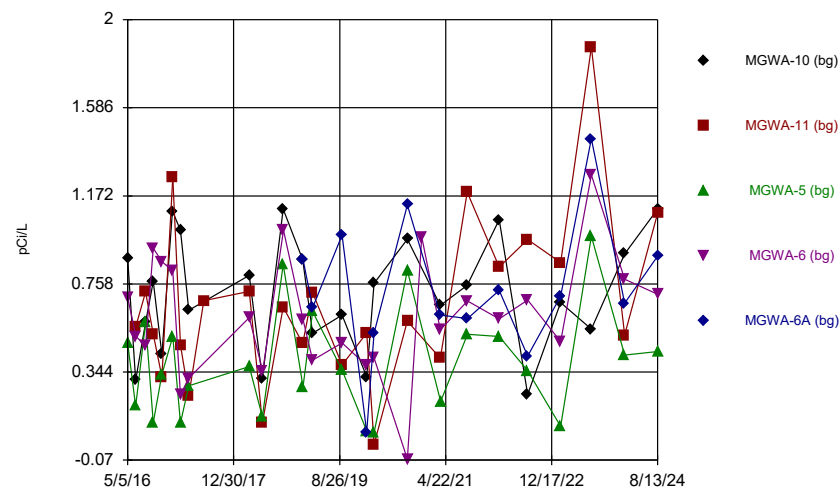
Constituent: Chromium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



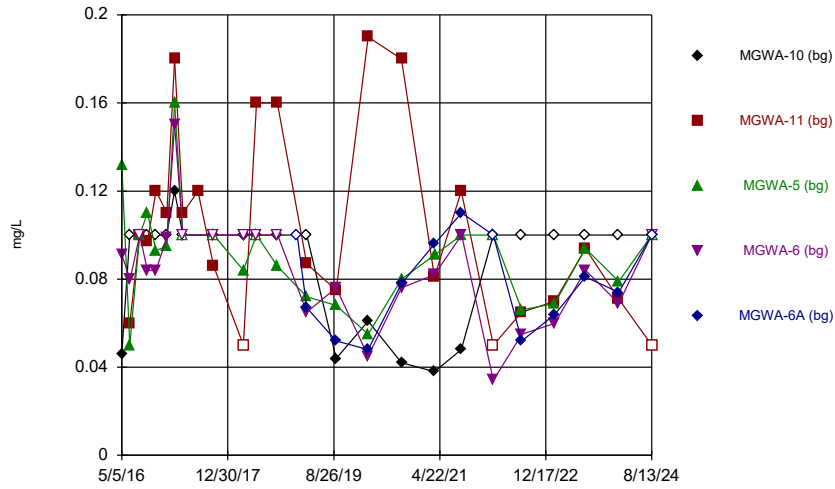
Constituent: Cobalt Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



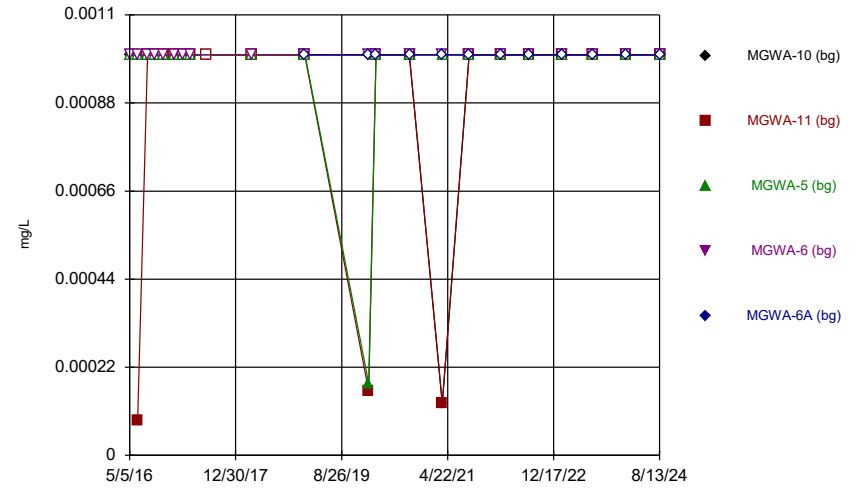
Constituent: Combined Radium 226 + 228 Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



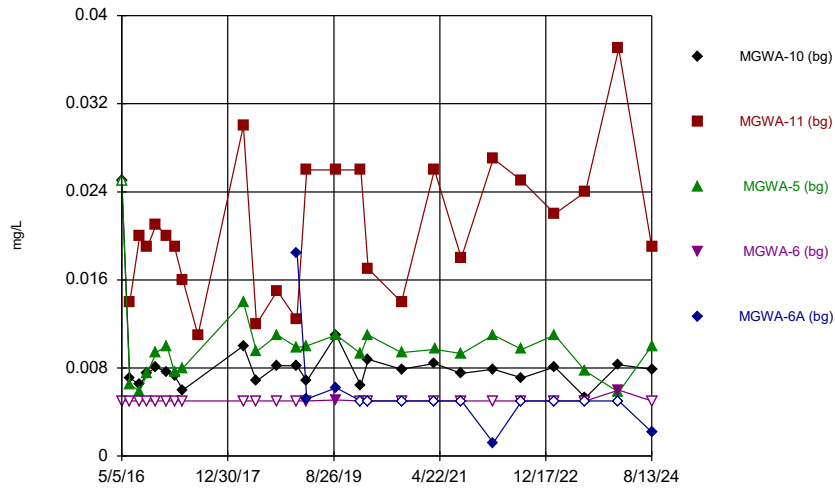
Constituent: Fluoride Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



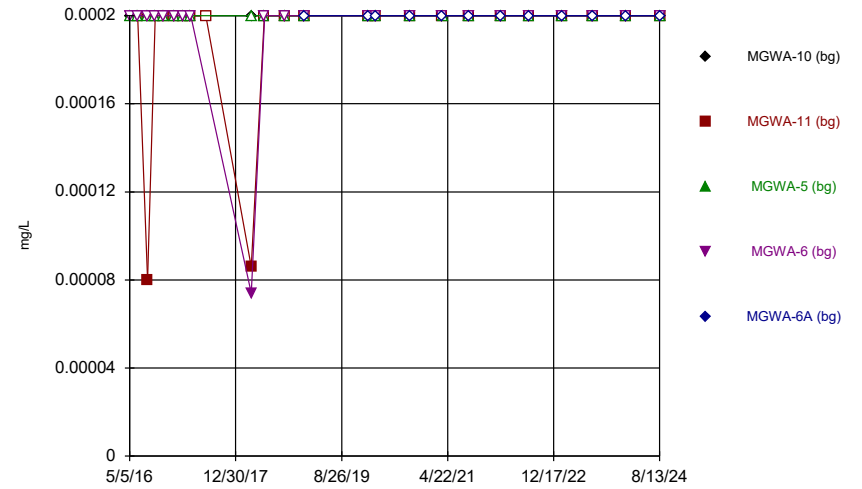
Constituent: Lead Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



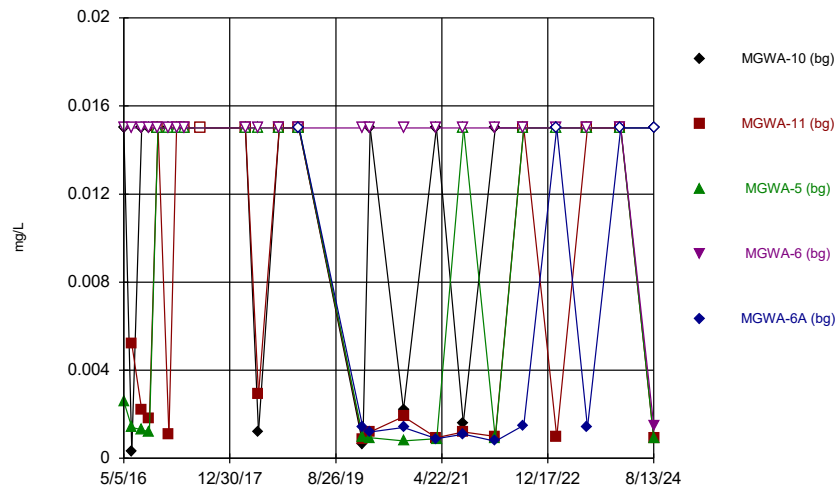
Constituent: Lithium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



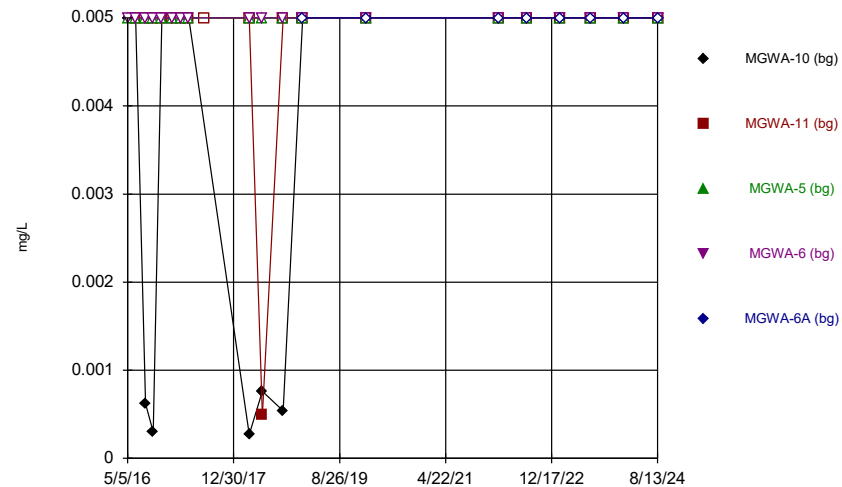
Constituent: Mercury Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



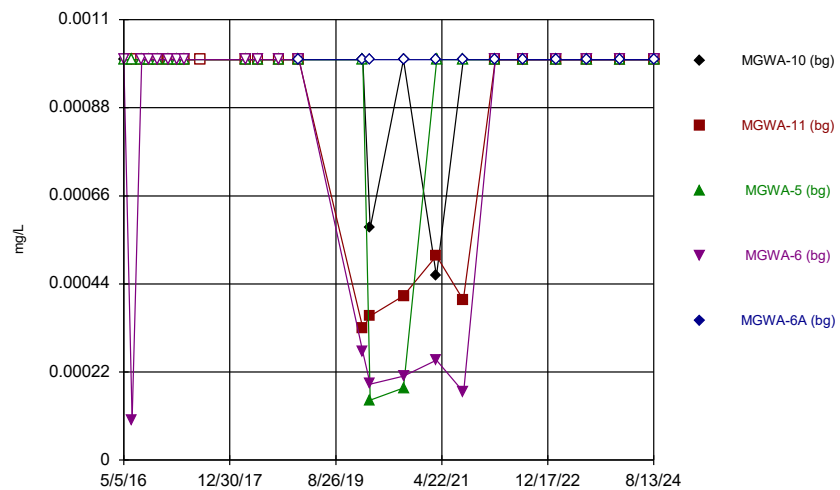
Constituent: Molybdenum Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



Constituent: Selenium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Time Series



Constituent: Thallium Analysis Run 9/27/2024 4:23 PM View: Appendix IV - UTLs
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

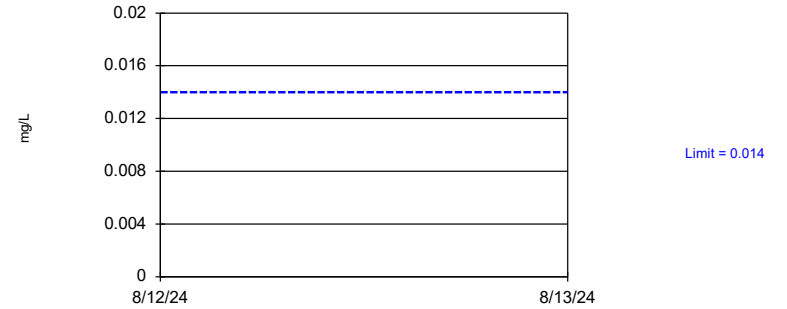
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 96 background values. 92.71% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.007269.

Constituent: Antimony Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 106 background values. 34.91% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Arsenic Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Barium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

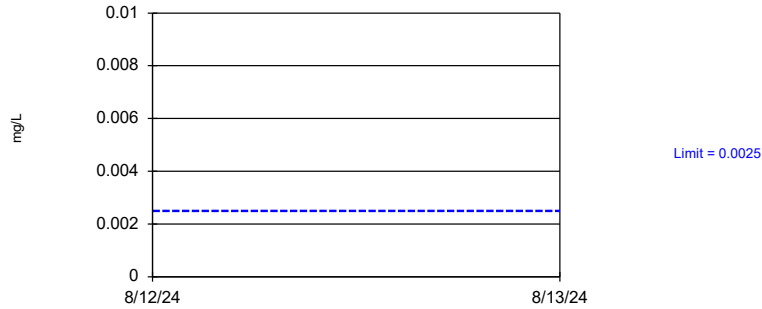
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 95.19% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Beryllium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

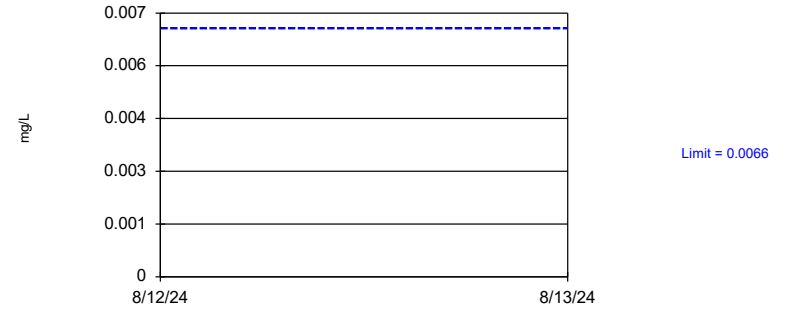
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 99.12% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Cadmium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 73.08% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Chromium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 113 background values. 72.57% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003039.

Constituent: Cobalt Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

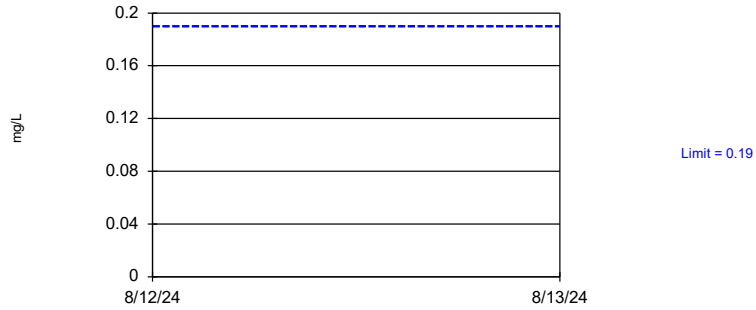
Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary: Mean=0.6107, Std. Dev.=0.3277, n=115. Normality test: Chi Squared @alpha = 0.01, calculated = 2.478, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

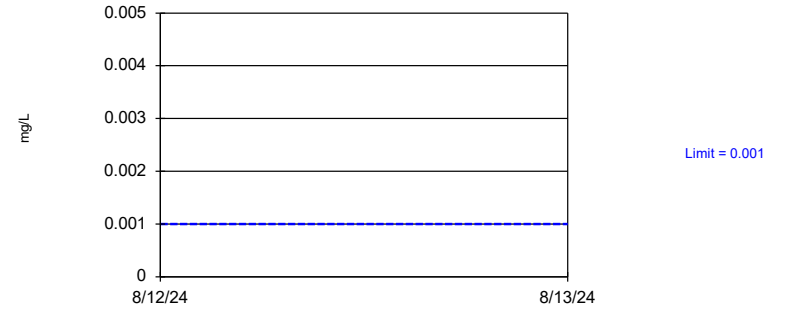
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 109 background values. 32.11% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003731.

Constituent: Fluoride Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

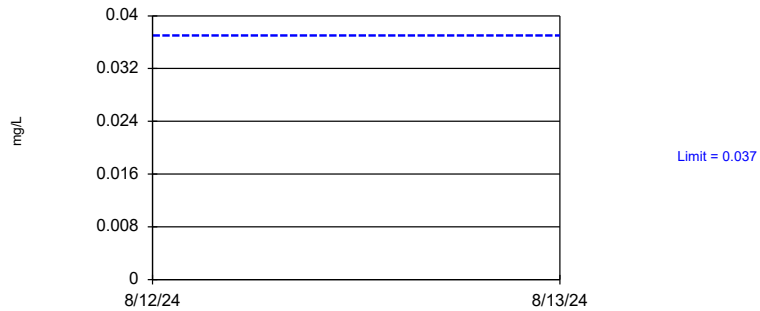
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 96 background values. 94.79% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.007269.

Constituent: Lead Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

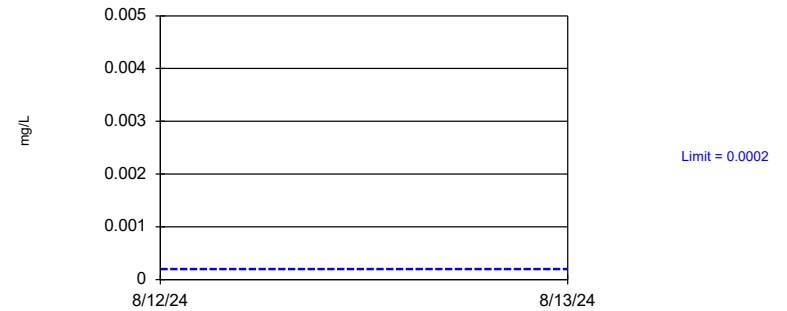
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. 29.82% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Lithium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

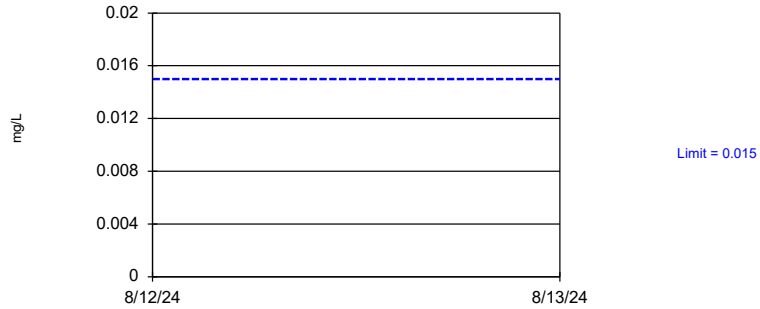
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 97.12% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Mercury Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

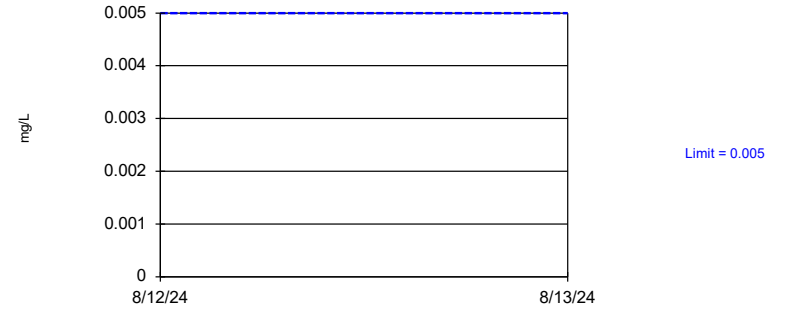
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 64.42% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Molybdenum Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

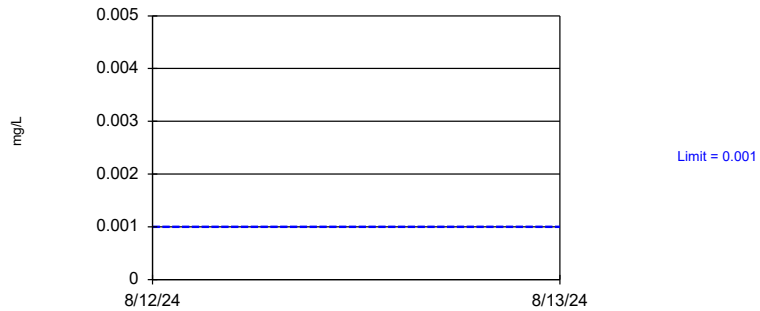
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 84 background values. 92.86% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Selenium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 104 background values. 85.58% NDs. 95.51% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004822.

Constituent: Thallium Analysis Run 9/27/2024 4:21 PM View: Appendix IV - UTLs
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

FIGURE G.

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.13	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.24	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

*GWPS = Groundwater Protection Standard

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWC-7	0.1341	0.1167	0.04	Yes 26	0.1243	0.01913	0	None	x^2	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No 21	0.0019	0.0003606	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.0003	0.006	No 21	0.001919	0.000371	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No 21	0.001928	0.0003249	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002678	0.001887	0.014	No 25	0.002282	0.0007941	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-12	0.001059	0.0006862	0.014	No 25	0.001011	0.0003445	32	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No 25	0.0009236	0.000188	84	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001808	0.001451	0.014	No 25	0.001629	0.0003578	4	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.0007857	0.000521	0.014	No 25	0.0008484	0.0002775	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MGWC-8	0.001	0.00099	0.014	No 25	0.0009752	0.0003098	60	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	MGWC-1	0.11	0.096	2	No 25	0.1073	0.01533	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06346	0.05045	2	No 25	0.05696	0.01304	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-2	0.05287	0.04741	2	No 25	0.05014	0.005476	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.157	0.1432	2	No 25	0.1501	0.01388	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.0152	0.011	2	No 25	0.0142	0.006748	4	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-8	0.04345	0.03485	2	No 25	0.0399	0.009743	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No 23	0.002399	0.0004838	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No 23	0.002405	0.0004566	95.65	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.00112	0.0005787	0.004	No 23	0.0013	0.000818	21.74	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No 25	0.00204	0.0009415	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002636	0.001059	0.005	No 25	0.002101	0.00187	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No 25	0.002143	0.0008365	84	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.001947	0.0007148	0.005	No 25	0.001945	0.001793	24	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0036	0.0014	0.1	No 23	0.002043	0.0003616	91.3	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No 23	0.003191	0.005634	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0033	0.002	0.1	No 23	0.002057	0.0002711	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No 23	0.002043	0.0002085	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No 23	0.002009	0.0003502	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No 23	0.002017	0.0002774	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.00047	0.006	No 26	0.001783	0.001021	65.38	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No 26	0.002372	0.0004918	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.003059	0.00212	0.006	No 26	0.00259	0.0009635	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00067	0.00051	0.006	No 26	0.0007319	0.0004479	11.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.006104	0.002246	0.006	No 8	0.004175	0.00182	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01318	0.005218	0.006	No 26	0.01058	0.00816	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.747	1.359	5	No 26	1.553	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.731	0.4562	5	No 25	0.5936	0.2757	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7639	0.4571	5	No 25	0.6105	0.3077	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.748	1.391	5	No 26	1.569	0.3664	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.335	0.9957	5	No 25	1.166	0.3409	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.851	1.285	5	No 25	1.568	0.5681	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2235	0.1439	4	No 24	0.1837	0.07797	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-12	0.251	0.1984	4	No 24	0.2182	0.06096	0	None	x^2	0.01	Param.
Fluoride (mg/L)	MGWC-2	0.09927	0.07246	4	No 24	0.09442	0.02773	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	MGWC-3	0.1	0.082	4	No 24	0.09746	0.0331	29.17	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3106	0.1997	4	No 24	0.2552	0.1087	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.0983	0.06631	4	No 24	0.09663	0.02587	16.67	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No 21	0.0009571	0.0001964	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No 21	0.0009652	0.0001593	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No 21	0.0008905	0.0002755	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No 21	0.0009629	0.0001702	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	MGWC-1	0.01189	0.01004	0.04	No 26	0.01097	0.001893	3.846	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02272	0.01746	0.04	No 26	0.02009	0.005393	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0066	0.0051	0.04	No 26	0.00648	0.003923	3.846	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01327	0.01136	0.04	No 26	0.01232	0.001959	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-7	0.1341	0.1167	0.04	Yes 26	0.1243	0.01913	0	None	x^2	0.01	Param.

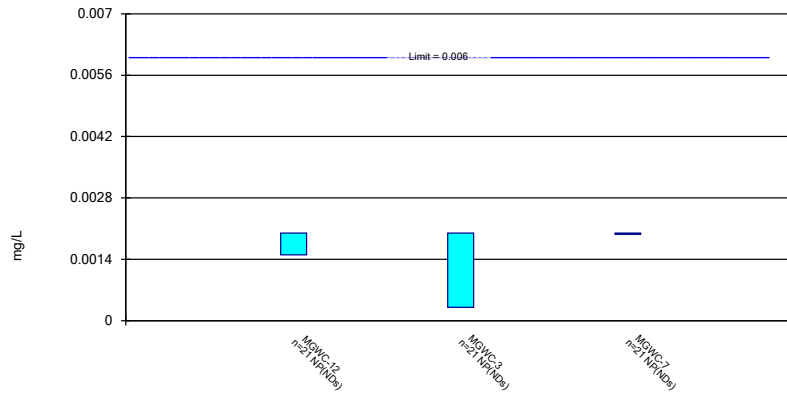
Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 1/16/2025, 12:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-8	0.03541	0.02303	0.04	No 26	0.02922	0.01271	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-20	0.01417	0	0.04	No 4	0.00645	0.003399	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No 23	0.0001896	0.00003462	91.3	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No 23	0.0001903	0.00003215	91.3	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No 23	0.0001943	0.00002711	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No 23	0.0001948	0.00002502	95.65	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00028	0.00015	0.002	No 24	0.0004152	0.0008041	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-1	0.0021	0.0011	0.1	No 23	0.01424	0.02851	17.39	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No 23	0.01146	0.006102	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No 23	0.0145	0.002396	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No 23	0.01451	0.002356	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No 19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No 19	0.004751	0.001085	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No 19	0.004761	0.001044	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No 19	0.00476	0.001046	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No 19	0.004751	0.001087	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No 19	0.004125	0.001791	78.95	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No 23	0.0008176	0.0003561	78.26	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No 23	0.0009313	0.0002283	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No 23	0.0009657	0.0001647	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No 23	0.0009361	0.0002141	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00018	0.002	No 23	0.00053	0.0003931	39.13	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

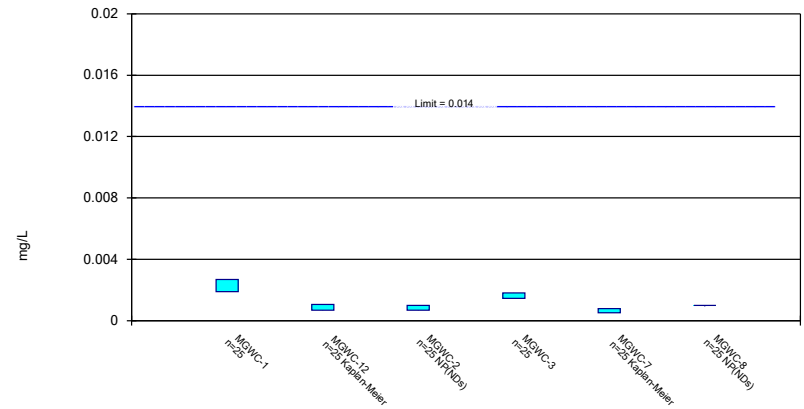
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

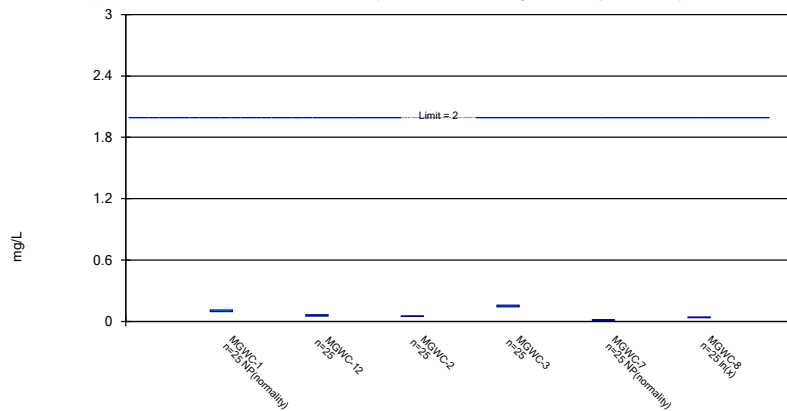
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

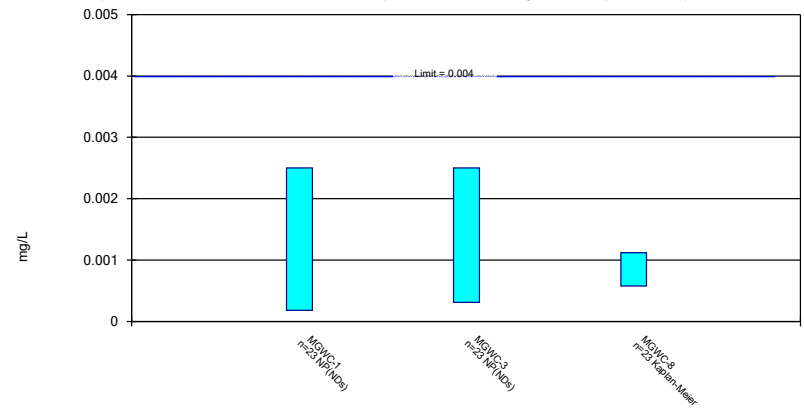
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

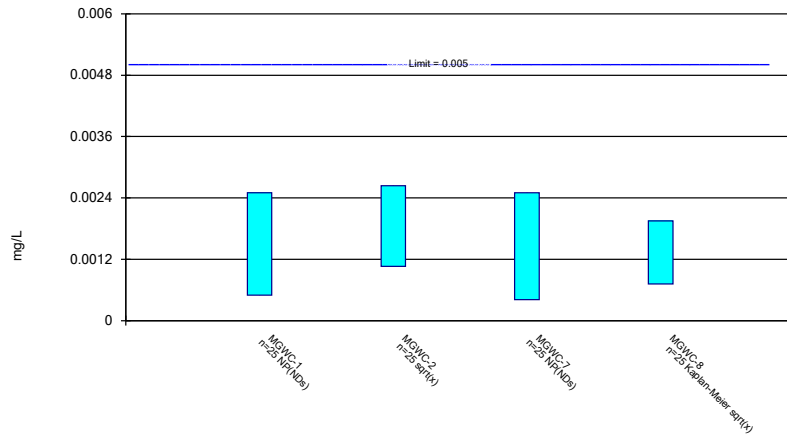
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

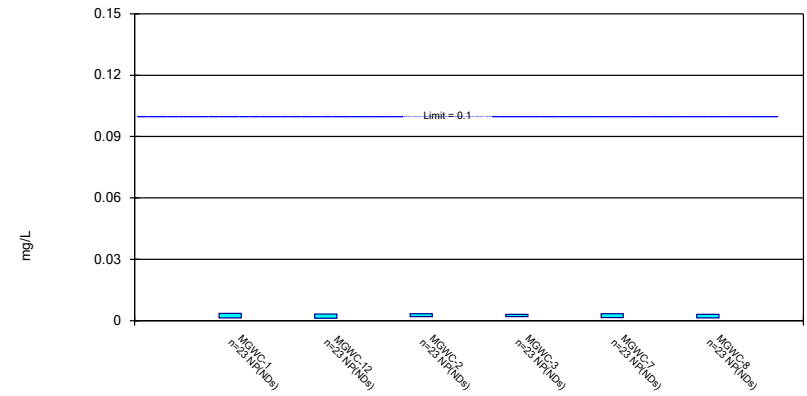
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

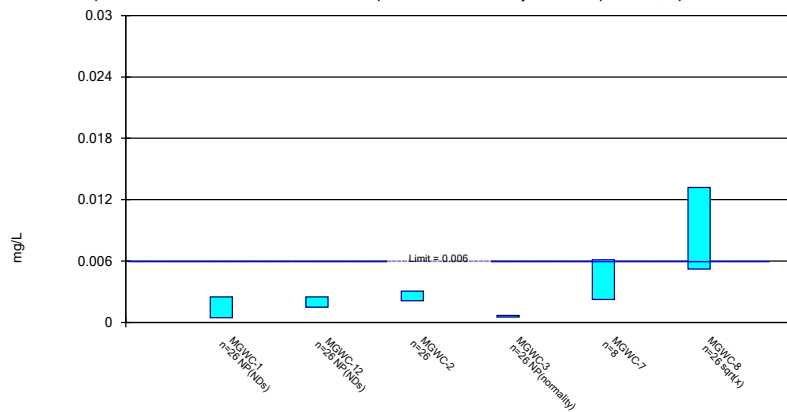
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

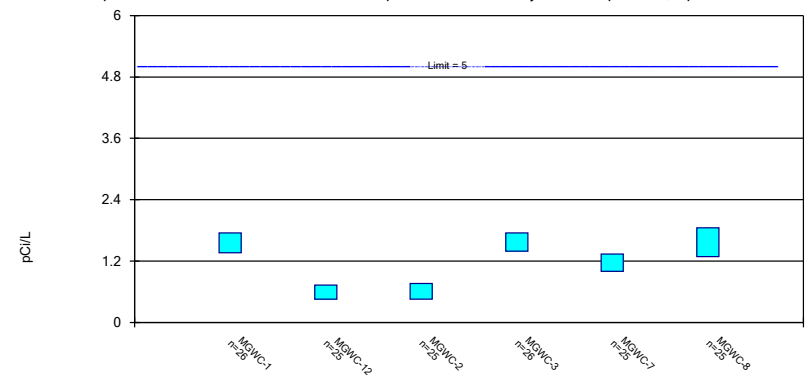
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric Confidence Interval

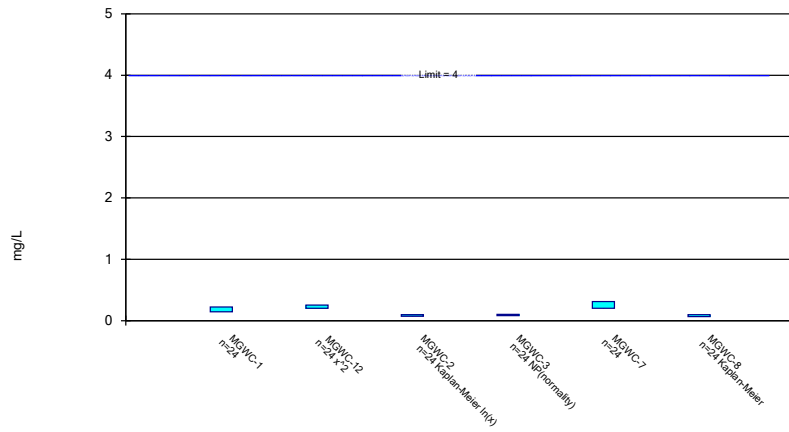
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

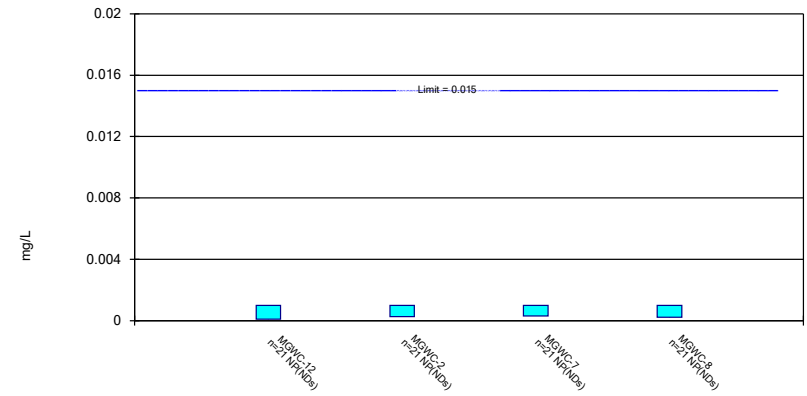
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/16/2025 12:57 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

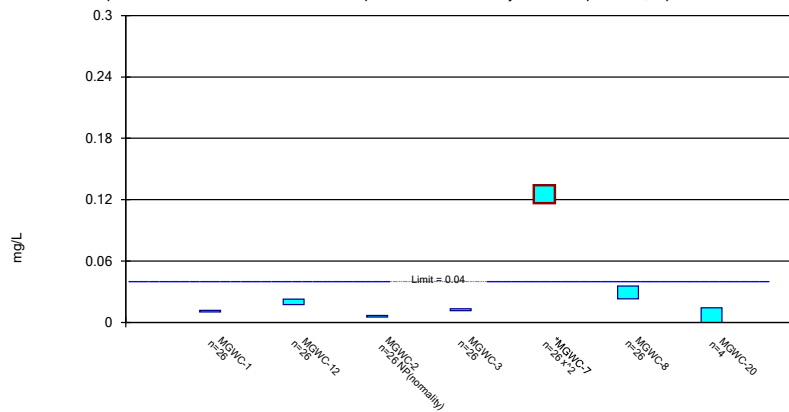
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/16/2025 12:57 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

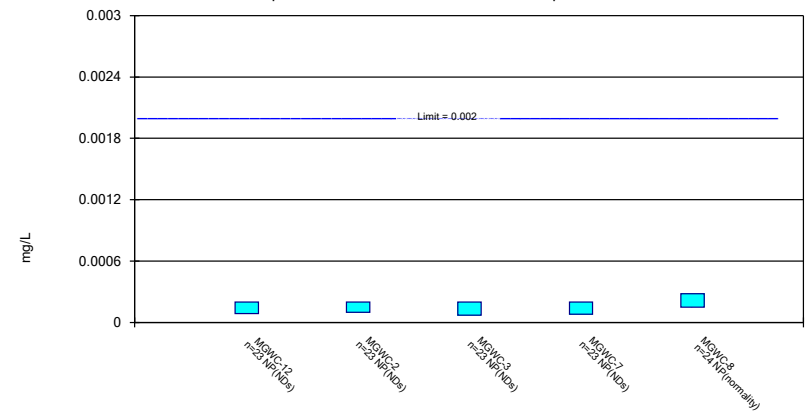
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

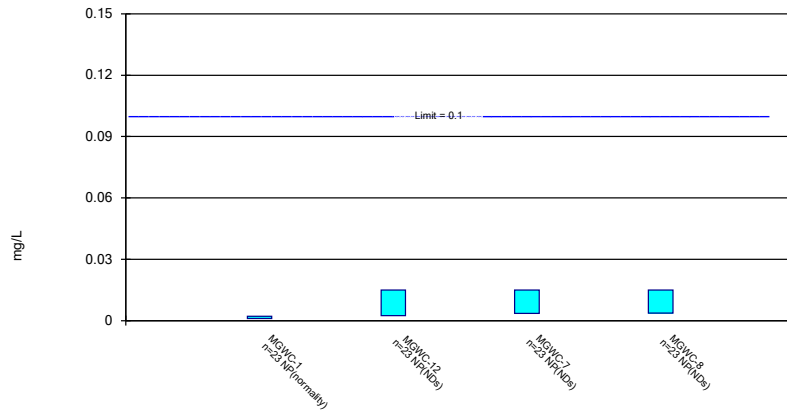
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/16/2025 12:57 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

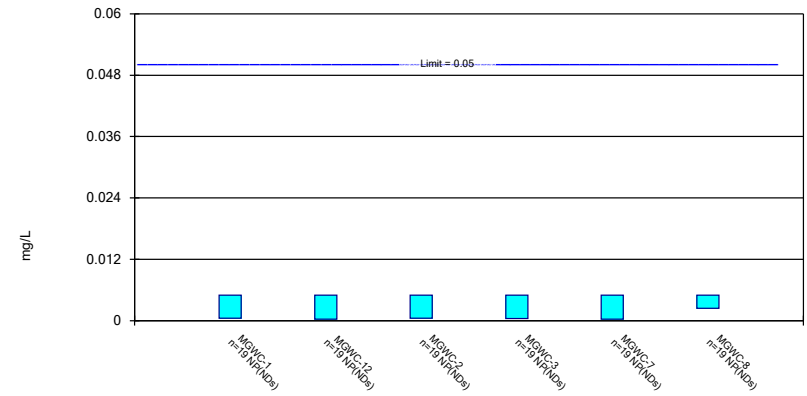
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

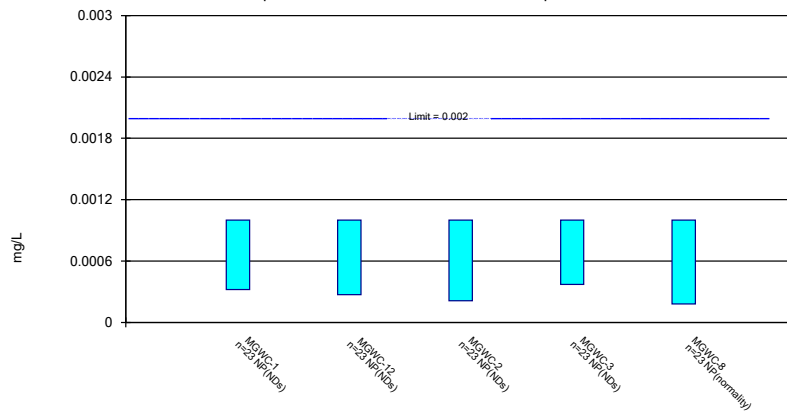
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/16/2025 12:57 PM View: Appendix IV
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWC-3	MGWC-7
5/5/2016			0.00197 (J)
5/6/2016		<0.002	
6/21/2016	0.0004 (J)	0.0003 (J)	<0.002
8/15/2016			<0.002
8/16/2016	<0.002	<0.002	
9/28/2016			<0.002
9/29/2016	<0.002	<0.002	
11/16/2016	<0.002	<0.002	<0.002
1/17/2017		<0.002	<0.002
1/18/2017	<0.002		
3/2/2017	<0.002	<0.002	<0.002
4/18/2017		<0.002	<0.002
4/25/2017	<0.002		
7/13/2017	<0.002		
3/29/2018	<0.002		<0.002
3/30/2018		<0.002	
1/29/2019	<0.002	<0.002	<0.002
1/28/2020	<0.002		<0.002
1/29/2020		<0.002	
3/10/2020	<0.002	<0.002	<0.002
9/16/2020	<0.002		
9/17/2020		<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002
8/24/2021		<0.002	
8/25/2021	<0.002		<0.002
2/22/2022	<0.002		
2/23/2022		<0.002	<0.002
8/2/2022	0.0015 (J)		
8/3/2022		<0.002	<0.002
2/7/2023	<0.002	<0.002	
2/8/2023			0.00051 (J)
8/1/2023		<0.002	
8/2/2023	<0.002		<0.002
2/6/2024			<0.002
2/7/2024	<0.002	<0.002	
8/14/2024	<0.002	<0.002	<0.002
Mean	0.0019	0.001919	0.001928
Std. Dev.	0.0003606	0.000371	0.0003249
Upper Lim.	0.002	0.002	0.002
Lower Lim.	0.0015	0.0003	0.00197

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.00143 (J)	<0.001
5/6/2016	0.00299 (J)		<0.001	0.00154 (J)		
6/21/2016	0.0047 (J)	0.0015 (J)	<0.001	0.0016 (J)	0.0009 (J)	<0.001
8/15/2016					0.0012 (J)	<0.001
8/16/2016	0.003	0.00082 (J)	<0.001	0.0017		
9/28/2016	0.0036				0.00084 (J)	<0.001
9/29/2016		0.0019	<0.001	0.0013		
11/16/2016	0.003	0.0017	0.00068 (J)	0.0014	<0.001	<0.001
1/17/2017				0.00056 (J)	<0.001	<0.001
1/18/2017		0.00096 (J)	<0.001			
1/19/2017	0.0024					
3/2/2017	0.0027	0.00082 (J)	0.00065 (J)	0.0018	0.0009 (J)	<0.001
4/18/2017	0.0024			0.0018	0.0005 (J)	0.00059 (J)
4/19/2017			<0.001			
4/25/2017		<0.001				
7/13/2017		0.00047 (J)				
3/29/2018	0.0023	0.00053 (J)			0.00066 (J)	
3/30/2018			<0.001	0.0017		<0.001
6/12/2018		0.00063 (J)				
6/13/2018	0.0021		<0.001	0.0015	<0.001	<0.001
10/10/2018	0.0024	0.00098 (J)	<0.001	0.0016	<0.001	<0.001
1/29/2019	0.00255	<0.001	<0.001	0.00143	<0.001	<0.001
3/26/2019	0.002	0.00079 (J)	<0.001	0.0012 (J)	<0.001	<0.001
9/10/2019	0.0018	0.0011	0.00036 (J)	0.0017	0.00074 (J)	0.00056 (J)
1/28/2020		0.00051 (J)			0.00046 (J)	
1/29/2020	0.0021		0.0004 (J)	0.0017		0.00047 (J)
3/10/2020	0.0019	<0.001	<0.001	<0.005	<0.001	<0.001
9/16/2020		<0.001	<0.001			
9/17/2020	0.002			0.0015	0.00045 (J)	<0.001
3/24/2021	0.0024	<0.001	<0.001	0.0018	0.00046 (J)	0.00099 (J)
8/24/2021			<0.001	0.0014		
8/25/2021	0.00092 (J)	<0.001			0.00055 (J)	<0.001
2/22/2022	0.0014	0.00089 (J)				
2/23/2022			<0.001	0.0016	0.0004 (J)	0.00044 (J)
8/2/2022		0.0015				
8/3/2022	0.0015			0.0016	0.00052 (J)	
8/4/2022			<0.001			0.00075 (J)
2/7/2023		0.00098 (J)		0.0018		
2/8/2023	0.0016		<0.001		<0.001	0.001
8/1/2023	0.0012			0.0017		0.00098 (J)
8/2/2023		<0.001	<0.001		<0.001	
2/6/2024	0.0023				0.0012	
2/7/2024		0.0012	<0.001	0.0021		0.0017
8/13/2024	0.0018					
8/14/2024		<0.001	<0.001	0.0022	<0.001	0.0019
Mean	0.002282	0.001011	0.0009236	0.001629	0.0008484	0.0009752
Std. Dev.	0.0007941	0.0003445	0.000188	0.0003578	0.0002775	0.0003098
Upper Lim.	0.002678	0.001059	0.001	0.001808	0.0007857	0.001
Lower Lim.	0.001887	0.0006862	0.00068	0.001451	0.000521	0.00099

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.039	0.0364
5/6/2016	0.11		0.0605	0.151		
6/21/2016	0.165	0.0439	0.0613	0.174	0.0152	0.0386
8/15/2016					0.015	0.03
8/16/2016	0.094	0.041	0.052	0.13		
9/28/2016	0.1				0.014	0.034
9/29/2016		0.052	0.053	0.14		
11/16/2016	0.096	0.044	0.056	0.14	0.013	0.034
1/17/2017				0.16	0.014	0.038
1/18/2017		0.056	0.06			
1/19/2017	0.12					
3/2/2017	0.097	0.04	0.056	0.15	0.013	0.037
4/18/2017	0.092			0.14	0.011	0.04
4/19/2017			0.051			
4/25/2017		0.042				
7/13/2017		0.043				
3/29/2018	0.095	0.061			0.01	
3/30/2018			0.049	0.13		0.041
6/12/2018		0.063				
6/13/2018	0.096		0.05	0.14	0.0098	0.038
10/10/2018	0.095	0.071	0.046	0.13	0.011	0.035
1/29/2019	0.107	0.06	0.0496	0.138	<0.0025	0.0344
3/26/2019	0.096	0.06	0.048	0.13	0.0086	0.032
9/10/2019	0.11	0.073	0.053	0.15	0.012	0.035
1/28/2020		0.069			0.012	
1/29/2020	0.11		0.051	0.15		0.033
3/10/2020	0.13	0.056	0.049	0.15	0.013	0.036
9/16/2020		0.1	0.048			
9/17/2020	0.11			0.16	0.0091 (J)	0.028
3/24/2021	0.1	0.056	0.049	0.16	0.011	0.054
8/24/2021			0.047	0.16		
8/25/2021	0.11	0.051			0.013	0.031
2/22/2022	0.11	0.067				
2/23/2022			0.046	0.17	0.014	0.036
8/2/2022		0.057				
8/3/2022	0.11			0.15	0.018	
8/4/2022			0.042			0.043
2/7/2023		0.06		0.16		
2/8/2023	0.1		0.044		0.02	0.052
8/1/2023	0.1			0.16		0.056
8/2/2023		0.055	0.04		0.015	
2/6/2024	0.12				0.024	
2/7/2024		0.055	0.047	0.18		0.061
8/13/2024	0.11					
8/14/2024		0.048	0.045	0.15	0.019	0.064
Mean	0.1073	0.05696	0.05014	0.1501	0.0142	0.0399
Std. Dev.	0.01533	0.01304	0.005476	0.01388	0.006748	0.009743
Upper Lim.	0.11	0.06346	0.05287	0.157	0.0152	0.04345
Lower Lim.	0.096	0.05045	0.04741	0.1432	0.011	0.03485

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-3	MGWC-8
5/5/2016			<0.0025
5/6/2016	<0.0025	<0.0025	
6/21/2016	<0.0025	<0.0025	0.0004 (J)
8/15/2016			0.00053 (J)
8/16/2016	<0.0025	<0.0025	
9/28/2016	<0.0025		0.00049 (J)
9/29/2016		<0.0025	
11/16/2016	<0.0025	<0.0025	0.0004 (J)
1/17/2017		<0.0025	0.00084 (J)
1/19/2017	<0.0025		
3/2/2017	<0.0025	<0.0025	0.00068 (J)
4/18/2017	<0.0025	<0.0025	0.00067 (J)
3/29/2018	<0.0025		
3/30/2018		<0.0025	0.0015 (J)
6/13/2018	<0.0025	<0.0025	0.0012 (J)
10/10/2018	<0.0025	<0.0025	0.0016 (J)
1/29/2019	<0.0025	<0.0025	<0.0025
1/29/2020	0.00018 (J)	0.00031 (J)	0.0019
3/10/2020	<0.0025	<0.0025	0.0013 (J)
9/17/2020	<0.0025	<0.0025	0.0019 (J)
3/24/2021	<0.0025	<0.0025	<0.0025
8/24/2021		<0.0025	
8/25/2021	<0.0025		0.0015 (J)
2/22/2022	<0.0025		
2/23/2022		<0.0025	0.0014 (J)
8/3/2022	<0.0025	<0.0025	
8/4/2022			0.00064 (J)
2/7/2023		<0.0025	
2/8/2023	<0.0025		0.0002 (J)
8/1/2023	<0.0025	<0.0025	0.00025 (J)
2/6/2024	<0.0025		
2/7/2024		<0.0025	<0.0025
8/13/2024	<0.0025		
8/14/2024		<0.0025	<0.0025
Mean	0.002399	0.002405	0.0013
Std. Dev.	0.0004838	0.0004566	0.000818
Upper Lim.	0.0025	0.0025	0.00112
Lower Lim.	0.00018	0.00031	0.0005787

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-2	MGWC-7	MGWC-8
5/5/2016			<0.0025	0.000784 (J)
5/6/2016	0.000126 (J)	0.00166		
6/21/2016	0.0005 (J)	0.0008 (J)	<0.0025	0.0003 (J)
8/15/2016			<0.0025	<0.0025
8/16/2016	<0.0025	0.0034		
9/28/2016	<0.0025		<0.0025	<0.0025
9/29/2016		0.0027		
11/16/2016	<0.0025	0.0022 (J)	<0.0025	<0.0025
1/17/2017			<0.0025	<0.0025
1/18/2017		0.008		
1/19/2017	<0.0025			
3/2/2017	<0.0025	0.005	<0.0025	<0.0025
4/18/2017	<0.0025		<0.0025	0.00044 (J)
4/19/2017		0.0011 (J)		
3/29/2018	<0.0025		<0.0025	
3/30/2018		0.0016 (J)		0.00058 (J)
6/13/2018	<0.0025	0.0016 (J)	<0.0025	0.00076 (J)
10/10/2018	<0.0025	0.001 (J)	<0.0025	0.00035 (J)
1/29/2019	<0.0025	0.00315	<0.0025	<0.0025
3/26/2019	<0.0025	0.0019 (J)	<0.0025	0.0005 (J)
9/10/2019	0.00017 (J)	0.0011	<0.0025	0.00079 (J)
1/28/2020			<0.0025	
1/29/2020	<0.0025	0.0054		0.0009 (J)
3/10/2020	<0.0025	0.0011 (J)	<0.0025	0.0011 (J)
9/16/2020		0.00053 (J)		
9/17/2020	<0.0025		0.00023 (J)	0.00072 (J)
3/24/2021	<0.0025	0.0022 (J)	<0.0025	0.001 (J)
8/24/2021		0.00054 (J)		
8/25/2021	<0.0025		<0.0025	0.0046
2/22/2022	<0.0025			
2/23/2022		0.0039	<0.0025	0.0014 (J)
8/3/2022	8.5E-05 (J)		0.00041 (J)	
8/4/2022		0.0002 (J)		0.0037
2/8/2023	0.00012 (J)	0.0021 (J)	<0.0025	0.0018 (J)
8/1/2023	<0.0025			0.002 (J)
8/2/2023		0.00032 (J)	0.00031 (J)	
2/6/2024	<0.0025		<0.0025	
2/7/2024		0.00034 (J)		0.0034
8/13/2024	<0.0025			
8/14/2024		0.00068 (J)	0.00012 (J)	0.0085
Mean	0.00204	0.002101	0.002143	0.001945
Std. Dev.	0.0009415	0.00187	0.0008365	0.001793
Upper Lim.	0.0025	0.002636	0.0025	0.001947
Lower Lim.	0.0005	0.001059	0.00041	0.0007148

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					<0.002	<0.002
5/6/2016	<0.002		<0.002	<0.002		
6/21/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/15/2016					<0.002	<0.002
8/16/2016	<0.002	<0.002	<0.002	<0.002		
9/28/2016	<0.002				<0.002	<0.002
9/29/2016		<0.002	<0.002	<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/17/2017				<0.002	<0.002	<0.002
1/18/2017		<0.002	<0.002			
1/19/2017	<0.002					
3/2/2017	0.0036	0.0032	0.0033	0.003	0.0034	0.0031
4/18/2017	<0.002			<0.002	<0.002	<0.002
4/19/2017			<0.002			
4/25/2017		<0.002				
7/13/2017		<0.002				
3/29/2018	<0.002	<0.002			<0.002	
3/30/2018			<0.002	<0.002		<0.002
6/12/2018		<0.002				
6/13/2018	<0.002		<0.002	<0.002	<0.002	<0.002
10/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020		<0.002			0.0015 (J)	
1/29/2020	<0.002		<0.002	<0.002		<0.002
3/10/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020		0.029	<0.002			
9/17/2020	<0.002			<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/24/2021			<0.002	<0.002		
8/25/2021	<0.002	<0.002			<0.002	<0.002
2/22/2022	<0.002	<0.002				
2/23/2022			<0.002	<0.002	<0.002	<0.002
8/2/2022		<0.002				
8/3/2022	<0.002			<0.002	<0.002	
8/4/2022			<0.002			<0.002
2/7/2023		0.0012 (J)		<0.002		
2/8/2023	0.0014 (J)		<0.002		0.0013 (J)	0.0013 (J)
8/1/2023	<0.002			<0.002		<0.002
8/2/2023		<0.002	<0.002		<0.002	
2/6/2024	<0.002				<0.002	
2/7/2024		<0.002	<0.002	<0.002		<0.002
8/13/2024	<0.002					
8/14/2024		<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.002043	0.003191	0.002057	0.002043	0.002009	0.002017
Std. Dev.	0.0003616	0.005634	0.0002711	0.0002085	0.0003502	0.0002774
Upper Lim.	0.0036	0.0032	0.0033	0.003	0.0034	0.0031
Lower Lim.	0.0014	0.0012	0.002	0.002	0.0015	0.0013

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.0036 (J)	0.00359 (J)
5/6/2016	<0.0025		0.00311 (J)	<0.0025		
6/21/2016	0.0012 (J)	<0.0025	0.0031 (J)	0.0006 (J)	0.0097 (J)	0.0033 (J)
8/15/2016					0.0098	0.0038
8/16/2016	0.00047 (J)	<0.0025	0.0034	0.00064 (J)		
9/28/2016	0.00058 (J)				0.0095	0.0043
9/29/2016		<0.0025	0.0032	0.00054 (J)		
11/16/2016	<0.0025	<0.0025	0.0032	0.00041 (J)	0.0094	0.004
1/17/2017				0.00051 (J)	0.0099	0.0051
1/18/2017		<0.0025	0.0032			
1/19/2017	0.0004 (J)					
3/2/2017	<0.0025	<0.0025	0.0042	0.00064 (J)	0.013	0.0064
4/18/2017	<0.0025			0.00057 (J)	0.0086	0.005
4/19/2017			0.0035			
4/25/2017		<0.0025				
7/13/2017		<0.0025				
3/29/2018	<0.0025	<0.0025			0.0088	
3/30/2018			0.0037	0.00068 (J)		0.015
6/12/2018		<0.0025				
6/13/2018	<0.0025		0.0035	0.00048 (J)	0.0093	0.014
10/10/2018	<0.0025	<0.0025	0.0034	0.00063 (J)	0.012	0.018
12/5/2018		<0.0025			0.012	0.02
12/6/2018	<0.0025		0.0031	0.00058 (J)		
1/29/2019	<0.0025	<0.0025	0.00293	<0.0025	0.0103	0.0159
3/26/2019	<0.0025	<0.0025	0.003	<0.0025	0.009	0.02
9/10/2019	0.00032 (J)	0.00016 (J)	0.0027	0.00065	0.011	0.019
1/28/2020		<0.0025			0.008	
1/29/2020	0.00027 (J)		0.003	0.00067		0.025
3/10/2020	<0.0025	<0.0025	0.0024 (J)	0.0005 (J)	0.0081	0.017
9/16/2020		0.0015 (J)	0.002 (J)			
9/17/2020	0.0002 (J)			0.00053 (J)	0.0098	0.024
3/24/2021	<0.0025	<0.0025	0.0019 (J)	0.00053 (J)	0.0063	0.002 (J)
8/24/2021			0.0018 (J)	0.00034 (J)		
8/25/2021	0.00018 (J)	<0.0025			0.0032	0.021
2/22/2022	<0.0025	<0.0025				
2/23/2022			0.0016 (J)	0.0012 (J)	0.007	0.015
8/2/2022		<0.0025				
8/3/2022	<0.0025			0.00051 (J)	0.0044	
8/4/2022			0.0013 (J)			0.0092
2/7/2023		<0.0025		0.0025		
2/8/2023	<0.0025		0.0012 (J)		0.0044	0.0019 (J)
8/1/2023	<0.0025			0.00054 (J)		0.0015 (J)
8/2/2023		<0.0025	0.0011 (J)		0.0031	
2/6/2024	0.00024 (J)				0.0037	
2/7/2024		<0.0025	0.00099 (J)	0.00065 (J)		0.0005 (J)
8/13/2024	<0.0025					
8/14/2024		<0.0025	0.0008 (J)	0.00038 (J)	0.0013 (J)	0.00056 (J)
Mean	0.001783	0.002372	0.00259	0.0007319	0.004175	0.01058
Std. Dev.	0.001021	0.0004918	0.0009635	0.0004479	0.00182	0.00816
Upper Lim.	0.0025	0.0025	0.003059	0.00067	0.006104	0.01318
Lower Lim.	0.00047	0.0015	0.00212	0.00051	0.002246	0.005218

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.75	1.21
5/6/2016	1.07		0.633	1.41		
6/21/2016	2.01	0.292 (U)	1.19 (U)	1.71	1.01	0.895 (U)
8/15/2016					1.3	1.64
8/16/2016	1.12	0.232 (U)	0.516	1.75		
9/28/2016	1.09				1.06	2.17
9/29/2016		1.11	0.665	1.43		
11/16/2016	1.58	0.798	0.694	1.9	0.855	1.49
1/17/2017				1.9	1.59	1.75
1/18/2017		0.302 (U)	0.688			
1/19/2017	1.64					
3/2/2017	1.08	0.437	0.484	1.37	1.4	1.03
4/18/2017	1.23			1.42	0.684	1.83
4/19/2017			0.599			
4/25/2017		0.391				
7/13/2017		0.47				
3/29/2018	1.21	0.736			0.822	
3/30/2018			0.677	1.43		2.15
6/12/2018		0.438				
6/13/2018	1.09		0.272 (U)	1.27	0.716	1.51
10/10/2018	1.95	0.371	0.336	1.54	1.51	2.72
1/29/2019	1.11	0.639	0.719	1.34	1.7	1.93
3/26/2019	1	0.607	0.41 (U)	1.25	0.784	1.79
9/10/2019	1.26	0.939	0.548	1.6	0.958	1.78
1/28/2020		0.465			1.38	
1/29/2020	1.39		0.0985 (U)	1.44		1.61
3/10/2020	1.4	0.34 (U)	0.589	1.32	0.903	1.95
9/16/2020		1.09	1.11			
9/17/2020	1.79			0.666 (U)	1.28	1.56
12/8/2020	1.87			1.65		
3/24/2021	1.81	0.434 (U)	0.625	1.58	1.2	0.636
8/24/2021			0.313 (U)	1.65		
8/25/2021	2.12	0.563			0.767	2.13
2/22/2022	1.85	0.888				
2/23/2022			0.598	1.47	1.42	2.62
8/2/2022		1.08				
8/3/2022	2.2			2.56	1.11	
8/4/2022			0.632			1.24
2/7/2023		0.849		2.14		
2/8/2023	1.77		0.799		1.88	1.11
8/1/2023	1.61			2.07		0.872
8/2/2023		0.432 (U)	1.09		1.46	
2/6/2024	1.99				1.52	
2/7/2024		0.706	1.1	1.8		0.929
8/13/2024	2.14					
8/14/2024		0.231 (U)	-0.123 (U)	1.14	1.08	0.642 (U)
Mean	1.553	0.5936	0.6105	1.569	1.166	1.568
Std. Dev.	0.3972	0.2757	0.3077	0.3664	0.3409	0.5681
Upper Lim.	1.747	0.731	0.7639	1.748	1.335	1.851
Lower Lim.	1.359	0.4562	0.4571	1.391	0.9957	1.285

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					0.394	0.103 (J)
5/6/2016	0.28 (J)		0.088 (J)	0.086 (J)		
6/21/2016	0.36	0.14 (J)	0.19 (J)	0.23 (J)	0.49	0.1 (J)
8/15/2016					0.44	0.11 (J)
8/16/2016	0.27	0.29	0.087 (J)	<0.1		
9/28/2016	0.26				0.4	0.1 (J)
9/29/2016		0.26	<0.1	0.082 (J)		
11/16/2016	0.24	0.25	<0.1	0.087 (J)	0.36	0.091 (J)
1/17/2017				0.086 (J)	0.2	<0.1
1/18/2017		0.26	<0.1			
1/19/2017	0.22					
3/2/2017	0.27	0.28	0.15 (J)	0.15 (J)	0.36	0.16 (J)
4/18/2017	0.2			<0.1	0.29	<0.1
4/19/2017			<0.1			
4/25/2017		0.25				
7/13/2017		0.21				
10/10/2017	0.18 (J)	0.22	<0.1	<0.1	0.28	<0.1
3/29/2018	0.16 (J)	0.23			0.23	
3/30/2018			<0.1	<0.1		0.088 (J)
6/12/2018		0.23				
6/13/2018	0.14 (J)		<0.1	<0.1	0.2	0.15 (J)
10/10/2018	0.17 (J)	0.25	0.085 (J)	<0.1	0.23	0.11 (J)
3/26/2019	0.16	0.22	0.076 (J)	0.072 (J)	0.19 (J)	0.088 (J)
9/10/2019	0.098 (J)	0.2	0.07 (J)	0.073 (J)	0.15	0.083 (J)
3/10/2020	0.086 (J)	0.15	0.05 (J)	0.058 (J)	0.18	0.084 (J)
9/16/2020		0.26	0.076 (J)			
9/17/2020	0.15			0.083 (J)	0.25	0.11
3/24/2021	0.27	0.27	0.11	0.092 (J)	0.35	0.11
8/24/2021			0.095 (J)	0.11		
8/25/2021	0.097 (J)	0.19			0.15	0.038 (J)
2/22/2022	0.047 (J)	0.093 (J)				
2/23/2022			0.075 (J)	0.086 (J)	0.22	0.05 (J)
8/2/2022		0.074 (J)				
8/3/2022	0.12			0.079 (J)	0.2	
8/4/2022			0.072 (J)			0.087 (J)
2/7/2023		0.25		0.076 (J)		
2/8/2023	0.11		0.074 (J)		0.14	0.084 (J)
8/1/2023	0.15			0.1		0.11
8/2/2023		0.25	0.087 (J)		0.2	
2/6/2024	0.12				0.17	
2/7/2024		0.29	0.081 (J)	0.089 (J)		0.063 (J)
8/13/2024	<0.5					
8/14/2024		0.12	<0.1	<0.1	<0.1	<0.1
Mean	0.1837	0.2182	0.09442	0.09746	0.2552	0.09663
Std. Dev.	0.07797	0.06096	0.02773	0.0331	0.1087	0.02587
Upper Lim.	0.2235	0.251	0.09927	0.1	0.3106	0.0983
Lower Lim.	0.1439	0.1984	0.07246	0.082	0.1997	0.06631

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWC-2	MGWC-7	MGWC-8
5/5/2016			<0.001	<0.001
5/6/2016		<0.001		
6/21/2016	0.0001 (J)	<0.001	0.0003 (J)	<0.001
8/15/2016			<0.001	<0.001
8/16/2016	<0.001	<0.001		
9/28/2016			<0.001	<0.001
9/29/2016	<0.001	<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001
1/17/2017			<0.001	<0.001
1/18/2017	<0.001	<0.001		
3/2/2017	<0.001	<0.001	<0.001	<0.001
4/18/2017			<0.001	<0.001
4/19/2017		<0.001		
4/25/2017	<0.001			
7/13/2017	<0.001			
3/29/2018	<0.001		<0.001	
3/30/2018		<0.001		<0.001
1/29/2019	<0.001	<0.001	<0.001	<0.001
1/28/2020	<0.001		<0.001	
1/29/2020		<0.001		<0.001
3/10/2020	<0.001	<0.001	<0.001	<0.001
9/16/2020	<0.001	<0.001		
9/17/2020			<0.001	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001		
8/25/2021	<0.001		0.00019 (J)	0.00022 (J)
2/22/2022	<0.001			
2/23/2022		<0.001	<0.001	<0.001
8/2/2022	<0.001			
8/3/2022			0.00021 (J)	
8/4/2022		<0.001		<0.001
2/7/2023	<0.001			
2/8/2023		<0.001	<0.001	<0.001
8/1/2023				<0.001
8/2/2023	<0.001	<0.001	<0.001	
2/6/2024			<0.001	
2/7/2024	<0.001	0.00027 (J)		<0.001
8/14/2024	<0.001	<0.001	<0.001	<0.001
Mean	0.0009571	0.0009652	0.0008905	0.0009629
Std. Dev.	0.0001964	0.0001593	0.0002755	0.0001702
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.0001	0.00027	0.0003	0.00022

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-20
5/5/2016					0.0586	0.0252 (J)	
5/6/2016	0.0128 (J)		<0.05	0.0113 (J)			
6/21/2016	0.0102 (J)	0.0112 (J)	0.0047 (J)	0.0103 (J)	0.122	0.0228 (J)	
8/15/2016					0.12	0.026	
8/16/2016	0.012	0.014	0.0043 (J)	0.01			
9/28/2016	0.012				0.12	0.026	
9/29/2016		0.017	0.0048 (J)	0.01			
11/16/2016	0.013	0.016	0.0058	0.014	0.13	0.031	
1/17/2017				0.014	0.14	0.032	
1/18/2017		0.015	0.0051				
1/19/2017	0.011						
3/2/2017	0.013	0.015	0.0061	0.013	0.13	0.031	
4/18/2017	0.0097			0.01	0.11	0.023	
4/19/2017			0.0042 (J)				
4/25/2017		0.013					
7/13/2017		0.014					
3/29/2018	0.017 (J)	0.032 (J)			0.17 (J)		
3/30/2018			0.008 (J)	0.017 (J)		0.058 (J)	
6/12/2018		0.019					
6/13/2018	0.0094		0.0054	0.011	0.12	0.035	
10/10/2018	0.011	0.027	0.0055	0.013	0.13	0.046	
12/5/2018		0.026			0.14	0.043	
12/6/2018	0.01		0.0066	0.015			0.0053
1/29/2019	0.0109	0.0172	0.00537	0.0106	0.112	0.0361	
3/26/2019	0.01	0.02	0.0051	0.012	0.12	0.043	
9/10/2019	0.012	0.023	0.0074	0.015	0.11	0.042	
1/28/2020		0.022			0.13		
1/29/2020	0.0096		0.0059	0.012		0.037	
3/10/2020	<0.025	0.018	0.0068	0.014	0.11	0.028	
9/16/2020		0.025	0.0055				
9/17/2020	0.0086			0.012	0.11	0.039	
3/24/2021	0.013	0.018	0.0066	0.013	0.13	0.011	
8/24/2021			0.0062	0.012			
8/25/2021	0.0096	0.017			0.12	0.037	
2/22/2022	0.01	0.022					
2/23/2022			0.0066	0.013	0.13	0.028	0.0066
8/2/2022		0.026					
8/3/2022	0.01			0.013	0.13		
8/4/2022			0.0063			0.021	0.011
2/7/2023		0.024		0.014			
2/8/2023	0.01		0.0065		0.14	0.012	
8/1/2023	0.0084			0.011		0.012	
8/2/2023		0.019	0.0031 (J)		0.13		
2/6/2024	0.0084				0.12		
2/7/2024		0.03	0.0051	0.0081		0.0076	
8/13/2024	0.011						
8/14/2024		0.022	0.0065	0.012	0.15	0.007	
12/9/2024							0.0029 (J)
Mean	0.01097	0.02009	0.00648	0.01232	0.1243	0.02922	0.00645
Std. Dev.	0.001893	0.005393	0.003923	0.001959	0.01913	0.01271	0.003399
Upper Lim.	0.01189	0.02272	0.0066	0.01327	0.1341	0.03541	0.01417
Lower Lim.	0.01004	0.01746	0.0051	0.01136	0.1167	0.02303	0

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016				<0.0002	<0.0002
5/6/2016		<0.0002	<0.0002		
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/15/2016				<0.0002	0.00015 (J)
8/16/2016	<0.0002	7.8E-05 (J)	<0.0002		
9/28/2016				<0.0002	<0.0002
9/29/2016	<0.0002	<0.0002	<0.0002		
11/16/2016	8.6E-05 (J)	0.0001 (J)	7E-05 (J)	8E-05 (J)	0.00021
1/17/2017			<0.0002	<0.0002	7.6E-05 (J)
1/18/2017	<0.0002	<0.0002			
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017			<0.0002	<0.0002	0.00018 (J)
4/19/2017		<0.0002			
4/25/2017	<0.0002				
7/13/2017	<0.0002				
3/29/2018	7.4E-05 (J)			<0.0002	
3/30/2018		<0.0002	<0.0002		0.00013 (J)
6/12/2018	<0.0002				
6/13/2018		<0.0002	<0.0002	<0.0002	0.00074
10/10/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.00013 (J)
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020	<0.0002			<0.0002	
1/29/2020		<0.0002	<0.0002		0.00012 (J)
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002			
9/17/2020			<0.0002	<0.0002	0.00014 (J)
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2021		<0.0002	<0.0002		
8/25/2021	<0.0002			<0.0002	0.0041
10/26/2021					<0.0002
2/22/2022	<0.0002				
2/23/2022		<0.0002	<0.0002	<0.0002	0.00028
8/2/2022	<0.0002				
8/3/2022			<0.0002	<0.0002	
8/4/2022		<0.0002			0.00068
2/7/2023	<0.0002		<0.0002		
2/8/2023		<0.0002		<0.0002	0.00026
8/1/2023			<0.0002		0.00014 (J)
8/2/2023	<0.0002	<0.0002		<0.0002	
2/6/2024				<0.0002	
2/7/2024	<0.0002	<0.0002	<0.0002		0.00052
8/14/2024	<0.0002	<0.0002	<0.0002	<0.0002	0.00051
Mean	0.0001896	0.0001903	0.0001943	0.0001948	0.0004152
Std. Dev.	3.462E-05	3.215E-05	2.711E-05	2.502E-05	0.0008041
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.00028
Lower Lim.	8.6E-05	0.0001	7E-05	8E-05	0.00015

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-7	MGWC-8
5/5/2016			0.00351 (J)	<0.015
5/6/2016	0.0021 (J)			
6/21/2016	0.002 (J)	0.002 (J)	<0.015	<0.015
8/15/2016			<0.015	<0.015
8/16/2016	0.0019 (J)	0.0012 (J)		
9/28/2016	0.0018 (J)		<0.015	<0.015
9/29/2016		0.0014 (J)		
11/16/2016	<0.075	<0.015	<0.015	<0.015
1/17/2017			<0.015	<0.015
1/18/2017		<0.015		
1/19/2017	0.0011 (J)			
3/2/2017	0.0012 (J)	<0.015	<0.015	<0.015
4/18/2017	0.0013 (J)		<0.015	0.0037 (J)
4/25/2017		<0.015		
7/13/2017		<0.015		
3/29/2018	0.0017 (J)	<0.015	<0.015	
3/30/2018				<0.015
6/12/2018		<0.015		
6/13/2018	0.00087 (J)		<0.015	<0.015
10/10/2018	<0.075	<0.015	<0.015	<0.015
1/29/2019	<0.075	<0.015	<0.015	<0.015
1/28/2020		<0.015	<0.015	
1/29/2020	0.0015 (J)			<0.015
3/10/2020	<0.075	<0.015	<0.015	<0.015
9/16/2020		0.0024 (J)		
9/17/2020	0.0012 (J)		<0.015	<0.015
3/24/2021	0.0029 (J)	<0.015	<0.015	<0.015
8/25/2021	0.00088 (J)	<0.015	<0.015	<0.015
2/22/2022	0.0014 (J)	0.00064 (J)		
2/23/2022			<0.015	<0.015
8/2/2022		0.00093 (J)		
8/3/2022	0.0011 (J)		<0.015	
8/4/2022				<0.015
2/7/2023		<0.015		
2/8/2023	0.0012 (J)		<0.015	<0.015
8/1/2023	0.0012 (J)			<0.015
8/2/2023		<0.015	<0.015	
2/6/2024	0.00099 (J)		<0.015	
2/7/2024		<0.015		<0.015
8/13/2024	0.0011 (J)			
8/14/2024		<0.015	<0.015	<0.015
Mean	0.01424	0.01146	0.0145	0.01451
Std. Dev.	0.02851	0.006102	0.002396	0.002356
Upper Lim.	0.0021	0.015	0.015	0.015
Lower Lim.	0.0011	0.0024	0.00351	0.0037

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-7	MGWC-8
5/5/2016					<0.005	<0.005
5/6/2016	<0.005		<0.005	<0.005		
6/21/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/15/2016					<0.005	0.00033 (J)
8/16/2016	<0.005	<0.005	<0.005	<0.005		
9/28/2016	<0.005				<0.005	0.00038 (J)
9/29/2016		<0.005	<0.005	<0.005		
11/16/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/17/2017				<0.005	<0.005	<0.005
1/18/2017		<0.005	<0.005			
1/19/2017	<0.005					
3/2/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/18/2017	<0.005			<0.005	<0.005	0.0024
4/19/2017			<0.005			
4/25/2017		<0.005				
7/13/2017		<0.005				
3/29/2018	0.0005 (J)	0.00027 (J)			0.00026 (J)	
3/30/2018			0.00045 (J)	0.00044 (J)		0.00027 (J)
6/12/2018		<0.005				
6/13/2018	<0.005		<0.005	<0.005	<0.005	<0.005
10/10/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/29/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/28/2020		<0.005			<0.005	
1/29/2020	<0.005		<0.005	<0.005		<0.005
2/22/2022	<0.005	<0.005				
2/23/2022			<0.005	<0.005	<0.005	<0.005
8/2/2022		<0.005				
8/3/2022	<0.005			<0.005	<0.005	
8/4/2022			<0.005			<0.005
2/7/2023		<0.005		<0.005		
2/8/2023	<0.005		<0.005		<0.005	<0.005
8/1/2023	<0.005			<0.005		<0.005
8/2/2023		<0.005	<0.005		<0.005	
2/6/2024	<0.005				<0.005	
2/7/2024		<0.005	<0.005	<0.005		<0.005
8/13/2024	<0.005					
8/14/2024		<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.004763	0.004751	0.004761	0.00476	0.004751	0.004125
Std. Dev.	0.001032	0.001085	0.001044	0.001046	0.001087	0.001791
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.00027	0.00045	0.00044	0.00026	0.0024

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2025 12:58 PM View: Appendix IV
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

	MGWC-1	MGWC-12	MGWC-2	MGWC-3	MGWC-8
5/5/2016					<0.001
5/6/2016	<0.001		<0.001	<0.001	
6/21/2016	9E-05 (J)	<0.001	<0.001	<0.001	0.0001 (J)
8/15/2016					0.00016 (J)
8/16/2016	<0.001	<0.001	<0.001	<0.001	
9/28/2016	<0.001				0.00014 (J)
9/29/2016		<0.001	<0.001	<0.001	
11/16/2016	<0.001	<0.001	<0.001	<0.001	9E-05 (J)
1/17/2017				<0.001	0.00016 (J)
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
3/2/2017	<0.001	<0.001	<0.001	<0.001	0.00018 (J)
4/18/2017	9.5E-05 (J)			<0.001	0.00019 (J)
4/19/2017			<0.001		
4/25/2017		<0.001			
7/13/2017		<0.001			
3/29/2018	0.00014 (J)	<0.001			
3/30/2018			<0.001	<0.001	0.00027 (J)
6/12/2018		<0.001			
6/13/2018	<0.001		<0.001	<0.001	0.00027 (J)
10/10/2018	<0.001	<0.001	<0.001	<0.001	0.00025 (J)
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020		<0.001			
1/29/2020	0.00032 (J)		0.00021 (J)	0.00037 (J)	0.00042 (J)
3/10/2020	<0.001	0.00015 (J)	<0.001	0.00016 (J)	0.00025 (J)
9/16/2020		0.00027 (J)	<0.001		
9/17/2020	0.00016 (J)			<0.001	0.00031 (J)
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021			<0.001	<0.001	
8/25/2021	<0.001	<0.001			0.0004 (J)
2/22/2022	<0.001	<0.001			
2/23/2022			<0.001	<0.001	<0.001
8/2/2022		<0.001			
8/3/2022	<0.001			<0.001	
8/4/2022			<0.001		<0.001
2/7/2023		<0.001		<0.001	
2/8/2023	<0.001		<0.001		<0.001
8/1/2023	<0.001			<0.001	<0.001
8/2/2023		<0.001	<0.001		
2/6/2024	<0.001				
2/7/2024		<0.001	<0.001	<0.001	<0.001
8/13/2024	<0.001				
8/14/2024		<0.001	<0.001	<0.001	<0.001
Mean	0.0008176	0.0009313	0.0009657	0.0009361	0.00053
Std. Dev.	0.0003561	0.0002283	0.0001647	0.0002141	0.0003931
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00032	0.00027	0.00021	0.00037	0.00018

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:54 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>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWA-6A (bg)	-0.00005954	-43	-37	Yes	14	64.29	n/a	0.05	NP

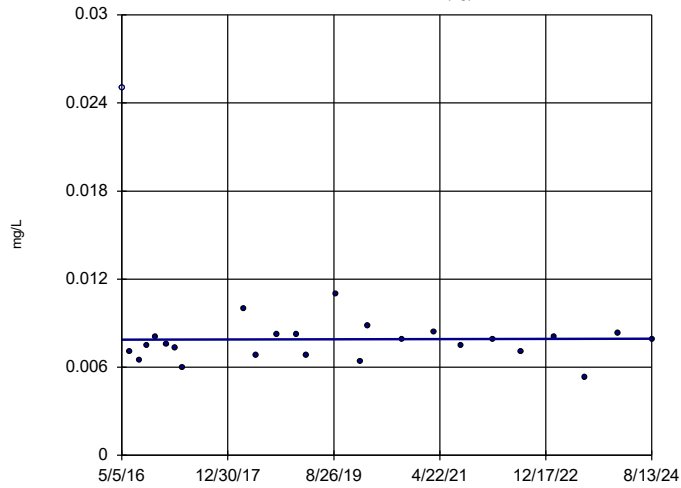
Appendix IV Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/27/2024, 4:54 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>Alpha</u>	<u>Method</u>
Lithium (mg/L)	MGWA-10 (bg)	0.000008951	7	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	MGWA-11 (bg)	0.0009041	69	85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	MGWA-5 (bg)	0.00006631	28	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	25	85	No	25	92	n/a	0.05	NP
Lithium (mg/L)	MGWA-6A (bg)	-0.00005954	-43	-37	Yes	14	64.29	n/a	0.05	NP
Lithium (mg/L)	MGWC-7	0.001123	52	85	No	25	0	n/a	0.05	NP

Sen's Slope Estimator

MGWA-10 (bg)

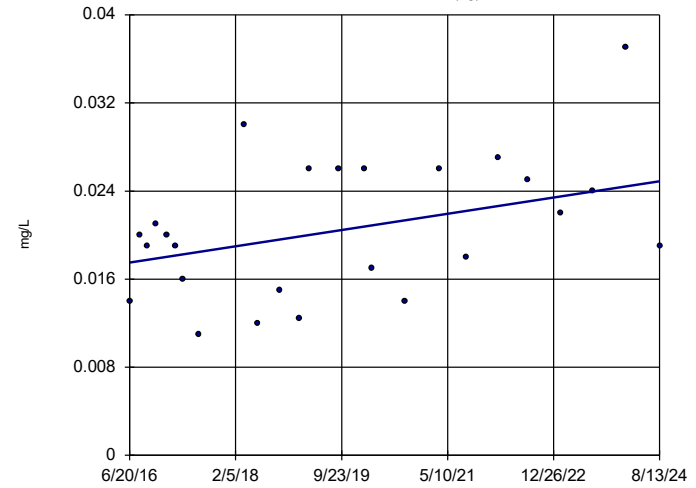


n = 25
Slope = 0.000008951
units per year.
Mann-Kendall
statistic = 7
critical = 85
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 9/27/2024 4:53 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-11 (bg)

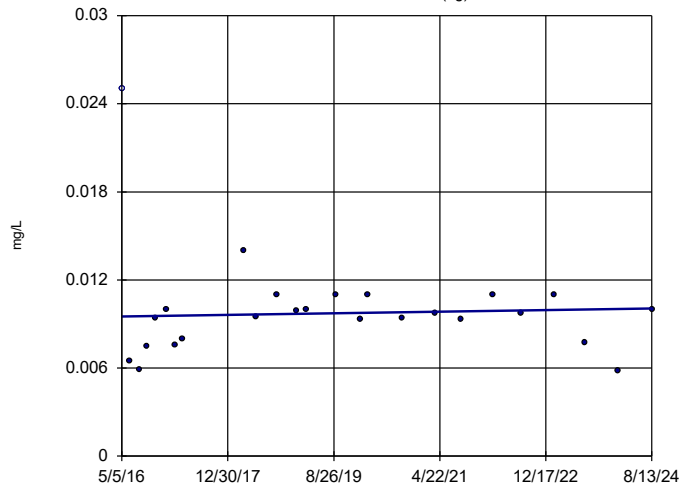


n = 25
Slope = 0.0009041
units per year.
Mann-Kendall
statistic = 69
critical = 85
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 9/27/2024 4:53 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-5 (bg)

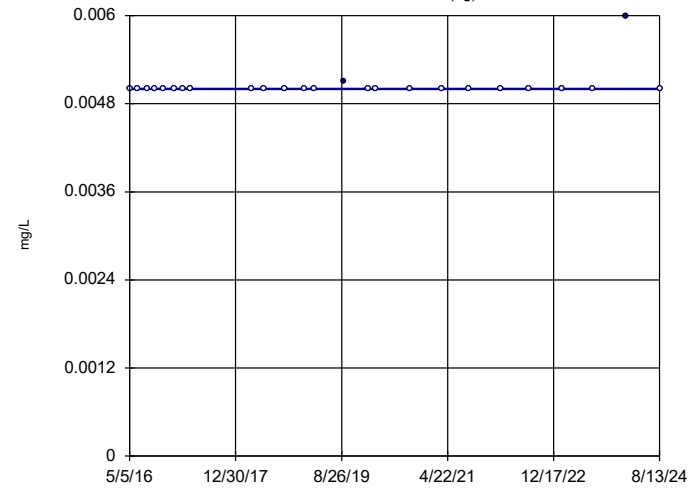


n = 25
Slope = 0.00006631
units per year.
Mann-Kendall
statistic = 28
critical = 85
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 9/27/2024 4:53 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sen's Slope Estimator

MGWA-6 (bg)



n = 25
Slope = 0
units per year.
Mann-Kendall
statistic = 25
critical = 85
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 9/27/2024 4:53 PM View: Appendix IV - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



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