2025 Annual Groundwater Monitoring and Corrective Action Report

PLANT McMANUS

Former Ash Pond 1 (AP-1)

Prepared for:

GEORGIA POWER COMPANY

Atlanta, Georgia



Prepared by:



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July 31, 2025

Georgia Power Company

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CERTIFICATION STATEMENT

This 2025 *Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McManus– Former Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), 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 EnSafe Inc (formerly Resolute Environmental & Water Resources Consulting, LLC). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

EnSafe, Inc.



Signature: _____
Steven Hodskins, P.E.

Date: 07/31/2025

SUMMARY

This summary of the 2025 Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from July 2024 through June 2025 (the Annual reporting period) at Georgia Power Company's (Georgia Power's) Former Ash Pond (AP) AP-1 at Plant McManus (the Site). This summary was prepared by EnSafe Inc. (formerly Resolute Environmental and Water Resources Consulting, LLC) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste 391-3-4-.10, and by reference, Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McManus is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property. The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an offsite permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to the Georgia Environmental Protection Division (GA EPD) on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit for the Plant McManus Ash Pond was issued by GA EPD Friday June 18, 2021 (063-030D (CCR)).



Former Ash Pond (AP-1) and the Site.

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and May 2018. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures were established in August 2019 and July 2020, respectively. An *Assessment of Corrective Measures Report* was subsequently prepared for the former AP-1 (Arcadis, 2020b) and submitted to GA EPD in December 2020. During the Annual reporting period, the Site remained in assessment monitoring as corrective measures were evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD in February 2023 with revisions provided on January 18, 2024. Following the approval of GA EPD Watershed and Land Branch approval of the *MCM-06 Pilot Study Workplan* (Arcadis 2024b) on June 26 and August 2, 2024,

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

respectively, a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process. Post-injection performance monitoring was completed during the annual reporting period following injections in accordance with the *MCM-06 Pilot Study Workplan*. A Pilot Study Summary Report is anticipated to be submitted to EPD in August 2025 under separate cover.

During the 2025 Annual reporting period, EnSafe conducted the semiannual groundwater and surface water sampling events in September 2024 and March 2025. Samples were submitted to GEL Laboratories (GEL) for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells provided in the table below.

Appendix III Constituents	**September 2024**	**March 2025**
Boron	MCM-12 and MCM-17	MCM-12 and MCM-17
pH	MCM-05, MCM-06, MCM-07, MCM-12, MCM-14 and MCM-17	MCM-05, MCM-06, MCM-07, MCM-12, MCM-14 and MCM-17
Appendix IV Parameter[4]	**September 2024**	**March 2025**
Arsenic	MCM-06	MCM-06
Lithium	DPZ-02	DPZ-02

Based on review of the Appendix III and Appendix IV statistical results, the Site will continue in assessment monitoring. An alternate source demonstration (ASD) was approved for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 by GA EPD (Arcadis 2023). Georgia Power will continue routine groundwater monitoring, reporting, and groundwater remedy evaluation at the Site. Reports will be posted to the Georgia Power CCR website and provided to GA 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

[4] An SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the CCR rule specified level (RSL), if no MCL is available, or the calculated background interwell tolerance limit.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, this *2025 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power's) Plant McManus Former Ash Pond AP-1 (the Site) and satisfy the requirements of § 257.90(e). To specify groundwater monitoring requirements, Georgia EPD rule 391-3-4-.10(6)(a) incorporates by reference the USEPA CCR rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015). For ease of reference, the USEPA CCR rules are cited within this report.

Groundwater monitoring and reporting for the former AP-1 is performed in accordance with the monitoring requirements of 40 CFR 257.90 through 257.95 of the USEPA CCR rule, and Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6).

This report documents semiannual monitoring activities completed from July 2024 through June 2025 (the reporting period) and includes the required report components in accordance with 40 CFR 257.90(e).

1.1 SITE LOCATION AND DESCRIPTION

The Site is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property (Figure 1).

The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an offsite, permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to GA EPD on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit (No. 063-030D(CCR)) for the Plant McManus Ash Pond was issued by GA EPD on June 18, 2021. The former AP-1 is monitored by an on-site network of piezometers and wells to define groundwater elevation, flow direction, and monitor groundwater condition. The locations of the wells and piezometers are shown on Figures 2 and 3, respectively; well and piezometer construction details are listed in Tables 1 and 2, respectively.

1.1.1 Regional Geology

The aquifer systems in Brunswick, Glynn County, GA are: (1) the surficial aquifer, (2) the Brunswick aquifer (Upper and Lower) and (3) the Floridan aquifer system (Upper and Lower). The Floridian aquifer system can extend to depths beyond 2,000 feet or more (Clark et al. 1990, Maslia and Prowell,1990; Jones et.al 2002). The uppermost regional aquifer is the surficial aquifer. In the Brunswick area, this aquifer extends to a depth of approximately 180 feet. Although the surficial aquifer is defined on a regional scale as extending to approximately 180 feet below ground surface, Clarke et al. (1990) acknowledge that localized lower permeability units can create confined or semi-confined conditions within limited areas of the surficial aquifer (ATC Associates Inc., 1997).

Regionally, the surficial aquifer is composed of geologic formations overlying the Hawthorn Formation. These formations include the Satilla, Charlton, and Raysor Formations, as well as undifferentiated Holocene, Pleistocene, Pliocene and late-Miocene deposits. In the Brunswick area, the Satilla is described as extending to approximately 28 feet below ground surface and the Cypresshead to approximately 50 feet below ground surface. Underlying the Satilla and Cypresshead Formations are sands, gravels, and clays which have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation. These alternating units of the Ebenezer Formation are described as an uppermost confining unit extending from approximately 50 to 75 feet below ground surface, followed by a water-bearing zone from approximately 75 to 110 feet below ground surface, another confining unit from approximately 110 to 150 feet below ground surface, and then another water-bearing zone from approximately 150 to 185 feet below ground surface. Depositionally, these sediments represent marginal to shallow marine beds, that are overlain by marine terrace deposits. Fluvial or residual deposits overlay the terrace deposits (Miller, 1986; Clarke et al, 1990).

The regional surficial aquifer is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system. The Brunswick aquifer system is composed of two confined aquifers (the Upper Brunswick aquifer and the Lower Brunswick aquifer) which are separated and confined above and below by less permeable units of the Hawthorn Formation. The Upper Brunswick aquifer extends from approximately 270 feet to 350 feet below ground surface, and the Lower Brunswick aquifer extends from approximately 400 feet to 470 feet below ground surface (Clarke *et al*, 1990).

1.1.2 Site Geology and Hydrogeology

Based on information collected during subsurface investigations, Plant McManus is underlain by very fine sands and clays from land surface (or beneath a shallow fill layer) to depths ranging from 33 to 43 feet below land surface. Very fine sands are predominant, but discontinuous clay layers of varying thickness were encountered during drilling activities. The clay layers varied from less than one inch to approximately ten feet in thickness. These very fine sands and discontinuous clay layers are interpreted to be the Upper Satilla Formation (ATC Associates, Inc., 1997).

Underlying the Upper Satilla Formation are fine to medium sands with greater silt content, and apparently lower permeability, than the sands of the Upper Satilla. These siltier sands, which were interpreted to be the Lower Satilla Formation, were encountered at depths greater than 35 feet below ground surface during the Site investigation performed in the 1990s (ATC Associates Inc., 1997). These sands may also correspond to the Cypresshead Formation of Huddleston (1988). Sands and clays below the Cypresshead and above the confining unit of the Brunswick aquifer system have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation, extending from approximately 50 to 185 feet below ground surface in the Brunswick area.

The regional surficial aquifer that contains the Upper and Lower Satilla Formations is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system.

The surficial aquifer underlying the mainland, marsh, and island is composed of the very fine to fine grain sand with discontinuous clay layers of the Upper and Lower Satilla Formation. In the marsh, the groundwater elevation at low tide is below the top of the marsh surface. The upper portion of the aquifer in the marsh has been cut by tidal creeks, which meander through the marsh. In addition to current and historically recent (pre-ash pond construction) tidal channels, the marsh is also likely to have paleo (pre-historic) tidal channels present throughout the upper portion of the aquifer in the marsh area, which may provide zones of higher hydraulic conductivity or isolated pockets of groundwater. Vertically, the Satilla formation fines downward to a silty fine sand of the Lower Satilla Formation. The aquifer is generally unconfined, with localized clay layers. Groundwater flowing within the surficial aquifer is separated from deeper aquifers by approximately 90 feet of lower-permeability portions of the Hawthorn Formation (Miocene Unit A) that form the upper confining bed for the Brunswick aquifer system (Clarke et al, 1990).

Groundwater flows from two directions toward the former AP-1. One groundwater flow component originates on the mainland, northeast of the facility, and flows southwest, while the other flow component originates on Crispen Island and flows north and northeast (Figures 4-11). Groundwater elevations in the monitoring wells on the mainland (MCM-02, -15, and -16) and on the island (MCM-08, and -11) have consistently exhibited higher groundwater elevations than the monitoring wells and piezometers installed along the dikes (Table 3), with MCM-01 and -04 exhibiting intermediate elevations between the mainland and dike wells. The potentiometric surface of the surficial aquifer and the resultant groundwater flow direction in the vicinity of the former AP-1 is a reflection of the topography of the mainland, Crispen Island, and the tidal marsh surrounding the area.

1.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer around former AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the former AP-1 within the uppermost aquifer. As

part of the assessment monitoring program, DPZ-02, an assessment monitoring well, was added to the program during the 2020 semiannual monitoring program to vertically characterize the nature and extent of groundwater downgradient of former AP-1.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the Assessment of Corrective Measures (ACM) program.

The construction and location of the detection monitoring wells, assessment wells, and piezometers are shown on Tables 1 and 2 and Figures 2 and 3.

2.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

As required by § 257.90(e), the following describes monitoring-related activities performed during the reporting period and discusses any change in status of the monitoring program.

2.1 WELL INSTALLATION, MAINTENANCE, AND ABANDONMENTS

On June 1, 2024, two piezometers (INW-01 and DR-03) were installed along the former AP dike in the vicinity of MCM-06 as part of the pilot study network (Arcadis, 2024b). These piezometers were installed at the end of the previous reporting period during final production of the annual report. INW-01 serves as an injection well and DR-03 serves as a dose response well during the pilot study injection. Well construction and installation details are presented in the Well Installation Report submitted September 27, 2024 to GA EPD and presented in Appendix A of this report.

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 (O.C.G.A. § 12-5-134(5)(d)(vii)). In September 2024 and March 2025, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A. In summary, maintenance activities for this reporting period included:

- Visual inspection of well conditions prior to sampling, recording Site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.
- Installation of new AquaTroll 600 transducers in wells PT-03, DR-02, and DR-03 prior to the pilot study; transducers were removed in October 2024.
- Removal of Aqua Troll 200 transducer from MCM-05 due to faulty cable in December 2024, reinstallation of transducer to MCM-05 in March 2025.

The well maintenance and repair documentation from July 2024 through June 2025 are presented in Appendix A.

2.2 ASSESSMENT MONITORING

Based on results of the August 2019 *Annual Groundwater Monitoring and Corrective Action Report*, assessment monitoring was initiated at the Site. Currently identified SSLs of Appendix IV constituents exceeding their respective Groundwater Protection Standard (GWPS) at former AP-1 are arsenic in MCM-06 and lithium in DPZ-02. An alternate source demonstration (ASD) was approved by GA EPD for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 (Arcadis, 2023).

Pursuant to § 257.96, an *Assessment of Corrective Measures Report* (ACM) was initiated for the former AP-1 on July 9, 2020. An *Assessment of Corrective Measures Report* (ACM Report) was subsequently prepared for the former AP-1 (Arcadis, 2020b) and submitted to GA EPD in December 2020 and posted to the CCR compliance website in January 2021. A Draft Remedy Selection Report was submitted to GA EPD on February 28, 2023, with revisions provided on

January 18, 2024, and is currently under review. In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. Georgia Power submitted a Pilot Study Workplan to GA EPD on April 30, 2024. The GA EPD Watershed Protection Branch approved the request in a letter dated June 26, 2024. The GA EPD Land Protection Branch approved the implementation of the pilot study in a letter dated August 2, 2024. The pilot study activities were detailed in the Semiannual Pilot Study Progress Report (Arcadis 2025) that was included in the *2024 Semiannual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1),* dated February 28, 2025. Georgia Power anticipates submitting a Pilot Study Summary Report as a stand-alone document by August 29, 2025. In accordance with § 257.96(b), groundwater continues to be monitored at the former AP-1 under the assessment monitoring program while the ACM phase is implemented.

Pursuant to § 257.95(b), the monitoring wells of the certified compliance monitoring network were sampled for the complete list of Appendix III and Appendix IV parameters in the monitoring events conducted in September 2024 and March 2025 (Table 4). A summary of the analyses collected is provided in Table 5. Details of these events and analytical results are discussed in Section 3, with the field sampling and calibration reports and laboratory analytical reports presented in Appendix B. The statistical results are discussed in Section 4.

2.3 ADDITIONAL EVALUATIONS

Groundwater samples were collected from the entire Former AP-1 monitoring well network during the March 2025 monitoring events and were analyzed for magnesium, potassium, sodium, alkalinity (bicarbonate, carbonate, total) and iron. The data were collected in support of evaluating, as necessary, the geochemical composition of the groundwater at the Site. The laboratory reports associated with the data are provided in Appendix B.

2.3.1 Assessment of Corrective Measures

Following GA EPD's approval of the *MCM-06 Pilot Study Workplan* (Arcadis 2024b), a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process. During the reporting period, additional baseline sampling was performed in June and July 2024 at the proposed pilot-study well network. Pilot study injections activities were performed from August 13 to August 20, 2024. A post-injection performance sampling regime was implemented following the pilot injection event. Refer to Section 6.2 for details of the Assessment of Corrective Measures.

2.3.2 Surface Water Sampling

To assess horizontal delineation of arsenic, Georgia Power has proactively completed additional sampling to assess concentrations of arsenic in surface water in the tidal salt marsh since February 2020. Surface water samples are collected in accordance with USEPA Region 4

Science and Ecosystem Support Division (SESD), Operating Procedure, Surface Water Sampling SESDPROC-201-R5 (December 23, 2021).

September 2024 and March 2025 Sampling

In September 2024 and March 2025, surface water samples were collected during high tide (HT, HTS) from each point along transect T2 (Figure 12). Low tide surface water samples (LT) were collected from Transect 2 (T2) at the fourth location (i.e., T2-4). Background samples were collected at high tide background location BG-2HT, located in the Turtle River, north of its confluence with Gibson Creek, and low tide background location BG-1LT, in Cowpen Creek, north of its confluence with Burnett Creek.

Surface water collected during the events was analyzed for arsenic, Appendix III parameters, and additional geochemical parameters (magnesium, potassium, sodium, alkalinity). The laboratory reports associated with the surface water sampling events are provided in Appendix C and a summary of the results are presented in Table 6. Surface water data from this reporting period are consistent with historical results. Surface water sampling will continue on a semiannual basis to support ongoing assessment monitoring.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to conduct groundwater and surface water monitoring, as well as the sampling results that were obtained from sampling events at the former AP-1 during the reporting period.

3.1 GROUNDWATER ELEVATION MEASUREMENT

Prior to each sampling event, groundwater levels were recorded from piezometers and wells in the network at the former AP-1. Groundwater measurements were taken from transducers installed in 16 wells (MCM-01, -02, -04 through -07, -11, -12, -14 through -20, and DPZ-02) and 16 piezometers (MCM-03, -08, -10 -13, PZ-09 through PZ-12, DPZ-01, DPZ-03 through -06, PT-01, PT-02 and PT-04D). When other wells and piezometers in the network are utilized for potentiometric surface maps, they are gauged by hand using a Heron water level indicator. Groundwater elevations calculated during the September 2024 and March 2025 monitoring events are summarized in Table 3. Groundwater elevation data was used to develop a high tide and low tide potentiometric surface elevation contour map for each event (Figures 4-11). Groundwater flow at the Site is discussed in Section 1.1.

3.2 GROUNDWATER GRADIENT AND HORIZONTAL FLOW VELOCITY

The horizontal groundwater flow velocity at the former AP-1 was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K * i}{\eta_e}$$

Where:

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

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

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

$\eta_e =$ Effective porosity

Horizontal groundwater flow velocities were calculated for two well pairs at high and low tide using groundwater elevations collected on September 10, 2024, March 18, 2025, and March 20, 2025. Groundwater flow velocities representing groundwater historically flowing from the mainland to former AP-1 (between MCM-16 and MCM-02) and from the island to former AP-1 (between MCM-11 and MCM-12) are presented in Table 7.

Groundwater flow between MCM-16 and MCM-02 was 0.034 feet per day (ft/day) at low tide and 0.037 ft/ day at high tide in September 2024, while groundwater flow between MCM-11 and MCM-12 was 0.058 ft/ day at low tide and 0.065 ft/day at high tide. During the September 2024 event,

the gradient was relatively flat (approximately 0.03 ft/day), and positive, indicating a flow from MCM-16 toward MCM-02. A continuous net flow outward from the pond to the surface water had been observed since September 2022 through March 2024 as a function of the maintained pond surface water elevation. An outward groundwater flow from the pond was observed during the September 2024 event at low tide conditions. However, an inward groundwater flow towards the pond was observed during the September 2024 event at high tide conditions. It should be noted that observed tides were above average during the September 2024 event. Additionally, the pond effluent is now equipped with a floating weir to manage pond level and allows for surface water/pond water exchange. The overall groundwater conditions at the pond still appear to yield a net outward flow given the periodicity of the tidal conditions compared to adjacent monitoring well groundwater elevations. Additional water level gauging during the March 2025 event displayed a similarly flat gradient from the mainland to the pond, with a groundwater flow velocity of 0.009 ft/day at both high tide and low tide between MCM-16 and MCM-02. Groundwater flow between MCM-11 and MCM-12 during the March 2025 event was recorded at 0.047 ft/day at low tide and 0.055 ft/day at high tide. A groundwater flow outward from the pond was observed during the March 2025 event at both high and low tide.

Groundwater elevation fluctuations along the western dike have been previously observed due to the tidal influence interaction between the marsh-side surface water and groundwater well elevations. Previous groundwater observations have displayed an approximate 40-minute delay from when surface water reaches its greatest elevation until groundwater elevations are influenced. The groundwater gradient from MCM-11 to MCM-12 indicates a groundwater flow direction from the former island to the marsh at both high and low tides. For September 2024, groundwater flow velocities were 13.50 (MCM-16 to -02) and 23.57 (MCM-11 to -12) feet per year (ft/yr) at high tide and 12.57 (MCM-16 to -02) and 21.18 (MCM-11 to -12) ft/yr at low tide. For March 2025, groundwater flow velocities were 3.26 (MCM-16 to -02) and 20.02 (MCM-11 to -12) feet per year (ft/yr) at high tide and 3.26 (MCM-16 to -02) and 17.31 (MCM-11 to -12) ft/yr at low tide.

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected from the compliance well network and select piezometers using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using a peristaltic pump with the intake tubing lowered to the midpoint of the well screen (or as appropriate determined by the water level). QED dedicated pumps are utilized in monitoring wells MCM-01, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-15, MCM-16, and MCM-17. Non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 400 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential [ORP]) during well purging to verify stabilization prior to sampling. Turbidity was

monitored using a LaMotte 2020we (or similar) 1970-USEPA and ISO Compliant Model turbidity meter.

Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- ± 5% for specific conductance
- ± 0.2 milligrams per liter (mg/L) or ± 10%, whichever is greater for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measurements less than 5 nephelometric turbidity units (NTU) or measurements between 5 to 10 NTUs following three hours of purging.

Once stabilization was achieved, samples were collected in appropriately preserved laboratory-supplied containers and placed in ice-packed coolers. No filtered samples were collected during this reporting period for Appendix III and IV analyses.

Upon completion of the sampling events in September 2024 and March 2025, samples were submitted to GEL for Appendix III and IV analysis. Sample submittals followed chain-of-custody protocol. The field sampling forms generated during this reporting period are included in Appendix B.

3.4 LABORATORY ANALYSES

Laboratory analysis was performed by GEL, which is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all Appendix III and Appendix IV constituents and geochemical parameters analyzed for this project.

The groundwater analytical results from this reporting period are summarized in Table 5, and the laboratory analytical reports are provided in Appendix B. Table 5 excludes data collected for the ACM pilot study. Pilot study activities were detailed in the Semiannual Pilot Study Progress Report (Arcadis 2025) that was included in the *2024 Semiannual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1*), dated February 28, 2025. Georgia Power anticipates submitting a Pilot Study Summary Report as a stand-alone document by August 29, 2025, which will also include data collected after December 2024. The surface water results for the reporting period are summarized in Table 6, and the laboratory analytical reports are provided in Appendix C. The pH field measurements recorded during the groundwater and surface water sampling events are also provided in Tables 5 and 6, respectively.

3.5 QUALITY ASSURANCE AND QUALITY CONTROL

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

Groundwater quality data for the assessment events were independently validated by Environmental Standards in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). Based on the data validation, the data collected during the reporting period are acceptable for meeting project objectives. The associated data validation results are provided in Appendix B with the laboratory reports.

4.0 STATISTICAL ANALYSIS

Statistical analysis of the reporting period groundwater monitoring data was performed by Groundwater Stats Consulting, LLC (GSC), following the appropriate certified statistical methodology for the Site. The reports generated from the statistical analyses are provided in Appendix D (GSC, 2025). A summary of methods and results is provided in the following sections.

4.1 METHODS

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

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to determine if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in Appendix D and summarized in Sections 4.1.1 and 4.1.2.

4.1.1 Appendix III Constituents

The statistical test used to evaluate the groundwater monitoring data was the interwell prediction limit (PL) method for Appendix III constituents (boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids [TDS]) combined with the option of a 1-of-2 verification resampling strategy. Interwell prediction limits, constructed from all available pooled upgradient well data were used to evaluate the most recent compliance sample from each downgradient well reported during the September 2024 and March 2025 sampling events.

If data from a sampling event initially exceeds the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is determined. When the resample result does not verify the initial result, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix IV Constituents

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified

Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to supplemental (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified. GWPS were established for statistical comparison of Appendix IV constituents and are presented in Table 8 and 9.

4.2 STATISTICAL ANALYSES RESULTS

Based on review of the full Appendix III statistical analysis discussion presented in Appendix D, groundwater conditions have not returned to background and assessment monitoring should continue. Review of the Sanitas results indicates that using the GWPS established according to both 40 CFR §257.95(h) and 391-3-4-.10(6)(a), the following Appendix IV SSLs were identified during the current reporting period:

<u>September 2024 Assessment Monitoring Event</u>
AP-1 (Federal and GA EPD CCR Rule):

- Arsenic: MCM-06
- Lithium: DPZ-02

<u>March 2025 Assessment Monitoring Event</u>
AP-1 (Federal and GA EPD CCR Rule):

- Arsenic: MCM-06
- Lithium: DPZ-02

An ASD was approved for lithium at MCM-06 and DPZ-02 by GA EPD on May 1, 2023 (Arcadis 2023).

Based on EPD guidance, groundwater trends at wells with SSLs were further evaluated by GSC using the Sen's Slope/Mann Kendall trend tests. A statistically-significant decreasing trend was identified for arsenic at MCM-06 and no statistical trend was identified for lithium at DPZ-02 following the September 2024 groundwater sampling event. No trend was identified for arsenic at MCM-06 following the March 2025 groundwater sampling event, but a statistically-significant decreasing trend was identified for lithium at DPZ-02. Trends will continue to be evaluated as data is collected in future monitoring events. The full report generated from the analyses is provided in Appendix D.

5.0 NATURE AND EXTENT

The SSL previously identified for arsenic at MCM-06 is vertically delineated below the GWPS by assessment well DPZ-02.

As described in Section 2.3.2, to assess horizontal delineation of arsenic, Georgia Power proactively collected surface water samples from along Transect T2 in the tidal marsh adjacent to well MCM-06 of former AP-1. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments (0.036 mg/L) using a laboratory reporting limit of 0.01 mg/L in surface water samples collected to date (Table 6); therefore, no impacts to surface water have been detected and horizontal delineation is complete.

The groundwater data from the September 2024 and March 2025 assessment monitoring events were used to generate the arsenic iso-concentration map presented on Figures 13 and 14. Additional data from performance monitoring events that were utilized to create these maps can be found in Appendix B.

6.0 MONITORING PROGRAM STATUS

6.1 ASSESSMENT MONITORING STATUS

Pursuant to 40 CFR 257.96(b), Georgia Power will continue to monitor the groundwater at the former AP-1 in accordance with the assessment monitoring program regulations of 40 CFR 257.95 as corrective measures to address arsenic in MCM-06 are evaluated. Pursuant to § 257. 95(g)(1)(iv), the assessment wells will continue to be sampled as part of the ongoing semiannual assessment groundwater monitoring program.

6.2 ASSESSMENT OF CORRECTIVE MEASURES

A *Draft Remedy Selection Report* was submitted to GA EPD on February 28, 2023 (Arcadis 2023). A revision to the *Draft Remedy Selection Report* was submitted on January 18, 2024 (Arcadis 2024) to correct a typographical error. The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

(i) the current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Arcadis, 2020b);
(ii) an evaluation of each corrective measure retained for further consideration following the completed investigations; and,
(iii) an evaluation of corrective measure options using the comparative criteria such as long-term and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) as the proposed groundwater remedy for former AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. As discussed in Section 2.3.1, Georgia Power collected baseline data from wells prior to implementation of a remedial action pilot study. Georgia Power submitted a pilot study workplan and in situ injection request to GA EPD on April 30, 2024 that summarizes the baseline data collected to date, treatability study results, and additional data to support corrective action design. The GA EPD Watershed Protection Branch approved the UIC request in a letter dated June 26, 2024. The GA EPD Land Protection Branch approved the implementation of the pilot study in a letter dated August 2, 2024. The pilot study activities were detailed in the Semiannual Pilot Study Progress Report (Arcadis 2025) that was included in the *2024 Semiannual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1*), dated February 28, 2025. Post-injection monitoring was completed in April 2025, and Georgia Power anticipates submitting a Pilot Study Summary Report as a stand-alone document by August 29, 2025. The report will provide findings and recommendations for the design and implementation of the full-scale remedy. Following submittal of the report, Georgia Power anticipates written approval from GA EPD for public meetings for

the selected remedy. Prior to full-scale remedial actions, Georgia Power will revise the *Draft Remedy Selection Report* to incorporate results of the pilot study and public meeting comments.

6.3 ANNUAL POTABLE WELL SURVEY

As requested by EPD, a survey of water wells was conducted within a two-mile radius from the site. The survey incorporated records from federal, state, and county sources cited in the previous well survey; however, no information (e.g., septic tank permit records) was received from the Glynn County Health Department (NewFields, 2020). A current Environmental Data Resources (EDR) GeoCheck® Report is included in Appendix E. No additional parcels were identified as containing wells during the 2024 survey. A figure has been provided in Appendix E. The findings with the available data are consistent with previous well surveys completed in 2021, 2022, and 2023 (Arcadis, 2022 and 2023, Resolute 2023).

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2025 Annual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1)* was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD rule 391-3-4-.10(6)(c). Statistical evaluations of the groundwater monitoring data from the September 2024 and March 2025 events at the former AP-1 identified the continued presence of SSLs for arsenic in detection well MCM-06 and lithium in assessment well DPZ-02. The lithium SSL in DPZ-02 has been addressed by an ASD with final approval from EPD on May 1, 2023. The arsenic SSL in MCM-06 is vertically delineated below the GWPS by DPZ-02. Surface water data along Transect 2 (T2) will continue to be collected as needed and analyzed for arsenic semiannually and reported in semiannual and annual groundwater monitoring reports. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments in surface water samples collected to date; therefore, no impacts to surface water have been detected and horizontal delineation is complete.

Georgia Power will continue to monitor groundwater in the vicinity of former AP-1 under the current assessment monitoring program and adaptively manage the Site as new data become available. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2023. In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. Georgia Power submitted a Pilot Study Work Plan and Pilot Test Notification Form for EPD review prior to initiating pilot testing. Pilot study injections activities were performed from August 13 to August 20, 2024. Georgia Power anticipates submitting a comprehensive Pilot Study Summary Report by August 29, 2025 as a stand-alone document which will provide findings and recommendations for the design and implementation of the full-scale remedy. The next routine semiannual assessment monitoring event for former AP-1 is scheduled for September 2025.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn 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 ground surface)	Groundwater Zone Screened	Installation Date
MCM-01	Detection	Upgradient	443727.31	852732.08	5.70	8.63	-7.93	-17.93	23.63	SP	07/07/2016
MCM-02	Detection	Upgradient	444496.53	852663.64	8.25	11.25	-5.22	-15.22	23.47	SP	07/06/2016
MCM-04	Detection	Downgradient	444804.73	851695.27	9.50	12.39	-5.18	-15.18	24.68	SP	06/30/2016
MCM-05	Detection	Downgradient	444716.63	851309.91	7.80	10.04	-7.25	-17.25	25.05	SW	07/09/2016
MCM-06	Detection	Downgradient	444407.22	850782.11	7.87	10.15	-6.27	-16.27	24.14	SP	07/08/2016
MCM-07	Detection	Downgradient	444059.38	850195.96	7.52	10.20	-2.76	-12.76	20.28	SP	07/08/2016
MCM-11	Detection	Upgradient	442429.80	851072.91	7.52	10.23	-3.34	-13.34	20.86	SP	07/12/2016
MCM-12	Detection	Downgradient	442821.17	851312.45	8.99	11.87	-6.12	-16.12	25.11	SP	07/12/2016
MCM-14	Detection	Downgradient	443358.82	852317.59	8.66	11.50	-6.23	-16.23	24.89	SP	07/09/2016
MCM-15	Detection	Upgradient	444825.53	851949.02	10.18	12.84	-4.53	-14.53	24.71	SP	06/30/2016
MCM-16	Detection	Upgradient	444551.32	852716.60	13.04	16.02	-1.72	-11.72	24.76	SP	07/06/2019
MCM-17	Detection	Downgradient	443074.41	851899.68	9.09	11.49	-5.62	-15.62	24.71	SC	09/29/2016
MCM-18	Detection	Upgradient	442067.07	851698.41	6.01	9.00	-8.76	-18.76	24.77	SP	10/30/2019
MCM-19	Detection	Upgradient	441157.82	852338.86	5.77	8.71	-9.53	-19.53	25.30	SP	10/30/2019
MCM-20	Detection	Upgradient	440944.40	852185.15	7.07	10.07	-2.98	-12.98	20.05	SP	10/30/2019
DPZ-02	Assessment	Downgradient	444391.02	850757.94	7.34	9.54	-28.84	-33.84	41.18	SP	03/10/2020

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Georgia State Plane NAD83 East Zone referenced for horizontal datum.
Ground surface elevation measured at mag nail in the concrete pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Groundwater screened zone uses USCS designations for soil type.

Table 2
Piezometer Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Well ID	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
MW-01R	443612.59	852690.25	9.91	12.40	-0.04	-15.04	27.44	SM	01/20/2009
MW-02	443349.44	852303.86	8.27	10.95	-0.85	-15.85	26.8	SP	09/11/1996
MW-03	443083.39	851911.86	8.81	11.17	-0.83	-15.83	27	SP	09/11/1996
MW-04	442850.60	851411.19	6.43	9.17	-3.23	-18.23	27.4	SP	09/11/1996
MW-05	442565.17	850741.75	10.53	13.29	0.69	-14.31	27.6	SP	09/11/1996
MW-06R	442413.05	850563.17	10.36	13.36	3.36	-6.64	20	SM	03/06/2018
MW-07	442815.97	850259.66	7.87	9.72	3.22	-11.78	21.5	SC	09/16/1996
MW-09	443747.22	849935.65	6.94	9.81	0.61	-14.39	24.2	SP	09/10/1996
MW-10	444057.81	850184.95	7.60	10.27	-1.83	-16.83	27.1	SC	09/05/1996
MW-11	444358.91	850694.98	7.66	10.27	-6.93	-21.93	32.2	SP	09/10/1996
MW-12	444635.59	851177.23	7.29	9.74	-7.56	-22.56	32.3	SP	09/10/1996
MCM-03	444414.88	851984.67	7.10	9.97	-7.73	-17.73	27.7	SP	07/06/2016
MCM-08	443758.80	849716.96	6.55	9.42	-1.84	-11.84	28.29	SP	07/11/2016
MCM-10	442791.88	850453.05	8.61	11.75	-1.25	-11.25	23.96	SC	07/11/2016
MCM-13	443030.23	851826.19	9.79	12.56	-4.90	-14.90	27.46	SM	07/09/2016
PZ-09	444082.13	849471.64	6.57	9.41	-4.56	-14.56	24.05	SP	10/31/2019
PZ-10	444949.09	851673.98	9.74	12.17	-0.26	-10.26	22.91	SP	11/01/2019
PZ-11	443222.86	849280.51	6.57	9.37	-4.63	-9.63	19.08	SC	11/22/2019
PZ-12	443593.34	849396.87	5.02	7.90	-5.72	-10.72	18.7	SP	11/22/2019
DPZ-01	444695.71	851277.40	7.36	9.71	-25.99	-30.99	40.78	SP	03/10/2020
DPZ-03	444073.16	850218.83	7.04	9.46	-33.03	-38.03	47.57	SP	03/11/2020
DPZ-04	443062.60	851881.94	8.96	11.45	-34.70	-39.70	51.23	SP	03/12/2020
DPZ-05	443376.32	852342.11	8.60	11.00	-35.12	-40.12	51.2	SP	03/11/2020
DPZ-06	444614.79	851846.27	9.59	12.04	-23.38	-28.38	40.5	SP	03/12/2020
RW-1	444093.78	850251.19	7.64	9.46	-6.96	-16.96	26.42	CL	04/20/2017
RW-2	444161.86	850367.10	7.29	9.76	-7.51	-17.51	27.27	CL	04/20/2017
RW-3	444228.54	850479.64	7.23	9.69	-12.60	-22.60	32.29	SP	04/21/2017
RW-4	444299.42	850599.01	7.40	9.43	-7.45	-17.45	26.88	SP	04/21/2017
RW-5	444369.89	850714.06	7.42	9.98	-7.24	-17.24	37.22	SP	04/22/2017
RW-6	444436.29	850831.76	7.50	10.07	-6.51	-26.51	36.58	SP	04/22/2017
RW-7	444504.22	850949.51	7.27	9.72	-13.45	-28.45	38.17	SP	04/23/2017
RW-8	444572.83	851064.32	7.32	9.95	-6.67	-21.67	31.62	SP	04/23/2017
RW-9	444641.26	851181.25	7.55	10.05	-12.66	-27.66	37.71	SP	04/23/2017
RW-10	444706.81	851295.35	7.64	10.36	-12.44	-27.44	37.8	SP	04/24/2017
DR-01	444407.62	850777.93	7.86	7.58	-8.14	-23.14	30.58	SP	05/26/2022
DR-02	444411.68	850784.46	7.90	7.49	-8.10	-23.10	30.03	SP	05/26/2022
DR-03	444422.02	850792.49	7.65	7.40	-8.25	-23.25	31.96	SP	06/01/2024
INW-01	444418.01	850792.41	7.50	7.18	-8.45	-23.45	30.78	SP	06/01/2024
PT-01	444408.70	850768.53	7.82	7.49	-6.89	-16.89	24.38	SP	05/26/2022
PT-02	444414.19	850777.91	7.91	7.64	-6.74	-16.74	24.38	SP	05/31/2022
PT-03	444418.92	850785.95	7.93	7.45	-7.91	-17.91	25.36	SP	06/01/2022
PT-04D	444400.23	850753.07	7.80	7.51	-23.34	-33.34	40.85	SP	05/25/2022

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Georgia State Plane NAD83 East Zone referenced for horizontal datum.
Ground surface elevation measured at the mag nail in the concrete pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Groundwater screemned zone uses USCS designations for soil type.
Piezometers INW-01, PT-01 through PT-04D, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024		March 2025	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
DPZ-01	9.71	LT	7.31	2.40	7.71	2.00
		HT	5.74	3.97	6.39	3.32
DPZ-02	9.54	LT	7.70	1.84	8.06	1.48
		HT	5.66	3.88	6.75	2.79
DPZ-03	9.46	LT	7.02	2.44	7.58	1.88
		HT	5.42	4.04	6.96	2.50
DPZ-04	11.45	LT	8.78	2.67	9.27	2.18
		HT	7.64	3.81	8.49	2.96
DPZ-05	11.00	LT	8.01	2.99	8.22	2.78
		HT	6.48	4.52	7.70	3.30
DPZ-06	12.04	LT	7.51	4.53	8.03	4.01
		HT	7.29	4.75	7.79	4.25
DR-01	7.58	LT	5.65	1.93	6.11	1.47
		HT	3.64	3.94	4.70	2.88
DR-02	7.49	LT	5.50	1.99	6.00	1.49
		HT	3.54	3.95	4.56	2.93
DR-03	7.40	LT	5.74	1.66	6.22	1.18
		HT	3.75	3.65	4.73	2.67
INW-01	7.18	LT	5.46	1.72	6.03	1.15
		HT	3.61	3.57	4.57	2.61
MCM-01	8.63	LT	3.45	5.18	3.89	4.74
		HT	3.15	5.48	3.77	4.86
MCM-02	11.25	LT	3.17	8.08	4.04	7.21
		HT	3.21	8.04	4.05	7.20
MCM-03	9.97	LT	5.74	4.23	5.88	4.09
		HT	5.70	4.27	5.79	4.18

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024		March 2025	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-04	12.39	LT	8.28	4.11	9.05	3.34
		HT	7.52	4.87	8.45	3.94
MCM-05	10.04	LT	7.45	2.59	7.76	2.28
		HT	6.13	3.91	6.71	3.33
MCM-06	10.15	LT	8.26	1.89	8.69	1.46
		HT	6.20	3.95	7.27	2.88
MCM-07	10.20	LT	7.32	2.88	7.55	2.65
		HT	6.48	3.72	7.21	2.99
MCM-08	9.42	LT	4.98	4.44	5.89	3.53
		HT	5.06	4.36	5.82	3.60
MCM-10	11.75	LT	4.44	7.31	4.92	6.83
		HT	4.48	7.27	4.71	7.04
MCM-11	10.23	LT	3.55	6.68	4.58	5.65
		HT	3.66	6.57	4.32	5.91
MCM-12	11.87	LT	7.93	3.94	8.46	3.41
		HT	8.35	3.52	8.55	3.32
MCM-13	12.56	LT	9.54	3.02	10.13	2.43
		HT	9.05	3.51	9.66	2.90
MCM-14	11.50	LT	9.77	1.73	9.84	1.66
		HT	7.50	4.00	8.80	2.70
MCM-15	12.84	LT	7.78	5.06	8.63	4.21
		HT	7.50	5.34	8.30	4.54
MCM-16	16.02	LT	7.67	8.35	8.74	7.28
		HT	7.69	8.33	8.75	7.27
MCM-17	11.49	LT	8.65	2.84	9.15	2.34
		HT	7.87	3.62	8.60	2.89

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024		March 2025	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-18	9.00	LT	4.89	4.11	5.59	3.41
		HT	4.91	4.09	5.70	3.30
MCM-19	8.71	LT	6.35	2.36	7.10	1.61
		HT	4.58	4.13	6.42	2.29
MCM-20	10.07	LT	7.32	2.75	8.56	1.51
		HT	5.46	4.61	7.36	2.71
MW-01R	12.40	LT	8.03	4.37	8.26	4.14
		HT	7.28	5.12	8.07	4.33
MW-02	10.95	LT	7.23	3.72	7.18	3.77
		HT	6.99	3.96	7.02	3.93
MW-03	11.17	LT	7.67	3.50	8.08	3.09
		HT	7.40	3.77	7.75	3.42
MW-04	9.17	LT	5.52	3.65	6.08	3.09
		HT	5.49	3.68	6.04	3.13
MW-05	13.29	LT	4.44	8.85	5.62	7.67
		HT	4.49	8.80	5.40	7.89
MW-06R	13.36	LT	4.42	8.94	5.63	7.73
		HT	4.47	8.89	5.48	7.88
MW-07	9.72	LT	2.63	7.09	3.11	6.61
		HT	2.68	7.04	2.98	6.74
MW-09	9.81	LT	5.47	4.34	6.00	3.81
		HT	5.44	4.37	5.87	3.94
MW-10	10.27	LT	7.38	2.89	7.02	3.25
		HT	6.50	3.77	7.24	3.03
MW-11	10.27	LT	9.15	1.12	9.36	0.91
		HT	6.36	3.91	7.72	2.55

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024		March 2025	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-12	9.74	LT	7.50	2.24	7.93	1.81
		HT	5.96	3.78	6.69	3.05
PT-01	7.49	LT	5.70	1.79	6.08	1.41
		HT	3.52	3.97	4.62	2.87
PT-02	7.64	LT	5.74	1.9	6.19	1.45
		HT	3.66	3.98	4.73	2.91
PT-03	7.45	LT	5.54	1.91	5.96	1.49
		HT	3.49	3.96	5.41	2.04
PT-04D	7.51	LT	5.58	1.93	5.96	1.55
		HT	3.47	4.04	4.54	2.97
PZ-09	9.41	LT	4.83	4.58	6.20	3.21
		HT	4.98	4.43	6.23	3.18
PZ-10	12.17	LT	7.76	4.41	9.22	2.95
		HT	7.18	4.99	8.74	3.43
PZ-11	9.37	LT	4.47	4.90	4.85	4.52
		HT	4.53	4.84	4.77	4.60
PZ-12	7.90	LT	4.54	3.36	5.35	2.55
		HT	4.17	3.73	5.31	2.59
RW-1	9.46	LT	7.02	2.44	7.45	2.01
		HT	6.62	2.84	7.56	1.90
RW-10	10.36	LT	8.09	2.27	8.46	1.90
		HT	6.75	3.61	7.27	3.09
RW-2	9.76	LT	6.99	2.77	7.52	2.24
		HT	7.02	2.74	7.70	2.06
RW-3	9.69	LT	6.86	2.83	7.07	2.62
		HT	6.11	3.58	6.81	2.88

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024		March 2025	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
RW-4	9.43	LT	6.49	2.94	6.73	2.70
		HT	5.86	3.57	6.55	2.88
RW-5	9.98	LT	8.23	1.75	8.61	1.37
		HT	6.14	3.84	7.32	2.66
RW-6	10.07	LT	7.40	2.67	7.71	2.36
		HT	6.62	3.45	7.20	2.87
RW-7	9.72	LT	7.91	1.81	8.44	1.28
		HT	6.19	3.53	7.05	2.67
RW-8	9.95	LT	7.35	2.60	7.77	2.18
		HT	6.62	3.33	7.21	2.74
RW-9	10.05	LT	7.82	2.23	8.24	1.81
		HT	6.29	3.76	6.98	3.07
Oil Dock SW Monitor (Burnett Creek)	NA	LT	NA	-1.23	NA	-2.95
		HT	NA	4.14	NA	2.73
Ash Pond Monitor	NA	LT	NA	3.83	NA	3.91
		HT	NA	3.81	NA	3.94

Notes:
NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
LT - Low Tide Measurement
HT- High Tide Measurement
Surface water transducer monitors used for surface water elevations
NA - indicates not applicable
Piezometers INW-01, PT-01 through PT-04D, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

Table 4
Groundwater Event Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 10 2024 - September 12 2024	March 17 2025 - March 20 2025
			Assessment Event	Assessment Event
Well ID	Hydraulic Location	Compliance Purpose		
DPZ-02	Downgradient	Assessment	X	X
MCM-01	Upgradient	Detection	X	X
MCM-02	Upgradient	Detection	X	X
MCM-04	Downgradient	Detection	X	X
MCM-05	Downgradient	Detection	X	X
MCM-06	Downgradient	Detection	X	X
MCM-07	Downgradient	Detection	X	X
MCM-11	Upgradient	Detection	X	X
MCM-12	Downgradient	Detection	X	X
MCM-14	Downgradient	Detection	X	X
MCM-15	Upgradient	Detection	X	X
MCM-16	Upgradient	Detection	X	X
MCM-17	Downgradient	Detection	X	X
MCM-18	Upgradient	Detection	X	X
MCM-19	Upgradient	Detection	X	X
MCM-20	Upgradient	Detection	X	X

Notes:
X - Indicates well sampled during event

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-01	MCM-01	MCM-02	MCM-02	MCM-04	MCM-04	MCM-05	MCM-05	MCM-06
	Sample Date	09/11/2024	03/18/2025	09/11/2024	03/20/2025	09/10/2024	03/20/2025	09/11/2024	03/19/2025	09/12/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.0753	0.0642	0.0875	0.0922	0.131	0.0876	0.463	0.607	0.745
Calcium	mg/L	9.60	9.39	5.36	6.94	9.06	6.11	78.5	196	134
Chloride	mg/L	9.34	11.9	16.4	13.1	100	45.3	1800	3790	3240
Fluoride	mg/L	0.0669 J	0.0534 J	< 0.0330	< 0.0330	0.0749 J	0.0536 J	0.654	0.557	0.392 J
pH, Field	SU	5.01	5.14	5.43	5.60	5.1 0	4.97	6.94	6.91	7.20
Sulfate	mg/L	42.1	30.4	26.2	24.3	103	41.8	148	399	271
TDS	mg/L	70.0	86.0	64.0	69.0	316	152	3020	7440	5340
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	0.00142 J	< 0.00100
Arsenic	mg/L	0.00586	0.00514	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.0249	0.0447	0.107
Barium	mg/L	0.0868	0.0796	0.0585	0.0480	0.0630	0.0383	0.0230	0.0650	0.0727
Beryllium	mg/L	0.000200 J	< 0.000200	< 0.000200	< 0.000200	0.000321 J	0.000323 J	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00238	0.00268	< 0.000300	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.0290	0.0476	0.0550
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00113	0.00180	0.000895 J
Combined Radium 226 + 228	pCi/L	2.61	1.25 U	6.28	1.16 U	4.33	3.92	2.55	5.29	5.25
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.0669 J	0.0534 J	< 0.0330	< 0.0330	0.0749 J	0.0536 J	0.654	0.557	0.392 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	NA	2.90	NA	12.7	NA	2.20	NA	266	NA
Carbonate Alkalinity as CaCO3	mg/L	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA
Total Alkalinity as CaCO3	mg/L	NA	2.90	NA	12.7	NA	2.20	NA	266	NA
Iron	mg/L	NA	2.02	NA	0.518	NA	0.548	NA	0.216	0.0435 J
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0445 J
Ferrous (II) Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.5
Magnesium	mg/L	NA	1.84	NA	1.79	NA	3.73	NA	333	NA
Potassium	mg/L	NA	1.86	NA	0.956	NA	6.27	NA	71.7	NA
Sodium	mg/L	NA	9.02	NA	15.9	NA	37.7	NA	2030	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	47

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-06	MCM-07	MCM-07	MCM-11	MCM-11	MCM-12	MCM-12	MCM-14	MCM-14
	Sample Date	03/19/2025	09/11/2024	03/19/2025	09/10/2024	03/18/2025	09/10/2024	03/17/2025	09/11/2024	03/17/2025
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.822	0.888	0.911	0.0483	0.0522	1.31	1.38	0.415	0.341
Calcium	mg/L	198	72.5	98.9	6.36	3.66	4.67	4.62	41.3	171
Chloride	mg/L	4590	2440	2720	11.2	4.51	297	311	1320	3240
Fluoride	mg/L	0.407 J	0.692	0.798 J	0.202	0.0773 J	1.67	1.36	0.164 J	0.273 J
pH, Field	SU	7.07	6.53	6.61	5.19	5.06	6.44	6.49	6.66	6.44
Sulfate	mg/L	549	296	404	24.3	26.0	0.462	1.83	180	443
TDS	mg/L	8300	4640	5420	79.0	70.0	1230	1220	2480	6320
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.116	0.00833	0.0106	0.0163	0.00783	< 0.00200	< 0.00200	0.00215 J	< 0.00200
Barium	mg/L	0.155	0.0454	0.0492	0.0301	0.0313	0.0633	0.0658	0.0279	0.109
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00137	0.00148	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00672 J	0.00739 J	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000453 J	0.000481 J	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0636	0.0147	0.0123	< 0.00300	< 0.00300	0.00967 J	0.00974 J	0.0204	0.0373
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000896 J	0.000949 J	0.000592 J	< 0.000200	< 0.000200	0.000276 J	0.000440 J	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	8.33	5.35	4.55	2.49	1.58 U	4.80	3.37	3.40	6.60
Selenium	mg/L	< 0.00150	< 0.00150	0.00157 J	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.407 J	0.692	0.798 J	0.202	0.0773 J	1.67	1.36	0.164 J	0.273 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	287	NA	227	NA	10.4	NA	459	NA	143
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725
Total Alkalinity as CaCO3	mg/L	287	NA	227	NA	10.4	NA	459	NA	143
Iron	mg/L	0.0574 J	NA	0.0552 J	NA	6.22	NA	0.254	NA	0.0456 J
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	354	NA	220	NA	1.28	NA	8.13	NA	339
Potassium	mg/L	94.5	NA	69.6	NA	0.513	NA	17.7	NA	78.2
Sodium	mg/L	2400	NA	1670	NA	12.2	NA	407	NA	1790
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-15	MCM-15	MCM-16	MCM-16	MCM-17	MCM-17	MCM-18	MCM-18	MCM-19
	Sample Date	09/11/2024	03/20/2025	09/11/2024	03/20/2025	09/10/2024	03/18/2025	09/11/2024	03/19/2025	09/11/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.0350	0.0644	0.0517	0.0594	1.65	1.64	0.172	0.175	0.610
Calcium	mg/L	0.928	4.54	5.49	6.41	57.2	72.2	15.3	17.9	127
Chloride	mg/L	3.34	10.6	9.65	8.86	3080	2900	856	992	4880
Fluoride	mg/L	< 0.0330	< 0.0330	< 0.0330	< 0.0330	0.986 J	1.45	0.267	0.564	0.743 J
pH, Field	SU	4.99	5.34	5.41	5.52	6.11	6.59	4.04	4.49	4.61
Sulfate	mg/L	5.75	11.5	23.2	21.9	323	363	149	179	781
TDS	mg/L	28.0	63.0	54.0	61.0	5490	5200	1530	1930	9180
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00538	0.00584	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.00210 J	0.00245 J	0.0134
Barium	mg/L	0.0243	0.0374	0.0651	0.0421	0.0724	0.0751	0.123	0.123	0.0837
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000228 J	0.00225	0.00248	0.0157
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00441 J	0.00481 J	< 0.00300	< 0.00300	0.00601 J
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.0211	0.0230	< 0.00300	< 0.00300	0.0200
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.00123	0.00118	< 0.000200	< 0.000200	< 0.000200	0.000280 J	< 0.000200	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	4.32	1.32 U	1.89	1.52	4.29	6.41	9.30	7.26	15.5
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00440 J	0.00560	0.0469
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	< 0.0330	< 0.0330	< 0.0330	< 0.0330	0.986 J	1.45	0.267	0.564	0.743 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	NA	12.6	NA	11.1	NA	471	NA	< 0.725	NA
Carbonate Alkalinity as CaCO3	mg/L	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA
Total Alkalinity as CaCO3	mg/L	NA	12.6	NA	11.1	NA	471	NA	< 0.725	NA
Iron	mg/L	NA	1.20	NA	0.633	NA	0.225	NA	26.3	NA
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NA	0.882	NA	1.94	NA	77.0	NA	60.3	NA
Potassium	mg/L	NA	5.06	NA	1.22	NA	41.5	NA	8.42	NA
Sodium	mg/L	NA	11.2	NA	10.2	NA	899	NA	570	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-19	MCM-20	MCM-20	DPZ-02	DPZ-02
	Sample Date	03/19/2025	09/11/2024	03/19/2025	09/11/2024	03/18/2025
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	0.684	0.841	0.751	1.52	1.44
Calcium	mg/L	139	87.8	92.4	162	158
Chloride	mg/L	5330	4420	4320	4570	4080
Fluoride	mg/L	0.831 J	2.83	2.94	< 0.330	0.789 J
pH, Field	SU	5.16	3.58	3.83	7.18	7.20
Sulfate	mg/L	843	852	920	752	635
TDS	mg/L	10100	8630	9900	8970	9000
Appendix IV						
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.0158	0.0197	0.0183	0.0121	0.0185
Barium	mg/L	0.0871	0.0823	0.0852	0.0398	0.0462
Beryllium	mg/L	0.0124	0.0127	0.0122	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	0.00559 J	0.00551 J	0.00559 J	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	0.0181	0.0204	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0173	0.0201	0.0182	0.0667	0.0665
Mercury	mg/L	0.0000980 J	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	0.000217 J	0.000310 J
Combined Radium 226 + 228	pCi/L	19.2	29.4	26.7	7.95	4.64
Selenium	mg/L	0.0481	0.0212	0.0279	0.00176 J	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.831 J	2.83	2.94	< 0.330	0.789 J
Additional Parameters						
Bicarbonate Alkalinity as CaCO3	mg/L	27.2	NA	< 0.725	NA	398
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	NA	< 0.725	NA	< 0.725
Total Alkalinity as CaCO3	mg/L	27.2	NA	< 0.725	NA	398
Iron	mg/L	121	NA	107	NA	0.0734 J
Iron, Dissolved	mg/L	NA	NA	NA	NA	NA
Ferrous (II) Iron	mg/L	NA	NA	NA	NA	NA
Magnesium	mg/L	426	NA	266	NA	263
Potassium	mg/L	68.0	NA	59.9	NA	92.3
Sodium	mg/L	2860	NA	2410	NA	2360
Sulfide	mg/L	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Notes:
TDS - Total Dissolved Solids
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the method detection limit (MDL). The value
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		BG-1LT	BG-1LT	BG-2HT	BG-2HT	T2-1HT
Sample Date		09/18/2024	03/26/2025	09/18/2024	03/26/2025	09/18/2024
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.19	2.29	2.56	2.89	2.14
Calcium	mg/L	211	222	248	275	216
Chloride	mg/L	8710	8190	10800	10800	9010
Fluoride	mg/L	< 0.825	1.13 J	0.948 J	1.23 J	< 0.825
pH, Field	SU	7.30	7.56	7.22	7.63	7.31
Sulfate	mg/L	1430	1580	1670	2100	1400
TDS	mg/L	17500	18000	20400	21600	17100
Appendix IV						
Arsenic	mg/L	0.00461 J	0.00291 J	0.00501 J	0.00336 J	0.00421 J
Fluoride	mg/L	< 0.825	1.13 J	0.948 J	1.23 J	< 0.825
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	93.5	84.4	99.4	105	94.4
Bicarbonate Alkalinity as CaCO3	mg/L	93.5	84.4	99.4	105	94.4
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	619	648	735	817	623
Potassium	mg/L	195	201	232	253	198
Sodium	mg/L	5200	5380	6480	7000	5350

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-1HT	T2-2HT	T2-2HT	T2-2HTS	T2-2HTS
Sample Date		03/26/2025	09/18/2024	03/26/2025	09/18/2024	03/26/2025
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.10	2.20	2.11	2.21	2.16
Calcium	mg/L	200	218	203	222	208
Chloride	mg/L	8650	8990	8680	8930	7980
Fluoride	mg/L	1.14 J	< 0.825	1.07 J	< 0.825	1.07 J
pH, Field	SU	7.50	7.26	7.44	7.26	7.49
Sulfate	mg/L	1700	1430	1350	1390	1250
TDS	mg/L	15800	17900	16000	17100	15500
Appendix IV						
Arsenic	mg/L	0.00235 J	0.00432 J	0.00274 J	0.00416 J	0.00270 J
Fluoride	mg/L	1.14 J	< 0.825	1.07 J	< 0.825	1.07 J
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	84.6	96.6	84.7	95.0	84.8
Bicarbonate Alkalinity as CaCO3	mg/L	84.6	96.6	84.7	95.0	84.8
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	590	635	601	642	610
Potassium	mg/L	183	199	186	203	189
Sodium	mg/L	5150	5410	5190	5450	5140

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-3HT	T2-3HT	T2-3HTS	T2-3HTS	T2-4HT
Sample Date		09/18/2024	03/26/2025	09/18/2024	03/26/2025	09/18/2024
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.37	2.34	2.18	2.26	2.29
Calcium	mg/L	228	225	215	212	222
Chloride	mg/L	9320	8260	8760	8290	9310
Fluoride	mg/L	1.03 J	1.04 J	< 0.825	1.13 J	< 0.825
pH, Field	SU	7.28	7.46	7.31	7.45	7.29
Sulfate	mg/L	1450	1530	1410	1640	1520
TDS	mg/L	18800	19000	16900	16000	19100
Appendix IV						
Arsenic	mg/L	0.00442 J	0.00276 J	0.00432 J	0.00281 J	0.00429 J
Fluoride	mg/L	1.03 J	1.04 J	< 0.825	1.13 J	< 0.825
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	97.3	86.6	94.3	84.2	95.4
Bicarbonate Alkalinity as CaCO3	mg/L	97.3	86.6	94.3	84.2	95.4
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	668	658	626	620	647
Potassium	mg/L	211	204	198	193	206
Sodium	mg/L	5700	5410	5380	5010	5510

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-4HT	T2-4HTS	T2-4HTS	T2-4LT	T2-4LT
Sample Date		03/26/2025	09/18/2024	03/26/2025	09/18/2024	03/26/2025
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.17	2.22	2.13	1.88	1.71
Calcium	mg/L	209	212	207	185	164
Chloride	mg/L	8230	9010	7960	7130	6340
Fluoride	mg/L	1.04 J	< 0.825	1.07 J	< 0.825	0.934 J
pH, Field	SU	7.47	7.30	7.47	7.23	7.42
Sulfate	mg/L	1680	1460	1590	1220	1360
TDS	mg/L	16700	17900	16400	14000	12500
Appendix IV						
Arsenic	mg/L	0.00281 J	0.00434 J	0.00290 J	0.00438 J	0.00296 J
Fluoride	mg/L	1.04 J	< 0.825	1.07 J	< 0.825	0.934 J
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	82.7	93.9	82.2	88.7	81.2
Bicarbonate Alkalinity as CaCO3	mg/L	82.7	93.9	82.2	88.7	81.2
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	601	627	612	525	463
Potassium	mg/L	188	196	188	165	144
Sodium	mg/L	5030	5340	5140	4450	3880

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Notes:
TDS - Total Dissolved Solids
mg/L - milligrams per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.

Table 7
Groundwater Flow Velocity Calculations
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, US-GA

Gauging Event	Well Pair	Tidal Stage	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)	Average Hydraulic Conductivity (K) (ft/day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
September 2024	MCM-11 to MCM-12	LT	6.68	3.94	2.74	458.76	0.0060	3.40	0.35	0.058	21.18
September 2024	MCM-11 to MCM-12	HT	6.57	3.52	3.05	458.76	0.0066	3.40	0.35	0.065	23.57
September 2024	MCM-16 to MCM-02	LT	8.35	8.08	0.27	76.17	0.0035	3.40	0.35	0.034	12.57
September 2024	MCM-16 to MCM-02	HT	8.33	8.04	0.29	76.17	0.0038	3.40	0.35	0.037	13.50
March 2025	MCM-11 to MCM-12	LT	5.65	3.41	2.24	458.76	0.0049	3.40	0.35	0.047	17.31
March 2025	MCM-11 to MCM-12	HT	5.91	3.32	2.59	458.76	0.0056	3.40	0.35	0.055	20.02
March 2025	MCM-16 to MCM-02	LT	7.28	7.21	0.07	76.17	0.0009	3.40	0.35	0.009	3.26
March 2025	MCM-16 to MCM-02	HT	7.27	7.20	0.07	76.17	0.0009	3.40	0.35	0.009	3.26

Notes:
ft – feet
HT - High Tide Measurement
LT - Low Tide Measurement
In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 0.27 to 52.72 feet/day with an average of 3.40 feet/day
Effective porosity of 35% was selected for the alluvial coastal deposits of very fine to fine sands ranging from the surface to 33-43ft below ground surface identified suring subsurface investigations at the site
See figures for illustrated flow path
Groundwater flow velocity equation: V= (K* i)ne

Table 8
Summary of Background Levels and GWPS - September 2024
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified Limit	Background Limit	GWPS
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.032	0.032
Barium	mg/L	2		0.22	2
Beryllium	mg/L	0.004		0.021	0.021
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt	mg/L		0.006	0.036	0.036
Combined Radium 226 + 228	pCi/L	5		34.9	34.9
Fluoride	mg/L	4		3.98	4
Lead	mg/L		0.015	0.005	0.015
Lithium	mg/L		0.04	0.049	0.049
Mercury	mg/L	0.002		0.0007	0.002
Molybdenum	mg/L		0.1	0.01	0.1
Selenium	mg/L	0.05		0.049	0.05
Thallium	mg/L	0.002		0.002	0.002

Notes:
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L - milligrams per liter
pCi/L - picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or
(iii) background levels for constituents where the background level is higher than the MCL or RSL

Table 9
Summary of Background Levels and GWPS - March 2025
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified Limit	Background Limit	GWPS
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.032	0.032
Barium	mg/L	2		0.22	2
Beryllium	mg/L	0.004		0.021	0.021
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt	mg/L		0.006	0.036	0.036
Combined Radium 226 + 228	pCi/L	5		34.9	34.9
Fluoride	mg/L	4		3.98	4
Lead	mg/L		0.015	0.002	0.015
Lithium	mg/L		0.04	0.049	0.049
Mercury	mg/L	0.002		0.0007	0.002
Molybdenum	mg/L		0.1	0.002	0.1
Selenium	mg/L	0.05		0.049	0.05
Thallium	mg/L	0.002		0.002	0.002

Notes:
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L - milligrams per liter
pCi/L - picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or
(iii) background levels for constituents where the background level is higher than the MCL or RSL

FIGURES



2025 Annual Groundwater Monitoring and Corrective Action Report

ENSAFE

1080 Holcomb Bridge Road
Building 200, Suite 340
Roswell, GA 30076

Plant McManus Former AP-1
Site Location Map

Brunswick, GA

Legend

CCR Permitted Boundary

0 500 1,000 2,000 Feet

N

Figure 1

July 2025



2025 Annual Groundwater Monitoring and Corrective Action Report

ENSAFE

Roswell, GA | July 2025

Plant McManus
Former AP-1
Monitoring Well Location Map

Brunswick, GA

Figure

2

N

0 150 300 600 900

Feet

PZ-10
DPZ-01
RW-10
RW-9
RW-8
MW-12
PT-03
PT-02
PT-01
INW-01
RW-7
PT-04D
RW-6
RW-5
DR-03
DR-02
DR-01
MW-11
RW-4
RW-3
RW-2
RW-1
DPZ-03
MW-10
PZ-09
DPZ-06
MCM-03
MCM-08
MW-09
PZ-12
PZ-11
MW-01R
DPZ-05
MW-02
MW-03
DPZ-04
MCM-13
MW-04
MW-07
MCM-10
MWA-18
MW-05
MW-06R

Legend

- Groundwater Piezometers
- Deep Piezometers
- HSRA Well
- CCR Permitted Boundary

Note:
Piezometers INW-01, PT-01 through PT-04D and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network. MWA-18 is monitored through GA EPD HSRA, not CCR.

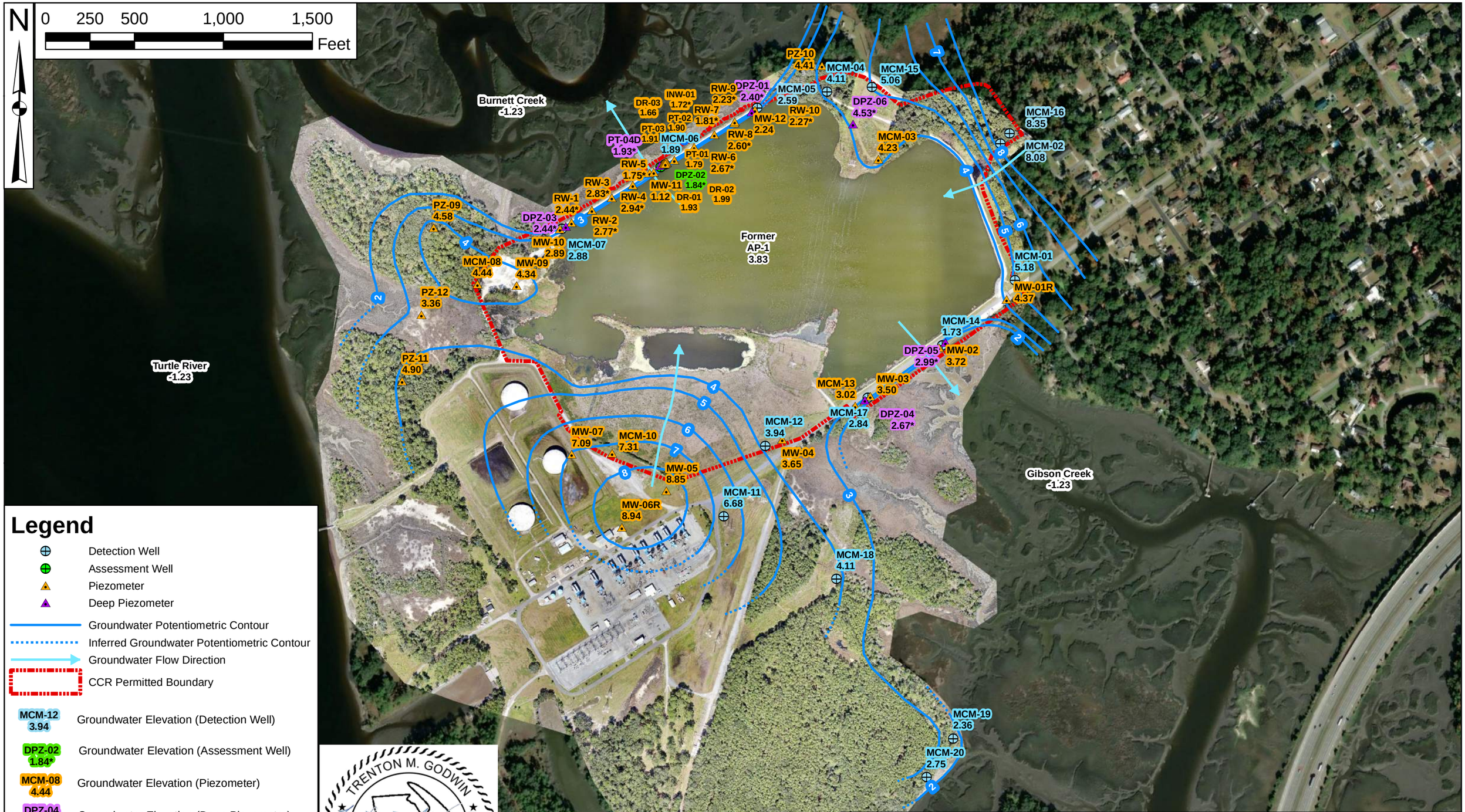
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Roswell, GA | July 2025

Plant McManus
Former AP-1
Piezometer Location Map
Brunswick, GA

Figure
3



Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.94 — Groundwater Elevation (Detection Well)

DPZ-02 1.84* — Groundwater Elevation (Assessment Well)

MCM-08 4.44 — Groundwater Elevation (Piezometer)

DPZ-04 2.67* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

TRENTON M. GODWIN
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2086

ENSAFE

Roswell, GA | July 2025

Plant McManus
Former AP-1
Potentiometric Surface Map
Low Tide September 10, 2024
Brunswick, GA

Figure
4

2025 Annual Groundwater Monitoring and Corrective Action Report

N

0 250 500 1,000 1,500

Feet

Burnett Creek 4.14

Turtle River 4.14

Gibson Creek 4.14

Former AP-1 3.81

PZ-10 4.99
MCM-04 4.87
MCM-15 5.34
RW-9 3.76*
DPZ-01 3.97*
MCM-05 3.91
DPZ-06 4.75*
MCM-16 8.33
DR-03 3.65
INW-01 3.57*
RW-7 3.53*
RW-10 3.61*
PT-02 3.98
MW-12 3.78
PT-03 3.96
RW-8 3.33*
MCM-03 4.27
PT-04D 4.04*
MCM-06 3.95
PT-01 3.97
RW-6 3.45*
MCM-02 8.04
RW-5 3.84*
DPZ-02 3.88*
RW-3 3.58*
MW-11 3.91
DR-02 3.95
RW-1 2.84*
RW-4 3.57*
DR-01 3.94
PZ-09 4.43
DPZ-03 4.04*
RW-2 2.74*
MW-10 3.77
MCM-07 3.72
MCM-01 5.48
MCM-08 4.36
MW-09 4.37
MW-01R 5.12
PZ-12 3.73
MCM-14 4.00
DPZ-05 4.52*
MW-02 3.96
PZ-11 4.84
MCM-17 3.62
MCM-13 3.51
MW-03 3.77
MCM-12 3.52
DPZ-04 3.81*
MW-07 7.04
MCM-10 7.27
MW-04 3.68
MW-05 8.80
MCM-11 6.57
MW-06R 8.89
MCM-18 4.09
MCM-19 4.13
MCM-20 4.61

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.52 — Groundwater Elevation (Detection Well)

DPZ-02 3.88* — Groundwater Elevation (Assessment Well)

MCM-08 4.36 — Groundwater Elevation (Piezometer)

DPZ-04 3.81* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

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No. 2086

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Roswell, GA | July 2025

Plant McManus
Former AP-1
Potentiometric Surface Map
High Tide September 10, 2024
Brunswick, GA

Figure 5

2025 Annual Groundwater Monitoring and Corrective Action Report



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No. 2086

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 1.89 — Groundwater Elevation (Detection Well)
- DPZ-02 1.84* — Groundwater Elevation (Assessment Well)
- DR-01 1.93 — Groundwater Elevation (Piezometer)
- PT-04D 1.93 — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

2025 Annual Groundwater Monitoring and Corrective Action Report

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Roswell, GA | July 2025

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
Low Tide September 10, 2024
Brunswick, GA

Figure
6

N

0 3 6 12 18 Feet

Burnett Creek
4.14

DR-03
3.65

PT-03
3.96

INW-01
3.57*

PT-02
3.98

DR-02
3.95

PT-01
3.97

DR-01
3.94

MCM-06
3.95

PT-04D
4.04*

DPZ-02
3.88*

Former
AP-1
3.81

4.1

4.0

3.9

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Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary

MCM-06 3.95 Groundwater Elevation (Detection Well)

DPZ-02 3.88* Groundwater Elevation (Assessment Well)

DR-01 3.94 Groundwater Elevation (Piezometer)

PT-04D 4.04 Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

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Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
High Tide September 10, 2024
Brunswick, GA

Figure

7

N

0 250 500 1,000 1,500

Feet

Burnett Creek
-2.95

Turtle River
-2.95

Gibson Creek
-2.95

Former
AP-1
3.91

PZ-10 2.95
MCM-04 3.34
MCM-15 4.21
DPZ-06 4.01
MCM-16 7.28
MCM-02 7.21
MCM-03 4.09
MCM-01 4.74
MW-01R 4.14
MCM-14 1.66
DPZ-05 2.78
MW-02 3.77
MW-03 3.09
MCM-13 2.43
MCM-17 2.34
DPZ-04 2.18*
MCM-12 3.41
MW-04 3.09
MCM-11 5.65
MCM-18 3.41
MCM-19 1.61
MCM-20 1.51
MW-07 6.61
MCM-10 6.83
MW-05 7.67
MW-06R 7.73
PZ-09 3.21
PZ-12 2.55
PZ-11 4.52
MCM-08 3.53
MW-09 3.81
MW-10 3.25
MCM-07 2.65
DPZ-03 1.88*
RW-1 2.01*
RW-2 2.24*
RW-3 2.62*
RW-4 2.70*
RW-5 1.37*
RW-6 2.36*
RW-7 1.28*
RW-8 2.18*
RW-9 1.81*
RW-10 1.90*
DPZ-01 2.00*
MCM-05 2.28
MW-12 1.81
INW-01 1.15*
DR-03 1.18
PT-02 1.45
PT-03 1.49
PT-04D 1.55*
MCM-06 1.46
PT-01 1.41
DPZ-02 1.48*
MW-11 0.91
DR-01 1.47
DR-02 1.49

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.41 — Groundwater Elevation (Detection Well)

DPZ-02 1.48* — Groundwater Elevation (Assessment Well)

MCM-08 3.53 — Groundwater Elevation (Piezometer)

DPZ-04 2.18* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

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No. 2086

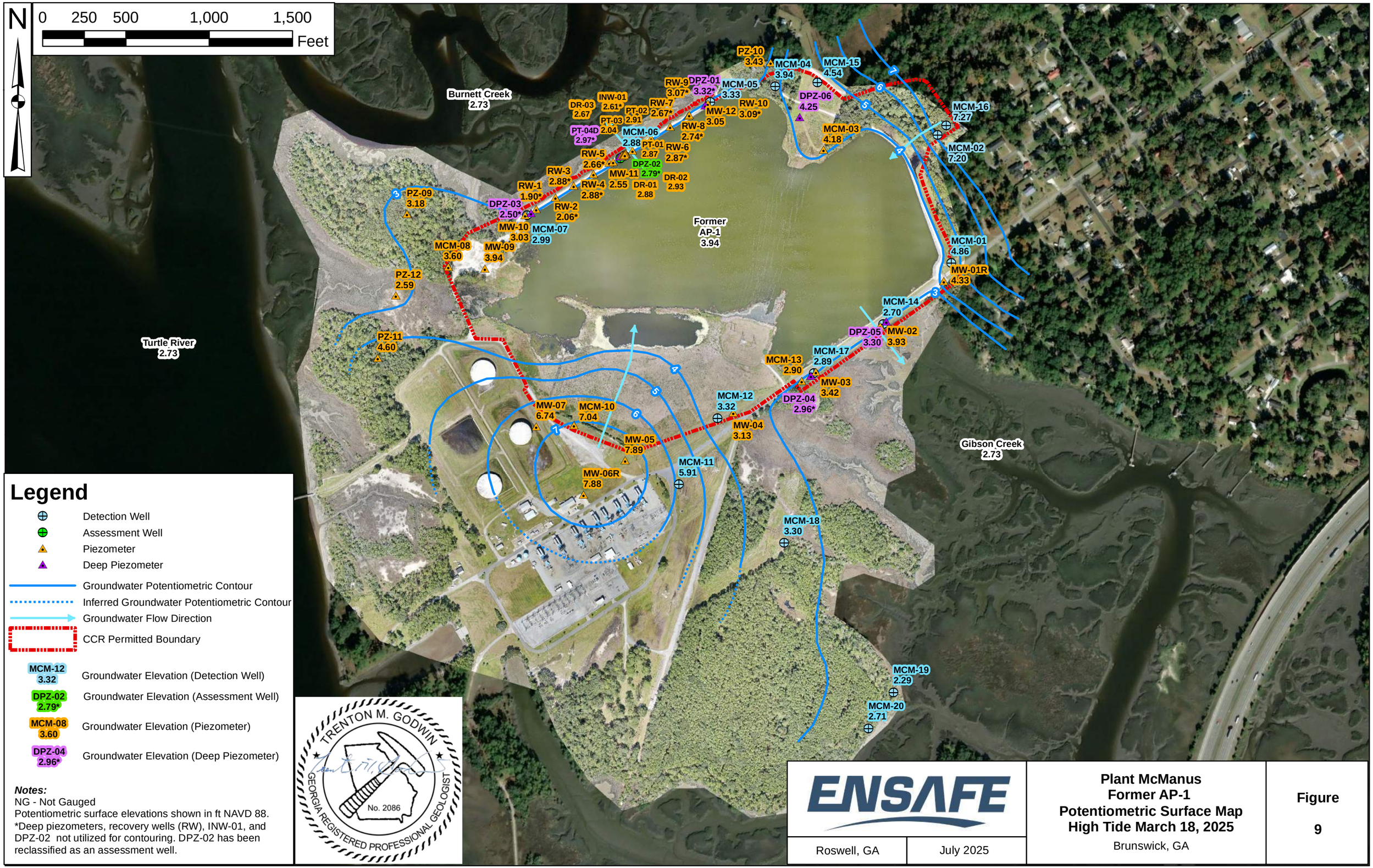
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Roswell, GA | July 2025

Plant McManus
Former AP-1
Potentiometric Surface Map
Low Tide March 20, 2025
Brunswick, GA

Figure
8

2025 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.32 — Groundwater Elevation (Detection Well)

DPZ-02 2.79* — Groundwater Elevation (Assessment Well)

MCM-08 3.60 — Groundwater Elevation (Piezometer)

DPZ-04 2.96* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

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Roswell, GA | July 2025

Plant McManus
Former AP-1
Potentiometric Surface Map
High Tide March 18, 2025
Brunswick, GA

Figure 9

2025 Annual Groundwater Monitoring and Corrective Action Report

N

0 3 6 12 18

Feet

Burnett Creek
-2.95

DR-03
1.18

PT-03
1.49

INW-01
1.15*

PT-02
1.45

DR-02
1.49

PT-01
1.41

DR-01
1.47

MCM-06
1.46

PT-04D
1.55*

DPZ-02
1.48*

Former
AP-1
3.91

TRENTON M. GODWIN
No. 2086
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Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 1.46 — Groundwater Elevation (Detection Well)
- DPZ-02 1.48* — Groundwater Elevation (Assessment Well)
- DR-01 1.47 — Groundwater Elevation (Piezometer)
- PT-04D 1.55 — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

2025 Annual Groundwater Monitoring and Corrective Action Report

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Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
Low Tide March 18, 2025
Brunswick, GA

Figure

10

N

0 3 6 12 18 Feet

Burnett Creek
2.73

PT-04D
2.97*

PT-01
2.87

PT-02
2.91

PT-03
2.04

DR-01
2.88

DR-02
2.93

DR-03
2.67

INW-01
2.61*

MCM-06
2.88

DPZ-02
2.79*

Former
AP-1
3.94

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Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary

MCM-06 2.88 Groundwater Elevation (Detection Well)

DPZ-02 2.79* Groundwater Elevation (Assessment Well)

DR-01 2.88 Groundwater Elevation (Piezometer)

PT-04D 2.97* Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

2025 Annual Groundwater Monitoring and Corrective Action Report

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Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
High Tide March 18, 2025
Brunswick, GA

Figure

11

N

0 400 800 1,600 2,400 3,200

Feet

BG-1LT

Cowpen Creek

T2-4HT
T2-4HTS
T2-4LT
T2-3HT
T2-3HTS
T2-2HT
T2-2HTS
T2-1HT

Transect 2

Burnett Creek

Former AP-1

Mainland

Turtle River

Island

Gibson Creek

BG-2HT

Legend

- Surface Water Sample
- CCR Permitted Boundary

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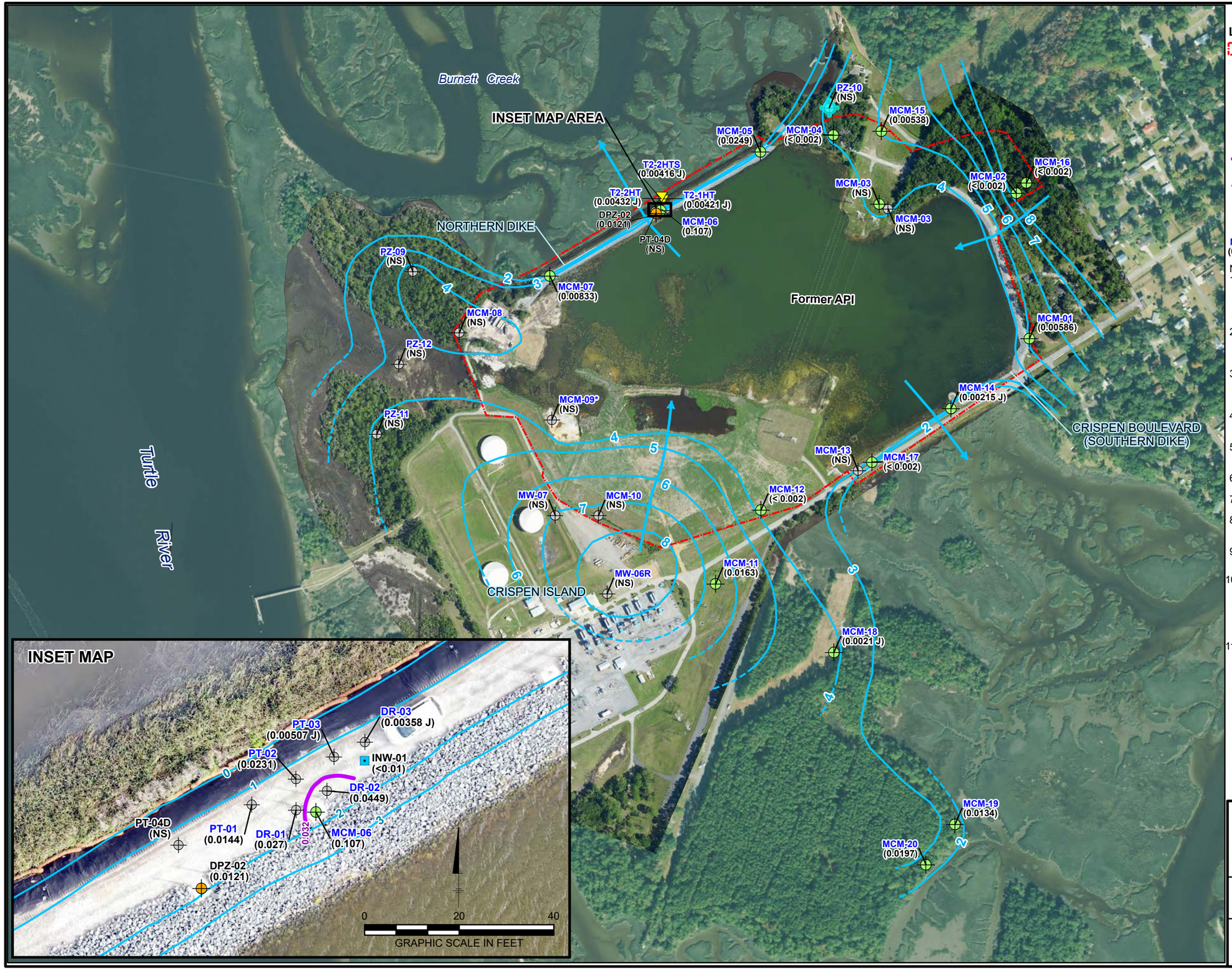
Roswell, GA | July 2025

Plant McManus
Former AP-1
Surface Water Sample Locations
Brunswick, GA

Figure

12

2025 Annual Groundwater Monitoring and Corrective Action Report



LEGEND

- PERMITTED CCR BOUNDARY
- DETECTION WELL
- PIEZOMETER
- ASSESSMENT WELL
- INJECTION WELL
- SURFACE WATER SAMPLE
- ARSENIC ISCONCENTRATION LINE DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR (FT NAVD 88) DASHED WHERE INFERRED
- NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
- MCM-01 (0.00586) WELL ID WITH ARSENIC CONCENTRATION

NOTES:

1. BLUE LABELS INDICATE WELL WAS USED FOR GROUNDWATER ELEVATION CONTOURING. BLACK LABELS ARE ARSENIC CONCENTRATIONS.
2. DATA SHOWN FROM GROUNDWATER SAMPLING EVENT CONDUCTED SEPTEMBER 2024.
3. ISOCONCENTRATION LINE DEVELOPED FROM GROUNDWATER COLLECTED DURING SEPTEMBER 2024 SAMPLING EVENT.
4. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L).
5. ASSESSMENT WELL DPZ-02 DATA ARE NOT USED IN ISOCONTOUR DEVELOPMENT.
6. NS = NOT SAMPLED.
7. CCR = COAL COMBUSTION RESIDUALS
8. < = NOT DETECTED AT OR ABOVE ADJUSTED METHOD DETECTION LIMIT.
9. ARSENIC GROUNDWATER PROTECTION STANDARD = 0.032 MILLIGRAMS PER LITER.
10. LOW TIDE GROUNDWATER CONTOURS BASED ON INTERPRETATION PRESENTED IN *SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT (RESOLUTE 2025).*
11. A GA EPD-APPROVED PILOT INJECTION STUDY WAS COMPLETED IN AUGUST 2024 AT INJECTION WELL INW-01.

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
IMAGERY SOURCES:
USA NAIP NATURAL COLOR
MAP PLAN ORTHOMOSAIC DRONE FLIGHTS

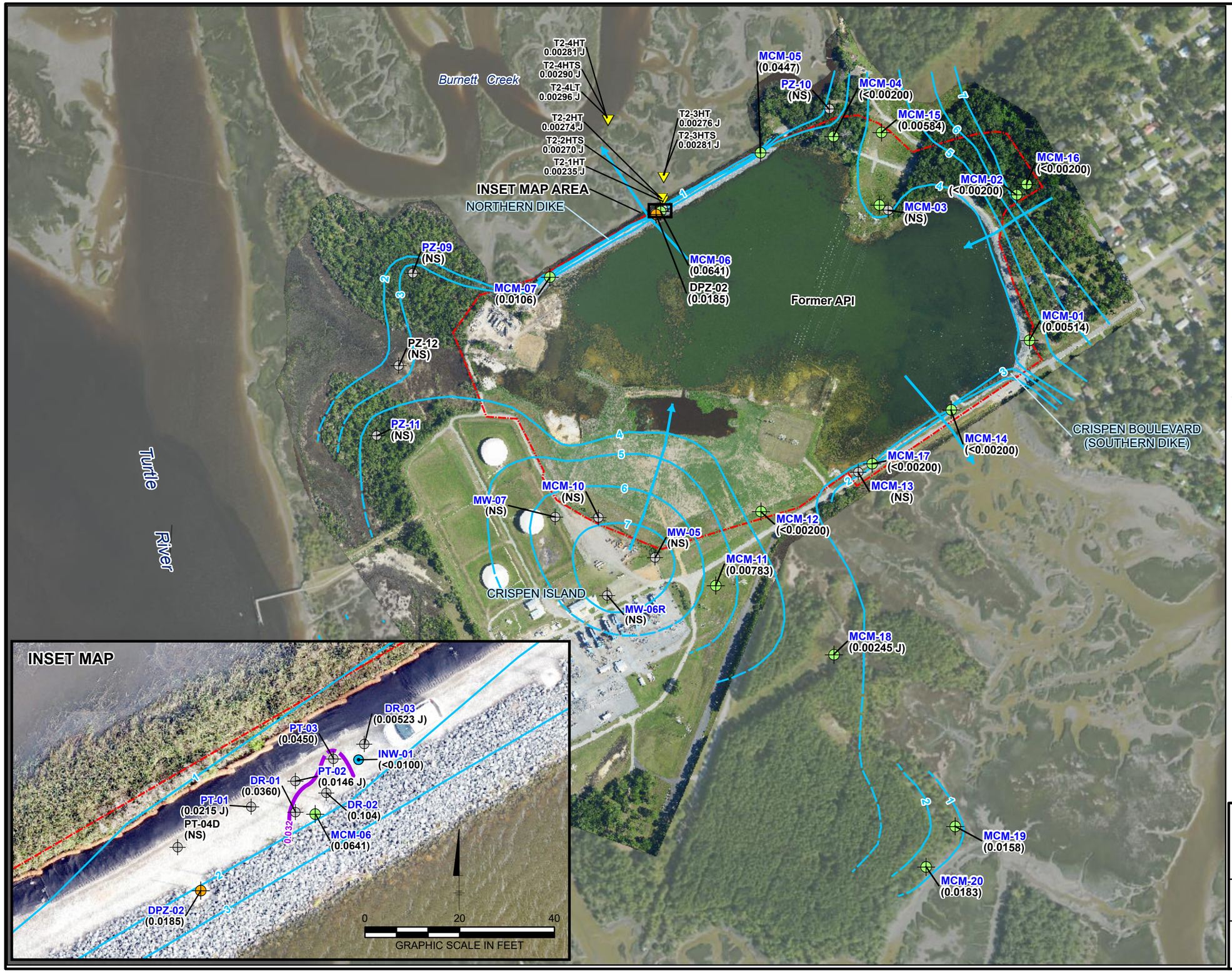
Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ARSENIC ISOCONCENTRATION MAP SEPTEMBER 2024

ARCADIS

FIGURE 13



LEGEND

- PERMITTED CCR BOUNDARY
- DETECTION WELL
- INJECTION WELL
- PIEZOMETER
- ASSESSMENT WELL
- SURFACE WATER SAMPLE
- ARSENIC ISCONCENTRATION LINE (MARCH AND APRIL 2025) DASHED WHERE INFERRED
- MCM-01 (0.0043) WELL ID WITH ARSENIC CONCENTRATION
- -4 GROUNDWATER ELEVATION CONTOUR, FEET NAVD88

NOTES:

1. BLUE LABELS INDICATE WELL WAS USED FOR GROUNDWATER ELEVATION CONTOURING. BLACK LABELS ARE ARSENIC CONCENTRATIONS.
2. SAMPLES AT INJECTION PILOT STUDY LOCATIONS (INW-01, DR-02, PT-03, DR-03, PT-01, PT-02, AND DR-01, AND MCM-06) WERE SAMPLED IN APRIL 2025 AS PART OF PERFORMANCE MONITORING, ALL OTHERS WERE COLLECTED IN MARCH 2025 AS PART OF ROUTINE MONITORING.
3. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L).
4. ASSESSMENT WELL DPZ-02 DATA ARE NOT USED IN ISOCONTOUR DEVELOPMENT.
5. NS = NOT SAMPLED.
6. J = ESTIMATED VALUE.
7. CCR = COAL COMBUSTION RESIDUALS
8. < = NOT DETECTED AT OR ABOVE ADJUSTED REPORTING LIMIT.
9. ARSENIC GROUNDWATER PROTECTION STANDARD = 0.032 MILLIGRAMS PER LITER.
10. LOW TIDE GROUNDWATER CONTOURS BASED ON INTERPRETATION PRESENTED IN THE SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT (ENSAFE 2025).

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988.

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ARSENIC ISOCONCENTRATION MAP MARCH AND APRIL 2025

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FIGURE
14

APPENDIX A

WELL INSTALLATION, MAINTENANCE AND REPAIR DOCUMENTATION

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Georgia Power

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

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Prepared For:
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Brunswick, Georgia

Our Ref:
30180421.00009



David Prouty, P.G.
Project Geologist



Geoff Gay, P.E.
Technical Expert, Vice President

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1 Introduction 1
2 Drilling and Well Installation 1
2.1 Drilling Method 1
2.2 Screened Interval 1
2.3 Well Construction Materials 1
2.3.1 Filter Pack 2
2.3.2 Annular Seal 2
3 Well Development 2
4 Survey 3
5 References 3

Tables

Table 1. Well Completion Details

Figures

Figure 1. Site Map and Compliance Monitoring Well Network
Figure 2. Well Location Map – Pilot Study Area

Appendices

A Boring Logs and Well Construction Details
B Well Driller Performance Bond
C Well Development Logs
D Survey Report

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.



09-27-2024

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng), Vice President

Date

1 Introduction

This report documents the installation of two piezometers at Georgia Power Company (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1). One injection well (INW-01) and one dose response well (DR-03), screened at similar depth and lithology to detection well MCM-06 and in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan [GWMP] (Resolute 2021) were installed. Exceptions to the design presented in the GWMP are associated with the purpose of the wells (injection and dose response monitoring) in support of an approved Injection Pilot Study Workplan (Arcadis 2024, GEOS ID 836675).

2 Drilling and Well Installation

The piezometer locations are shown in **Figure 1**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

2.1 Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix B**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Terra Sonic 150CC Compact Crawler sonic rig was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Injection well INW-01 is constructed with 15 feet of 4-inch diameter well screen placed at an interval of 15.95 feet to 30.95 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.1-foot sump/sediment trap.

Dose response well DR-03 is constructed with 15 feet of 2-inch diameter well screen placed at an interval of 15.90 feet to 30.90 feet bgs with a flush-threaded PVC end cap placed on the bottom 0.6-foot sump/sediment trap.

The screen intervals are provided along with the construction details in **Table 1**.

2.3 Well Construction Materials

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling and injection in the case of INW-01; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The dose response well was constructed of 2-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. The injection well was constructed of 4-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. Factory machine slotted 0.010-inch

screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing at INW-01, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to a minimum of 2 feet above the top of the screen. Approximately 4.5 cubic feet of filter sand were used for INW-01.

Following placement of the well screen and casing at DR-03, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to approximately 3 feet above the top of the screen. Approximately 2.5 cubic feet of bags of filter sand were used for DR-03.

After placing the filter pack and prior to installing the annular seal, each well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix A**.

2.3.2 Annular Seal and Well Completion

For INW-01, an annular seal composed of approximately 12 feet of neat cement grout (approximately 9 cubic feet) was placed on top of 2 feet of Standard Sand & Silica Co. fine sand (30/65 filter sand) and tremie-grouted to surface. Approximately 0.5 cubic feet of 30/65 filter sand was used as an annular seal for INW-01. The monitoring well surface completion consists of a 12-inch bolt down manhole and a four-foot by four-foot by six-inch concrete pad.

For DR-03, an annular seal composed of 3/8-inch Baroid Holeplug® non-coated, bentonite chips was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite chips were placed from the top of the 20/30 sand to a thickness of approximately 2 feet in order to prevent grout contamination into the water-bearing zone. Approximately 0.5 cubic feet of bentonite chips were used. Following hydration of the bentonite, the remaining annular space was filled to approximately 4.9 feet bgs with Sand & Silica Co. fine sand (30/65 filter sand) to top of the water table (approximately 1 cubic foot) and tremie-grouted to surface with approximately 0.5 cubic feet of cement bentonite grout. The monitoring well surface completion consists of a 6-inch diameter bolt down manhole and a two-foot by two-foot by six-inch concrete pad.

3 Well Development

Injection well INW-01 was developed on June 4, 2024, using a 12-volt Proactive submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the Proactive submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 1.43 nephelometric turbidity units (NTU).

Dose response well DR-03 was developed on June 3, 2024, using a Geotech Reclaimer submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH,

temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 9.19 nephelometric turbidity units (NTU).

The well development forms are included in **Appendix C**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Shupe Surveying Company, P.C. on June 27, 2024 using a Carlson BRX-7 Global Positioning System (GPS) and Geomax Model Zone 20-HV Laser Level. A re-survey was performed on August 28, 2024 to achieve the requisite vertical accuracy. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83), US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5-foot. Vertical elevations are referenced to North American Vertical Datum of 1988 (NAVD1988), US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix D**.

5 References

Arcadis. 2024. MCM-06 Pilot Study Work Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

Resolute. 2021. Groundwater Monitoring Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Tables

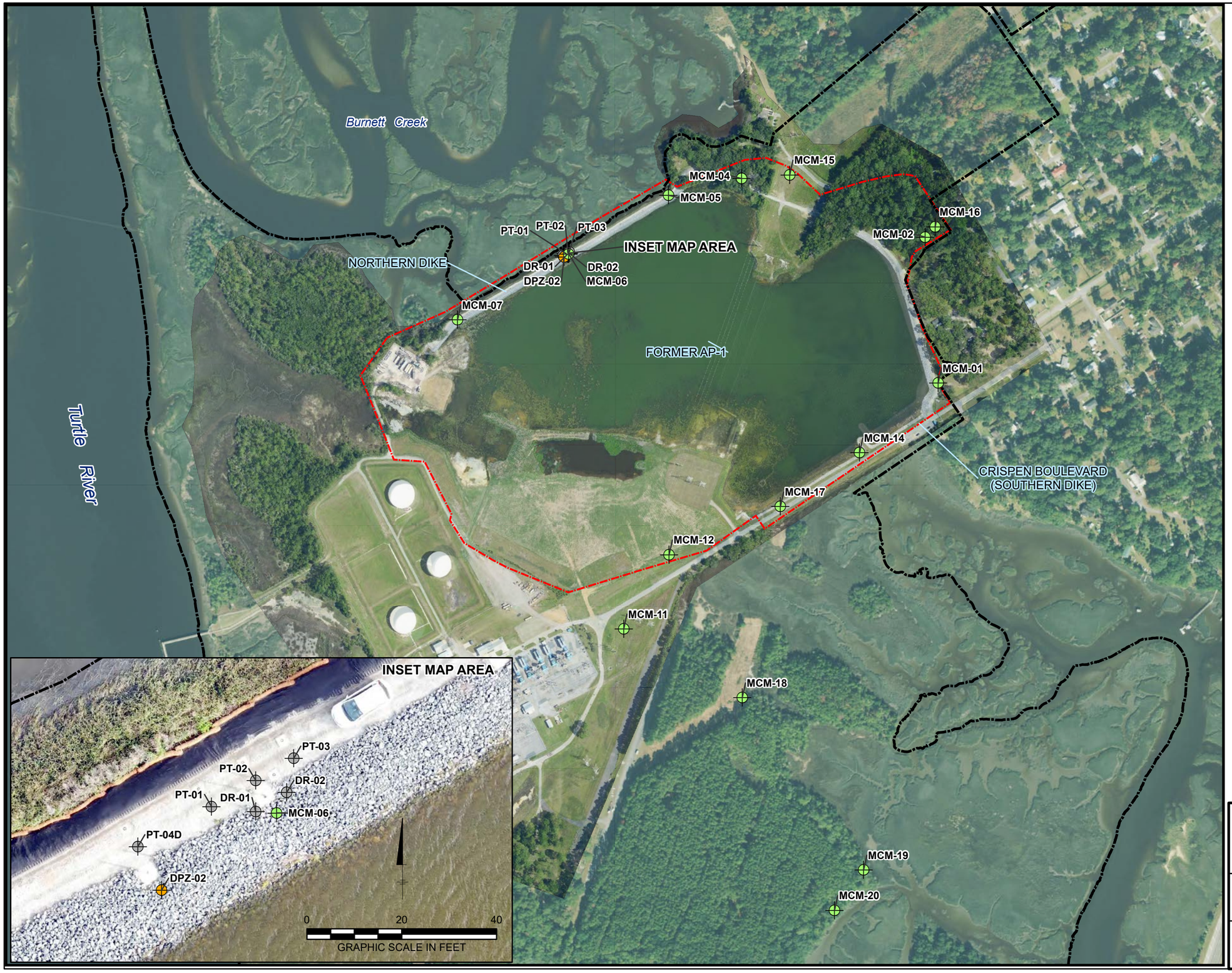
Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Depth of Well (feet bTOC)	Screened Interval (feet bgs)	
								Top	Bottom
INW-01	6/1/2024	444,418.01	850,792.41	7.50	7.18	31.05	30.73	15.95	30.95
DR-03	6/1/2024	444,422.02	850,792.49	7.65	7.40	31.50	31.25	15.90	30.90

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)
3 - Total Depth includes well sump (0.1 ft for INW-01 and 0.6 ft for DR-03)

Acronyms & Abbreviations:
bgs - below ground surface
bTOC - below top of casing
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures



LEGEND

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND MONITORING WELL NETWORK

ARCADIS

FIGURE
1



LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

**WELL LOCATION MAP -
PILOT STUDY AREA**

ARCADIS

FIGURE
2

Appendix A

Boring Logs and Well Construction Details

RECORD OF BOREHOLE INW-01

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/30/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444418.01
EASTING: 850792.41
GS ELEVATION: 7.50
TOC ELEVATION: 7.18

DEPTH W.L.: 5.94
ELEVATION W.L.: 1.24
DATE W.L.:
TIME W.L.:

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	INW-01 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 1.0 Gravel	FILL		0.0					SURFACE COMPLETION Protection: 12" Cast Iron Pad: 4'x4' Concrete Lock: Yes WELL CASING Interval: 0'-15.95' Material: Schedule 40 PVC Diameter: 4" Joint Type: Threaded
	1.0 - 10.8 (SP) SAND; 7.5YR 7/6; loose; fine grained; well sorted; subangular; moist; FILL.	SP		1.0	1		7.5 10.0	ANNULUS SEAL Interval: 0.5'-12' Type: Quickrete Portland Type I/II Neat Cement Grout Quantity: 9.0 cf	
5	Grading to 10YR 8/4.								
10	10.8 - 14.6 (CLS) Sandy CLAY; 7.5 YR 4/1; soft; medium to high plasticity; wet.	CLS		10.8	2		9.0 10.0	FILTER PACK SEAL Interval: 12'-14' Type: 30/65 Standard Sand and Silica Quantity: 0.5 cf	
15	14.6 - 16.8 (SP) SAND; 7.5YR 5/1; loose; fine grained; poorly sorted; subangular; wet; odor.	SP		14.6					WELL SCREEN Interval: 15.95'-30.95' Material: Schedule 40 PVC Diameter: 4" Slot Size: 0.010"
20	Grading to 7.5YR 5/2.				3		8.5 10.0	FILTER PACK Interval: 14'-33' Type: 20/30 Standard Sand and Silica Quantity: 4.5 cf	
25									
30	grading some shell fragments; GLEY1 5/N				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

RECORD OF BOREHOLE DR-03

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/31/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444422.02
EASTING: 850792.49
GS ELEVATION: 7.65
TOC ELEVATION: 7.40

DEPTH W.L.: 6.67
ELEVATION W.L.: 0.75
DATE W.L.: 6/3/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	DR-03 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 0.8 Gravel	FILL		0.0				ANNULUS SEAL Interval: 0.5'-4.9' Type: Quickrete Portland Type I/II Cement Bentonite Grout Quantity: 0.5 cf	SURFACE COMPLETION Protection: 6" Cast Iron Pad: 2'x2' Concrete Lock: Yes
	0.8 - 11.5 (SP) SAND; 7.5YR 7/4; loose; well sorted; fine grained; subangular; moist; FILL.			0.8					WELL CASING Interval: 0'-15.90' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	Grading to 7.5YR 7/2.				1		8.5 10.0		
	Grading to 7.5YR 7/3.	SP						FILTER PACK SEAL Interval: 4.9'-11.1' Type: 30/65 Standard Sand and Silica Quantity: 1.0 cf	
	Grading to 10YR 6/1.								
10								FILTER PACK SEAL Interval: 11.1'-13.1' Type: 3/8" Hole Plug Bentonite Chips Quantity: 0.5 cf	
	11.5 - 13.0 (CL) CLAY; GLEY1 5/N; soft; high plasticity; moist.	CL		11.5					
	13.0 - 13.5 (CLS) Sandy CLAY; GLEY1 5/N; soft; high plasticity; moist.	CLS		13.0					
	13.5 - 33.0 (SP) SAND; GLEY1 5/10Y; well sorted; fine grained; subangular to subrounded; wey.			13.5					WELL SCREEN Interval: 15.90'-30.90' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010"
15					2		10.0 10.0		
20	Grading to very fine grained; very wet; GLEY2 5/10BG.								
		SP						FILTER PACK Interval: 13.1'-32' Type: 20/30 Standard Sand and Silica Quantity: 2.5 cf	
25	Grading fine grained; subrounded; less wet.				3		9.0 10.0		
30	grading some shell fragments GLEY1 5/N.				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

Appendix B

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

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

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

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

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

Description of bond Performance Bond for Water Well Contractors

Premium:

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

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

Appendix C

Well Development Logs

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/3/24

Calibrated By: Jay Siewert

Field Conditions: 86°/68°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1502	**Time Finish**	1523		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.22	36.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4313.1	34.29	± 10% of standard	EPA 2023
pH (SU)	4.00	3.81	34.38	± 0.1	GWMP
pH (SU)	7.00	6.74	32.59	± 0.1	GWMP
pH (SU)	10.00	9.70	31.78	± 0.1	GWMP
ORP (mV)	228.0	216.0	31.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.38		

Calibration Check					
Time Start	1842	**Time Finish**	1850		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4805.9	31.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	30.79	± 0.1	GWMP
pH (SU)	7.00	~~7.23~~ 7.35	30.32	± 0.1	GWMP
pH (SU)	10.00	10.23	29.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.58		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/4/24

Calibrated By: Jay Stewart

Field Conditions: 86° / 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	832	**Time Finish**	845		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	25.73	± 10%	NA
Specific Conductance (µS/cm)	4,490	4568.6	25.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	25.58	± 0.1	GWMP
pH (SU)	7.00	7.05	25.21	± 0.1	GWMP
pH (SU)	10.00	10.13	25.58	± 0.1	GWMP
ORP (mV)	228.0	236.3	25.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.63		

Calibration Check					
Time Start	1535	**Time Finish**	1541		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4592.3	31.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	31.36	± 0.1	GWMP
pH (SU)	7.00	~~8.90~~ 7.28	32.07	± 0.1	GWMP
pH (SU)	10.00	10.07	31.15	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.28		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/4/2024 2:14:19 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.77 ft** **Total Depth: 30.77 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: 12V Proactive** **Tubing Type: LDPE** **Pump Intake From TOC: 23.27 ft** **Estimated Total Volume Pumped: 480000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 4.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 5 hours and 1,968 L prior to trolling. Gray/black purge water on initial pumping. 6.25ft of drawdown observed at 2.5GPM. Hydraulic surging performed across full length of the screen. Pumping performed at each foot of screen length for approximatley 10 minutes and an average of 20gals. 5.41ft of drawdown observed before termination of pumping at 2.5 GPM. Final Depth: 30.78ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/4/2024 2:14 PM	00:00	7.44 pH	24.67 °C	7,993.4 µS/cm	0.00 mg/L	1.03 NTU	-104.7 mV	10.45 ft	4.49 PSU	8,000.0 ml/min
6/4/2024 2:19 PM	05:00	7.49 pH	22.43 °C	8,199.3 µS/cm	0.01 mg/L	1.23 NTU	-258.0 mV	10.10 ft	4.61 PSU	8,000.0 ml/min
6/4/2024 2:24 PM	10:00	7.47 pH	22.42 °C	8,249.2 µS/cm	0.00 mg/L	0.97 NTU	-157.9 mV	10.74 ft	4.64 PSU	8,000.0 ml/min
6/4/2024 2:29 PM	15:00	7.47 pH	22.39 °C	8,314.6 µS/cm	0.00 mg/L	0.56 NTU	-166.9 mV	10.80 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:34 PM	20:00	7.46 pH	22.37 °C	8,235.2 µS/cm	0.00 mg/L	0.52 NTU	-176.6 mV	10.80 ft	4.63 PSU	8,000.0 ml/min
6/4/2024 2:39 PM	25:00	7.46 pH	22.37 °C	8,321.6 µS/cm	0.00 mg/L	0.56 NTU	-186.2 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:44 PM	30:00	7.46 pH	22.30 °C	8,333.3 µS/cm	0.00 mg/L	0.36 NTU	-194.7 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:49 PM	35:00	7.46 pH	22.29 °C	8,308.4 µS/cm	0.00 mg/L	0.36 NTU	-201.5 mV	10.79 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:54 PM	40:00	7.45 pH	22.35 °C	8,297.7 µS/cm	0.00 mg/L	0.33 NTU	-208.1 mV	10.80 ft	4.67 PSU	8,000.0 ml/min
6/4/2024 2:59 PM	45:00	7.44 pH	22.34 °C	8,278.6 µS/cm	0.00 mg/L	0.31 NTU	-215.4 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:04 PM	50:00	7.44 pH	22.36 °C	8,264.5 µS/cm	0.00 mg/L	0.26 NTU	-222.4 mV	10.80 ft	4.65 PSU	8,000.0 ml/min
6/4/2024 3:09 PM	55:00	7.44 pH	22.36 °C	8,280.2 µS/cm	0.00 mg/L	0.24 NTU	-228.0 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:14 PM	01:00:00	7.44 pH	22.35 °C	8,269.2 µS/cm	0.00 mg/L	1.43 NTU	-234.9 mV	10.80 ft	4.65 PSU	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/3/2024 4:25:45 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.22 ft** **Total Depth: 31.22 ft** **Initial Depth to Water: 6.67 ft**	**Pump Type: GeoTech Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 23.72 ft** **Estimated Total Volume Pumped: 170000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: -1.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 6+ hours and 2,365L prior to trolling. Gray purge water on initial pumping. 0.83ft of drawdown observed at 3GPM. Water cleared fast. Hydraulic surging performed across full length of the screen 2x with pumping being performed at each foot of screen length.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/3/2024 4:25 PM	00:00	7.51 pH	23.33 °C	6,902.5 µS/cm	0.30 mg/L	45.90 NTU	-65.5 mV	6.20 ft	3.84 PSU	1,400.0 ml/min
6/3/2024 4:30 PM	05:00	7.63 pH	22.96 °C	7,124.7 µS/cm	0.47 mg/L	35.20 NTU	-82.1 mV	6.03 ft	3.97 PSU	1,400.0 ml/min
6/3/2024 4:35 PM	10:00	7.71 pH	22.92 °C	7,298.9 µS/cm	1.49 mg/L	33.20 NTU	-75.4 mV	6.29 ft	4.07 PSU	1,400.0 ml/min
6/3/2024 4:40 PM	15:00	7.70 pH	22.81 °C	7,420.3 µS/cm	0.51 mg/L	23.20 NTU	-75.5 mV	6.02 ft	4.15 PSU	1,400.0 ml/min
6/3/2024 4:45 PM	20:00	7.68 pH	22.79 °C	7,547.7 µS/cm	0.32 mg/L	16.20 NTU	-86.9 mV	6.12 ft	4.22 PSU	1,400.0 ml/min
6/3/2024 4:50 PM	25:00	7.68 pH	22.79 °C	7,689.5 µS/cm	0.44 mg/L	15.40 NTU	-90.6 mV	6.08 ft	4.31 PSU	1,400.0 ml/min
6/3/2024 4:55 PM	30:00	7.67 pH	22.71 °C	7,739.5 µS/cm	0.29 mg/L	17.30 NTU	-93.8 mV	5.99 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:00 PM	35:00	7.66 pH	22.79 °C	7,748.0 µS/cm	0.28 mg/L	11.30 NTU	-97.4 mV	5.95 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:05 PM	40:00	7.66 pH	22.78 °C	7,742.5 µS/cm	0.31 mg/L	13.60 NTU	-99.9 mV	6.01 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:10 PM	45:00	7.65 pH	22.79 °C	7,736.3 µS/cm	0.27 mg/L	17.60 NTU	-105.0 mV	5.96 ft	4.33 PSU	1,400.0 ml/min
6/3/2024 5:15 PM	50:00	7.65 pH	22.79 °C	7,777.5 µS/cm	0.29 mg/L	11.70 NTU	-107.1 mV	5.92 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:20 PM	55:00	7.65 pH	22.72 °C	7,764.8 µS/cm	0.29 mg/L	17.80 NTU	-111.3 mV	5.90 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:25 PM	01:00:00	7.64 pH	22.76 °C	7,760.3 µS/cm	0.23 mg/L	16.50 NTU	-116.2 mV	5.78 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:30 PM	01:05:00	7.64 pH	22.79 °C	7,777.2 µS/cm	0.28 mg/L	13.50 NTU	-119.9 mV	5.65 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:35 PM	01:10:00	7.63 pH	22.75 °C	7,810.3 µS/cm	0.34 mg/L	14.10 NTU	-128.8 mV	5.72 ft	4.38 PSU	1,400.0 ml/min

6/3/2024 5:40 PM	01:15:00	7.63 pH	22.79 °C	7,797.3 µS/cm	0.37 mg/L	11.90 NTU	-136.2 mV	5.55 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 5:45 PM	01:20:00	7.63 pH	22.75 °C	7,808.1 µS/cm	0.35 mg/L	11.40 NTU	-149.0 mV	5.48 ft	4.38 PSU	1,400.0 ml/min
6/3/2024 5:50 PM	01:25:00	7.63 pH	22.74 °C	7,774.4 µS/cm	0.38 mg/L	12.20 NTU	-161.3 mV	5.39 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:55 PM	01:30:00	7.61 pH	22.83 °C	7,829.8 µS/cm	0.26 mg/L	10.22 NTU	-171.3 mV	5.25 ft	4.39 PSU	1,400.0 ml/min
6/3/2024 6:00 PM	01:35:00	7.64 pH	22.83 °C	7,808.5 µS/cm	0.51 mg/L	12.46 NTU	-173.2 mV	5.21 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:05 PM	01:40:00	7.60 pH	22.88 °C	7,807.1 µS/cm	0.27 mg/L	10.86 NTU	-186.6 mV	5.15 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:10 PM	01:45:00	7.62 pH	22.83 °C	7,803.2 µS/cm	0.43 mg/L	10.81 NTU	-192.0 mV	5.06 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:15 PM	01:50:00	7.59 pH	23.00 °C	7,841.5 µS/cm	0.19 mg/L	10.33 NTU	-201.3 mV	4.92 ft	4.40 PSU	1,400.0 ml/min
6/3/2024 6:20 PM	01:55:00	7.59 pH	23.03 °C	7,789.8 µS/cm	0.17 mg/L	8.53 NTU	-208.4 mV	4.86 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:25 PM	02:00:00	7.59 pH	22.97 °C	7,778.1 µS/cm	0.23 mg/L	9.19 NTU	-210.1 mV	4.81 ft	4.36 PSU	1,400.0 ml/min

Samples

Sample ID:	Description:

Appendix D

Survey Report

Shupe Surveying Company, P.C.

3837 Darien Hwy
Brunswick, GA 31525
912-265-0562

PLANT MCMANUS WELL SURVEY 9/05/2024

WELL #	NORTHING	EASTING	CASING ELEVATION	GROUND ELEVATION
INW-01	444418.01	850792.41	7.18	(NAIL) 7.50
DR-03	444422.02	850792.49	7.40	(NAIL) 7.65

HORIZONTAL DATUM: GA COORD SYSTEM, EAST ZONE NAD-83

VERTICAL DATUM: NAVD-88

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION FOR THE PVC WELL CASINGS.

DATE OF FIELD SURVEY & INSPECTION: 06/27/2024 AND 08/28/24. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL AND VERTICAL LOCATION: CARLSON BRX-7 GPS RECEIVER WITH A VRS NETWORK, CARLSON RT4 DATA COLLECTOR AND A GEOMAX MODEL ZONE 20-HV LASER LEVEL.



Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

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)
MCM-01	YES	YES	NO	YES
MCM-02	YES	YES	NO	YES
MCM-04	YES	YES	NO	YES
MCM-05	YES	YES	NO	YES
MCM-06	YES	YES	NO	YES
MCM-07	YES	YES	NO	YES
MCM-11	YES	YES	NO	YES
MCM-12	YES	YES	NO	YES
MCM-14	YES	YES	NO	YES
MCM-15	YES	YES	NO	YES
MCM-16	YES	YES	NO	YES
MCM-17	YES	YES	NO	YES
MCM-18	YES	YES	NO	YES
MCM-19	YES	YES	NO	YES
MCM-20	YES	YES	NO	YES
DPZ-02	YES	YES	NO	YES
MW-01R	YES	YES	NO	YES
MW-02	YES	YES	NO	YES
MW-03	YES	YES	NO	YES
MW-04	YES	YES	NO	YES
MW-05	YES	YES	NO	YES
MW-06R	YES	YES	NO	YES
MW-07	YES	YES	NO	YES
MW-09	YES	YES	NO	YES
MW-10	YES	YES	NO	YES
MW-11	YES	YES	NO	YES
MW-12	YES	YES	NO	YES
MCM-03	YES	YES	NO	YES
MCM-08	YES	YES	NO	YES
MCM-10	YES	YES	NO	YES
MCM-13	YES	YES	NO	YES
PZ-09	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1 Date: 9/10/24

Permit Number: 063-030D (CCR) Field Conditions: 84/70, 0% Rain

	Location/Identification			
Well ID:	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)
DPZ-01	YES	YES	NO	YES
DPZ-03	YES	YES	NO	YES
DPZ-04	YES	YES	NO	YES
DPZ-05	YES	YES	NO	YES
DPZ-06	YES	YES	NO	YES
RW-1	YES	YES	NO	YES
RW-2	YES	YES	NO	YES
RW-3	YES	YES	NO	YES
RW-4	YES	YES	NO	YES
RW-5	YES	YES	NO	YES
RW-6	YES	YES	NO	YES
RW-7	YES	YES	NO	YES
RW-8	YES	YES	NO	YES
RW-9	YES	YES	NO	YES
RW-10	YES	YES	NO	YES
DR-01	YES	YES	NO	YES
DR-02	YES	YES	NO	YES
PT-01	YES	YES	NO	YES
PT-02	YES	YES	NO	YES
PT-03	YES	YES	NO	YES
PT-04D	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

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
MCM-01	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES
MW-02	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES
MW-05	YES	YES	NO	YES	YES
MW-06R	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

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
DPZ-01	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	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
MCM-01	YES	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES	YES
MW-02	NO	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES	YES
MW-05	YES	YES	YES	YES	YES	YES
MW-06R	YES	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	NO	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1 Date: 9/10/24

Permit Number: 063-030D (CCR) Field Conditions: 84/70, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	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
DPZ-01	YES	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

Well ID:	Corrective actions as needed, by date:
MCM-01	
MCM-02	
MCM-04	
MCM-05	
MCM-06	
MCM-07	
MCM-11	
MCM-12	
MCM-14	
MCM-15	
MCM-16	
MCM-17	
MCM-18	
MCM-19	
MCM-20	
DPZ-02	
MW-01R	
MW-02	Corner of surface pad is broken off, condition will be monitored and repaired if needed
MW-03	
MW-04	
MW-05	Weep hole will be drilled during next sampling event
MW-06R	
MW-07	
MW-09	
MW-10	
MW-11	
MW-12	
MCM-03	
MCM-08	
MCM-10	
MCM-13	
PZ-09	
PZ-10	
PZ-11	
PZ-12	Surface pad has a hairline fracture, condition will be monitored and repaired if needed

Well Inspection

Site Name: Plant McManus Former AP-1 Date: 9/10/24

Permit Number: 063-030D (CCR) Field Conditions: 84/70, 0% Rain

Well ID:	Corrective actions as needed, by date:
DPZ-01	
DPZ-03	
DPZ-04	
DPZ-05	
DPZ-06	
RW-1	
RW-2	
RW-3	
RW-4	
RW-5	
RW-6	
RW-7	
RW-8	
RW-9	
RW-10	
DR-01	
DR-02	
PT-01	
PT-02	
PT-03	
PT-04D	

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

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)
MCM-01	YES	YES	NO	YES
MCM-02	YES	YES	NO	YES
MCM-04	YES	YES	NO	YES
MCM-05	YES	YES	NO	YES
MCM-06	YES	YES	NO	YES
MCM-07	YES	YES	NO	YES
MCM-11	YES	YES	NO	YES
MCM-12	YES	YES	NO	YES
MCM-14	YES	YES	NO	YES
MCM-15	YES	YES	NO	YES
MCM-16	YES	YES	NO	YES
MCM-17	YES	YES	NO	YES
MCM-18	YES	YES	NO	YES
MCM-19	YES	YES	NO	YES
MCM-20	YES	YES	NO	YES
DPZ-02	YES	YES	NO	YES
MW-01R	YES	YES	NO	YES
MW-02	YES	YES	NO	YES
MW-03	YES	YES	NO	YES
MW-04	YES	YES	NO	YES
MW-05	YES	YES	NO	YES
MW-06R	YES	YES	NO	YES
MW-07	YES	YES	NO	YES
MW-09	YES	YES	NO	YES
MW-10	YES	YES	NO	YES
MW-11	YES	YES	NO	YES
MW-12	YES	YES	NO	YES
MCM-03	YES	YES	NO	YES
MCM-08	YES	YES	NO	YES
MCM-10	YES	YES	NO	YES
MCM-13	YES	YES	NO	YES
PZ-09	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)	Location/Identification			Field Conditions: 70/45, 0% Rain
Well ID:	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)
DPZ-01	YES	YES	NO	YES
DPZ-03	YES	YES	NO	YES
DPZ-04	YES	YES	NO	YES
DPZ-05	YES	YES	NO	YES
DPZ-06	YES	YES	NO	YES
RW-1	YES	YES	NO	YES
RW-2	YES	YES	NO	YES
RW-3	YES	YES	NO	YES
RW-4	YES	YES	NO	YES
RW-5	YES	YES	NO	YES
RW-6	YES	YES	NO	YES
RW-7	YES	YES	NO	YES
RW-8	YES	YES	NO	YES
RW-9	YES	YES	NO	YES
RW-10	YES	YES	NO	YES
DR-01	YES	YES	NO	YES
DR-02	YES	YES	NO	YES
PT-01	YES	YES	NO	YES
PT-02	YES	YES	NO	YES
PT-03	YES	YES	NO	YES
PT-04D	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

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
MCM-01	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES
MW-02	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES
MW-05	YES	YES	NO	YES	YES
MW-06R	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Protective Casing

Field Conditions: 70/45, 0% Rain

Well ID:	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
DPZ-01	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	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
MCM-01	YES	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES	YES
MW-02	NO	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES	YES
MW-05	YES	YES	YES	YES	YES	YES
MW-06R	YES	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	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
DPZ-01	YES	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

Well ID:	Corrective actions as needed, by date:
MCM-01	
MCM-02	
MCM-04	
MCM-05	
MCM-06	
MCM-07	
MCM-11	
MCM-12	
MCM-14	
MCM-15	
MCM-16	
MCM-17	
MCM-18	
MCM-19	
MCM-20	
DPZ-02	
MW-01R	
MW-02	Corner of surface pad is broken off, condition will be monitored and repaired if needed
MW-03	
MW-04	
MW-05	Weep hole will be drilled during next sampling event
MW-06R	
MW-07	
MW-09	
MW-10	
MW-11	
MW-12	
MCM-03	
MCM-08	
MCM-10	
MCM-13	
PZ-09	
PZ-10	
PZ-11	
PZ-12	

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/18/2025

Permit Number: 063-030D (CCR)

Field Conditions: 70/45, 0% Rain

Well ID:	Corrective actions as needed, by date:
DPZ-01	
DPZ-03	
DPZ-04	
DPZ-05	
DPZ-06	
RW-1	
RW-2	
RW-3	
RW-4	
RW-5	
RW-6	
RW-7	
RW-8	
RW-9	
RW-10	
DR-01	
DR-02	
PT-01	
PT-02	
PT-03	
PT-04D	

MEMORANDUM

Date: July 2025

To: Kristen Jurinko – Georgia Power

CC: Ben Hodges

From: EnSafe

Subject: Plant McManus Ash Pond - Well Maintenance and Repair Documentation
Georgia Power Company

EnSafe has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MCMANUS during the semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Plant McManus Former AP-1	3/27/25	PZ-12	Filled fracture in pad with concrete filler

All maintenance and repairs are also documented in the 2025 Annual Groundwater Monitoring and Corrective Action report.

APPENDIX B

GROUNDWATER LABORATORY ANALYTICAL, DATA VALIDATION AND FIELD SAMPLING REPORTS

ENSAFE
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GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685518

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 685518 in the left-hand footer of the data report. Revision 01 updates the Project ID to match the Chain of Custody.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Radium 226/228 requested on the chain of custody were reported under GEL 685521. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685518001	MCM-MCM-01	Ground Water	09/11/24 10:15	09/12/24 14:30
685518002	MCM-MCM-02	Ground Water	09/11/24 15:14	09/12/24 14:30
685518003	MCM-MCM-05	Ground Water	09/11/24 12:14	09/12/24 14:30
685518004	MCM-MCM-07	Ground Water	09/11/24 10:21	09/12/24 14:30
685518005	MCM-MCM-14	Ground Water	09/11/24 15:41	09/12/24 14:30
685518006	MCM-MCM-15	Ground Water	09/11/24 15:35	09/12/24 14:30
685518007	MCM-MCM-16	Ground Water	09/11/24 11:58	09/12/24 14:30
685518008	MCM-MCM-18	Ground Water	09/11/24 09:51	09/12/24 14:30
685518009	MCM-MCM-19	Ground Water	09/11/24 11:20	09/12/24 14:30
685518010	MCM-MCM-20	Ground Water	09/11/24 15:13	09/12/24 14:30
685518011	MCM-DPZ-02	Ground Water	09/11/24 10:24	09/12/24 14:30
685518012	MCM-AP1-FD-02	Water	09/11/24 12:00	09/12/24 14:30
685518013	MCM-AP1-FB-02	Water	09/11/24 12:05	09/12/24 14:30
685518014	MCM-AP1-EB-02	Water	09/11/24 12:14	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

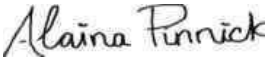
Method	Run Date ID
SW846 3005A	13-SEP-2024
SW846 7470A Prep	13-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	18-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 3005A/6020B	26-SEP-2024
SW846 7470A	16-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685518 GEL Work Order: 685518

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-01	Project:	GPCC00624
Sample ID:	685518001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 10:15		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.34	0.0670	0.200	mg/L		1	CH6	09/13/24	2236	2672160	1
Fluoride	J	0.0669	0.0330	0.100	mg/L		1					
Sulfate		42.1	0.532	1.60	mg/L		4	CH6	09/14/24	1610	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1303	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0637	2671577	4
Arsenic		0.00586	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0868	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000200	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0753	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.60	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-01	Project:	GPCC00624
Sample ID:	685518001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-02	Project:	GPCC00624
Sample ID:	685518002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 15:14		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	09/14/24	0008	2672160	1
Chloride		16.4	0.134	0.400	mg/L		2	CH6	09/14/24	1641	2672160	2
Sulfate		26.2	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1305	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0717	2671577	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0585	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0875	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.36	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		64.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-02	Project:	GPCC00624
Sample ID:	685518002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-05	Project:	GPCC00624
Sample ID:	685518003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 12:14		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.654	0.132	0.400	mg/L		4	CH6	09/14/24	1915	2672160	1
Chloride		1800	13.4	40.0	mg/L		200	CH6	09/14/24	0141	2672160	2
Sulfate		148	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1306	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.463	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2010	2671577	4
Calcium		78.5	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0721	2671577	5
Arsenic		0.0249	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0290	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3020	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-05	Project:	GPCC00624
Sample ID:	685518003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-07	Project:	GPCC00624
Sample ID:	685518004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 10:21		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2440	33.5	100	mg/L		500	CH6	09/14/24	2017	2672160	1
Fluoride		0.692	0.132	0.400	mg/L		4	CH6	09/14/24	1946	2672160	2
Sulfate		296	26.6	80.0	mg/L		200	CH6	09/14/24	0212	2672160	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1308	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0725	2671577	5
Arsenic		0.00833	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0454	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0147	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000949	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.888	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2014	2671577	6
Calcium		72.5	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-07	Project:	GPCC00624
Sample ID:	685518004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-14
Sample ID: 685518005
Matrix: WG
Collect Date: 11-SEP-24 15:41
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.164	0.0660	0.200	mg/L		2	CH6	09/14/24	2048	2672160	1
Chloride		1320	13.4	40.0	mg/L		200	CH6	09/14/24	0243	2672160	2
Sulfate		180	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1310	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0733	2671577	4
Arsenic	J	0.00215	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0279	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		41.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0204	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.415	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2017	2671577	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2480	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-14	Project:	GPCC00624
Sample ID:	685518005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-15	Project:	GPCC00624
Sample ID:	685518006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 15:35		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.34	0.0670	0.200	mg/L		1	CH6	09/14/24	0314	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		5.75	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1311	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0935	2671577	3
Boron		0.0350	0.00520	0.0150	mg/L	1.00	1					
Calcium		0.928	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0736	2671577	4
Arsenic		0.00538	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		28.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-15	Project:	GPCC00624
Sample ID:	685518006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-16	Project:	GPCC00624
Sample ID:	685518007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 11:58		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	09/14/24	0345	2672160	1
Chloride		9.65	0.134	0.400	mg/L		2	CH6	09/14/24	2118	2672160	2
Sulfate		23.2	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1313	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0758	2671577	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0651	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0517	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.49	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-16	Project:	GPCC00624
Sample ID:	685518007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-18
Sample ID: 685518008
Matrix: WG
Collect Date: 11-SEP-24 09:51
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		856	13.4	40.0	mg/L		200	CH6	09/14/24	0415	2672160	1
Sulfate		149	26.6	80.0	mg/L		200					
Fluoride		0.267	0.0330	0.100	mg/L		1	CH6	09/14/24	2149	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1314	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0802	2671577	4
Arsenic	J	0.00210	0.00200	0.00500	mg/L	1.00	1					
Barium		0.123	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00225	0.000200	0.000500	mg/L	1.00	1					
Boron		0.172	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00440	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1530	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-18	Project:	GPCC00624
Sample ID:	685518008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-19
Sample ID: 685518009
Matrix: WG
Collect Date: 11-SEP-24 11:20
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4880	67.0	200	mg/L		1000	CH6	09/14/24	0446	2672160	1
Sulfate		781	133	400	mg/L		1000					
Fluoride	J	0.743	0.330	1.00	mg/L		10	CH6	09/14/24	2220	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1320	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.610	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2054	2671577	4
Calcium		127	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0806	2671577	5
Arsenic		0.0134	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0837	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0157	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00601	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0200	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0469	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9180	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-19	Project:	GPCC00624
Sample ID:	685518009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-20
Sample ID: 685518010
Matrix: WG
Collect Date: 11-SEP-24 15:13
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		2.83	0.330	1.00	mg/L		10	CH6	09/14/24	2251	2672160	1
Chloride		4420	67.0	200	mg/L		1000	CH6	09/14/24	0619	2672160	2
Sulfate		852	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1321	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.841	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2057	2671577	4
Calcium		87.8	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0809	2671577	5
Arsenic		0.0197	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0823	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0127	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00551	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0181	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0201	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0212	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8630	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-20	Project:	GPCC00624
Sample ID:	685518010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-DPZ-02
Sample ID: 685518011
Matrix: WG
Collect Date: 11-SEP-24 10:24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4570	67.0	200	mg/L		1000	CH6	09/14/24	0650	2672160	1
Sulfate		752	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	09/14/24	2322	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1323	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.52	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2123	2671577	4
Calcium		162	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0813	2671577	5
Arsenic		0.0121	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0398	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0667	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000217	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00176	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8970	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00624
Sample ID:	685518011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FD-02
Sample ID: 685518012
Matrix: WQ
Collect Date: 11-SEP-24 12:00
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4500	67.0	200	mg/L		1000	CH6	09/14/24	0721	2672160	1
Sulfate		751	133	400	mg/L		1000					
Fluoride	J	0.535	0.330	1.00	mg/L		10	CH6	09/14/24	2353	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1325	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.59	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2126	2671577	4
Calcium		165	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0817	2671577	5
Arsenic		0.0126	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0412	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0696	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00164	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8260	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00624
Sample ID:	685518012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FB-02
Sample ID: 685518013
Matrix: WQ
Collect Date: 11-SEP-24 12:05
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	09/14/24	0752	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1326	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0937	2671577	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	2115	2671577	4
Arsenic	J	0.00217	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00624
Sample ID:	685518013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-EB-02
Sample ID: 685518014
Matrix: WQ
Collect Date: 11-SEP-24 12:14
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	09/14/24	0822	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1328	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	2119	2671577	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0939	2671577	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00624
Sample ID:	685518014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853449 LCS										
Antimony	0.0500			0.0484	mg/L		96.7	(80%-120%)	PRB	09/26/24 06:26
Arsenic	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Barium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Beryllium	0.0500			0.0551	mg/L		110	(80%-120%)		
Boron	0.100			0.111	mg/L		111	(80%-120%)		
Cadmium	0.0500			0.0492	mg/L		98.3	(80%-120%)		
Calcium	2.00			2.08	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Cobalt	0.0500			0.0491	mg/L		98.1	(80%-120%)		
Lead	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0508	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Thallium	0.0500			0.0470	mg/L		94	(80%-120%)		

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853448 MB										
Antimony			U	ND	mg/L				PRB	09/26/24 06:23
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			J	0.000214	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671577											
QC1205853450 685518001 MS											
Antimony	0.0500	U	ND		0.0509	mg/L		101	(75%-125%)	PRB	09/26/24 06:41
Arsenic	0.0500		0.00586		0.0553	mg/L		98.9	(75%-125%)		
Barium	0.0500		0.0868		0.137	mg/L		99.5	(75%-125%)		
Beryllium	0.0500	J	0.000200		0.0565	mg/L		113	(75%-125%)		
Boron	0.100		0.0753		0.187	mg/L		111	(75%-125%)		
Cadmium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		
Calcium	2.00		9.60		11.7	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0485	mg/L		96.2	(75%-125%)		
Cobalt	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		
Lead	0.0500	U	ND		0.0495	mg/L		98.9	(75%-125%)		
Lithium	0.0500	U	ND		0.0540	mg/L		106	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Selenium	0.0500	U	ND		0.0491	mg/L		98.3	(75%-125%)		
Thallium	0.0500	U	ND		0.0473	mg/L		94.4	(75%-125%)		

QC Summary

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2671577												
QC1205853451 685518001 MSD												
Antimony	0.0500	U	ND		0.0513	mg/L	0.712	102	(0%-20%)	PRB	09/26/24	06:45
Arsenic	0.0500		0.00586		0.0548	mg/L	0.95	97.8	(0%-20%)			
Barium	0.0500		0.0868		0.138	mg/L	0.907	102	(0%-20%)			
Beryllium	0.0500	J	0.000200		0.0569	mg/L	0.623	113	(0%-20%)			
Boron	0.100		0.0753		0.188	mg/L	0.498	112	(0%-20%)			
Cadmium	0.0500	U	ND		0.0508	mg/L	0.146	101	(0%-20%)			
Calcium	2.00		9.60		12.0	mg/L	1.99	N/A	(0%-20%)			
Chromium	0.0500	U	ND		0.0499	mg/L	2.76	98.9	(0%-20%)			
Cobalt	0.0500	U	ND		0.0494	mg/L	0.437	98.6	(0%-20%)			
Lead	0.0500	U	ND		0.0510	mg/L	3.01	102	(0%-20%)			
Lithium	0.0500	U	ND		0.0553	mg/L	2.52	109	(0%-20%)			
Molybdenum	0.0500	U	ND		0.0527	mg/L	1.98	105	(0%-20%)			
Selenium	0.0500	U	ND		0.0492	mg/L	0.0387	98.3	(0%-20%)			
Thallium	0.0500	U	ND		0.0484	mg/L	2.23	96.6	(0%-20%)			

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853452 685518001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/26/24 06:52
Arsenic		5.86	U	ND	ug/L	N/A		(0%-20%)		
Barium		86.8		17.4	ug/L	.0403		(0%-20%)		
Beryllium	J	0.200	U	ND	ug/L	N/A		(0%-20%)		
Boron		75.3		15.6	ug/L	3.61		(0%-20%)		
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		9600		1940	ug/L	1.03		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **685518**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury														
Batch 2671700														
QC1205853724 LCS														
Mercury			0.00200				0.00202	mg/L		101	(80%-120%)	JP2	09/16/24	12:42
QC1205853723 MB														
Mercury						U	ND	mg/L					09/16/24	12:40
QC1205853725	685379001	MS												
Mercury			0.0200	U	ND		0.0203	mg/L		101	(75%-125%)		09/16/24	12:48
QC1205853726	685379001	MSD												
Mercury			0.0200	U	ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24	12:50
QC1205853727	685379001	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24	12:51
Solids Analysis														
Batch 2673726														
QC1205857772	685298009	DUP												
Total Dissolved Solids					242		239	mg/L	1.25		(0%-5%)	KLP1	09/18/24	12:15
QC1205857771 LCS														
Total Dissolved Solids			300				296	mg/L		98.7	(95%-105%)		09/18/24	12:15
QC1205857770 MB														
Total Dissolved Solids						U	ND	mg/L					09/18/24	12:15

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 685518

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671577

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671576

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205853448	Method Blank (MB)**ICP-MS**
1205853449	Laboratory Control Sample (LCS)
1205853452	685518001(MCM-MCM-01L) Serial Dilution (SD)
1205853450	685518001(MCM-MCM-01S) Matrix Spike (MS)
1205853451	685518001(MCM-MCM-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	685518						
	003	**004**	**005**	**009**	**010**	**011**	**012**
Boron	10X	10X	10X	10X	10X	10X	10X
Calcium	10X	10X	1X	10X	10X	10X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS), 685518001 (MCM-MCM-01), 685518002 (MCM-MCM-02), 685518004 (MCM-MCM-07) and 685518007 (MCM-MCM-16) were diluted because target analyte concentrations exceeded the calibration range. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted to minimize matrix effects on instrument performance. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518008 (MCM-MCM-18), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685518									
	001	**002**	**003**	**004**	**005**	**007**	**008**	**009**	**010**	**011**
Chloride	1X	2X	200X	500X	200X	2X	200X	1000X	1000X	1000X
Fluoride	1X	1X	4X	4X	2X	1X	1X	10X	10X	10X
Sulfate	4X	2X	200X	200X	200X	2X	200X	1000X	1000X	1000X

Analyte	685518
	012
Chloride	1000X
Fluoride	10X
Sulfate	1000X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2673726

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205857770	Method Blank (MB)
1205857771	Laboratory Control Sample (LCS)

1205857772 685298009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518008 (MCM-MCM-18), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

685518 685521

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: kajurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	NI			NI						<-- Preservative Type (6)
									Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228						
MCM-MCM-01	9/11/24	1015	G	N	WG			7	X	X	X	X	X						
MCM-MCM-02	9/11/24	1514	G	N	WG			7	X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05	9/11/24	1214	G	N	WG			3	X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07	9/11/24	1021	G	N	WG			7	X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12			G	N	WG				X	X	X	X	X						
MCM-MCM-14	9/11/24	1541	G	N	WG			7	X	X	X	X	X						
MCM-MCM-15	9/11/24	1535	G	N	WG			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	9/12/24	1430	[signature]	9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siefert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-16	9/11/24	1158	G	N	WG			7	X	X	X	X	X	
MCM-MCM-17			G	N	WG				X	X	X	X	X	
MCM-MCM-18	9/11/24	0951	G	N	WG			7	X	X	X	X	X	
MCM-MCM-19	9/11/24	1120	G	N	WG			7	X	X	X	X	X	
MCM-MCM-20	9/11/24	1513	G	N	WG			7	X	X	X	X	X	
MCM-DPZ-02	9/11/24	1024	G	N	WG			7	X	X	X	X	X	
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X	
MCM-AP1-FD-02	9/11/24	—	FD	N	WQ			7	X	X	X	X	X	
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X	
MCM-AP1-FB-02	9/11/24	1205	FB	N	WQ			7	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level I [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

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Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC

gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	
MCM-AP1-EB-02	9/11/24	1214	EB	N	WQ			7	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

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685517 685519
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHEM 5 - 24° RCHEM 7 - 20° RCHEM 2 - 1° 4 - 2° 6 - 23° RCHEM

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHEM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

September 25, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 3
Work Order: 685522

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685522001	MCM-MCM-04	Ground Water	09/10/24 13:36	09/12/24 14:30
685522002	MCM-MCM-11	Ground Water	09/10/24 13:28	09/12/24 14:30
685522003	MCM-MCM-12	Ground Water	09/10/24 13:26	09/12/24 14:30
685522004	MCM-MCM-17	Ground Water	09/10/24 12:58	09/12/24 14:30
685522005	MCM-AP1-FD-01	Water	09/10/24 12:00	09/12/24 14:30
685522006	MCM-AP1-FB-01	Water	09/10/24 15:59	09/12/24 14:30
685522007	MCM-AP1-EB-01	Water	09/10/24 16:07	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 7470A Prep	16-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-SEP-2024
EPA 300.0	18-SEP-2024
SM 2540C	17-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 7470A	17-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685522 GEL Work Order: 685522

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	685522001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:36		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0749	0.0330	0.100	mg/L		1	CWW	09/17/24	1558	2672211	1
Chloride		100	1.34	4.00	mg/L		20	CWW	09/18/24	0546	2672211	2
Sulfate		103	2.66	8.00	mg/L		20					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1320	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0119	2671581	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0630	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000321	0.000200	0.000500	mg/L	1.00	1					
Boron		0.131	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.06	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00238	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		316	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	685522001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	685522002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:28		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.2	0.134	0.400	mg/L		2	CWW	09/18/24	0722	2672211	1
Sulfate		24.3	0.266	0.800	mg/L		2					
Fluoride		0.202	0.0330	0.100	mg/L		1	CWW	09/17/24	1734	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1322	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0123	2671581	4
Arsenic		0.0163	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0301	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0483	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.36	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		79.0	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	685522002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	685522003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:26		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.67	0.0330	0.100	mg/L		1	CWW	09/18/24	0754	2672211	1
Sulfate		0.462	0.133	0.400	mg/L		1					
Chloride		297	3.35	10.0	mg/L		50	CWW	09/17/24	1806	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1323	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0127	2671581	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0633	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00137	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.67	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00672	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000453	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00967	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000276	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0214	2671581	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	685522003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	685522004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 12:58		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.986	0.330	1.00	mg/L		10	CWW	09/18/24	0825	2672211	1
Chloride		3080	33.5	100	mg/L		500	CWW	09/17/24	1838	2672211	2
Sulfate		323	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1325	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.65	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0217	2671581	4
Calcium		57.2	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0130	2671581	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0724	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00441	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0211	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5490	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	685522004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685522005	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 12:00		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.68	0.0330	0.100	mg/L		1	CWW	09/18/24	1208	2672211	1
Sulfate		0.482	0.133	0.400	mg/L		1					
Chloride		314	6.70	20.0	mg/L		100	CWW	09/17/24	1909	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1327	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0221	2671581	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0134	2671581	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0614	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00125	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.47	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00637	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000421	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00901	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000271	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1120	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685522005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685522006	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 15:59		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/17/24	1941	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1328	2672044	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0137	2671581	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0127	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685522006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685522007	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 16:07		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/17/24	2117	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1330	2672044	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0141	2671581	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00610	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685522007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 25, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685522**

Parmname		NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography														
Batch 2672211														
QC1205854701 685522001 DUP														
Chloride				100		100	mg/L	0.11			(0%-20%)	CWW	09/18/24	06:18
Fluoride			J	0.0749	J	0.0787	mg/L	4.95	^		(+/-0.100)		09/17/24	16:30
Sulfate				103		102	mg/L	1.38			(0%-20%)		09/18/24	06:18
QC1205854703 685645007 DUP														
Chloride				2590		2580	mg/L	0.343			(0%-20%)		09/18/24	01:31
Fluoride			J	0.870	J	0.906	mg/L	4.05	^		(+/-2.00)		09/18/24	16:22
Sulfate				317		326	mg/L	2.64	^		(+/-200)		09/18/24	01:31
QC1205854700 LCS														
Chloride		5.00				4.75	mg/L			95	(90%-110%)		09/17/24	15:26
Fluoride		2.50				2.40	mg/L			96	(90%-110%)			
Sulfate		10.0				9.73	mg/L			97.3	(90%-110%)			
QC1205854699 MB														
Chloride					U	ND	mg/L						09/17/24	14:55
Fluoride					U	ND	mg/L							
Sulfate					U	ND	mg/L							

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2672211											
QC1205854702 685522001 PS											
Chloride	5.00		5.02		10.2	mg/L		103	(90%-110%)	CWW	09/18/24 06:50
Fluoride	2.50	J	0.0749		2.63	mg/L		102	(90%-110%)		09/17/24 17:02
Sulfate	10.0		5.16		14.6	mg/L		94.2	(90%-110%)		09/18/24 06:50
QC1205854704 685645007 PS											
Chloride	5.00		5.17		10.3	mg/L		103	(90%-110%)		09/18/24 02:03
Fluoride	2.50	J	0.0435		2.46	mg/L		96.9	(90%-110%)		09/18/24 16:54
Sulfate	10.0		0.635		10.2	mg/L		96.1	(90%-110%)		09/18/24 02:03
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853454 LCS											
Antimony	0.0500				0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500				0.0490	mg/L		98	(80%-120%)		
Barium	0.0500				0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500				0.0568	mg/L		114	(80%-120%)		
Boron	0.100				0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500				0.0507	mg/L		101	(80%-120%)		
Calcium	2.00				2.17	mg/L		109	(80%-120%)		

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)	PRB	09/25/24 00:50
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)		
QC1205853453 MB										
Antimony			U	ND	mg/L					09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium				U	ND	mg/L				PRB	09/25/24 00:47
Cobalt				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Calcium	2.00		134		129	mg/L		N/A	(75%-125%)		09/25/24 01:56

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)	PRB	09/25/24 00:57
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)		09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Calcium	2.00		134		132	mg/L	2.6	N/A	(0%-20%)		09/25/24 01:59

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)	PRB	09/25/24 01:01
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)		
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		
QC1205865427 685517001 PS											
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)		09/25/24 01:05
QC1205853457 685517001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)		
Barium			72.7		15.7	ug/L	8.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24 02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Calcium		13400		2530	ug/L	5.23		(0%-20%)	PRB	09/25/24 02:03
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		55.0		10.4	ug/L	5.23		(0%-20%)		
Molybdenum	J	0.895	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2672044										
QC1205854435 685197001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/17/24 11:46
QC1205854434 LCS										
Mercury 0.00200				0.00207	mg/L		104	(80%-120%)		09/17/24 11:43
QC1205854433 MB										
Mercury			U	ND	mg/L					09/17/24 11:41
QC1205854436 685197001 MS										
Mercury 0.00200	U	ND		0.00196	mg/L		97.9	(75%-125%)		09/17/24 11:48

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2672044											
QC1205854437 685197001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	09/17/24	11:49
Solids Analysis											
Batch 2673177											
QC1205856808 685306001 DUP											
Total Dissolved Solids		398		393	mg/L	1.26		(0%-5%)	KLP1	09/17/24	11:07
QC1205856806 LCS											
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		09/17/24	11:07
QC1205856805 MB											
Total Dissolved Solids			U	ND	mg/L					09/17/24	11:07

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	685522		
	003	**004**	**005**
Boron	10X	10X	10X
Calcium	1X	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2672044

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2672043

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205854433	Method Blank (MB)**CVAA**
1205854434	Laboratory Control Sample (LCS)
1205854437	685197001(NonSDGL) Serial Dilution (SD)
1205854435	685197001(NonSDGD) Sample Duplicate (DUP)
1205854436	685197001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205854699	Method Blank (MB)
1205854700	Laboratory Control Sample (LCS)
1205854701	685522001(MCM-MCM-04) Sample Duplicate (DUP)
1205854702	685522001(MCM-MCM-04) Post Spike (PS)
1205854703	685645007(MCM-DR-02) Sample Duplicate (DUP)
1205854704	685645007(MCM-DR-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205854701 (MCM-MCM-04DUP), 1205854702 (MCM-MCM-04PS), 685522001 (MCM-MCM-04) and 685522002 (MCM-MCM-11) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS) and 685522004 (MCM-MCM-17) were diluted to minimize matrix effects on instrument performance. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685522				
	001	**002**	**003**	**004**	**005**
Chloride	20X	2X	50X	500X	100X
Fluoride	1X	1X	1X	10X	1X
Sulfate	20X	2X	1X	500X	1X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2673177

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205856805	Method Blank (MB)
1205856806	Laboratory Control Sample (LCS)
1205856808	685306001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

685522 685524

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04	9/10/24	1336	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11	9/10/24	1328	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/10/24	1326	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siefert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-MCM-16			G	N	WG				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-17	9/10/24	1258	G	N	WG			7	X	X	X	X	X		
MCM-MCM-18			G	N	WG				X	X	X	X	X		
MCM-MCM-19			G	N	WG				X	X	X	X	X		
MCM-MCM-20			G	N	WG				X	X	X	X	X		
MCM-DPZ-02			G	N	WG				X	X	X	X	X		
MCM-AP1-FD-01	9/10/24	—	FD	N	WQ			7	X	X	X	X	X		
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X		
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X		
MCM-AP1-FB-01	9/10/24	1559	FB	N	WQ			7	X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 33 of 66
660522

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Page 3 of 16 DUE 09/26/24 665522

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Ilg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	<-- Preservative Type (6)	Comments
									NI	NI			NI		
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	9/10/24	1607	EB	N	WQ			7	X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	9430
2			2		
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~**Dissolved Fe, Mn are the only Field Filtered Samples**~~

GEL Laboratories LLC

685517 685519 AP
685518 685521
685522 685524

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHRm 5 - 24° RCHRm 7 - 20° RCHRm 2 - 1° 4 - 2° 6 - 23° RCHRm

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius RCHRm TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HFB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 25 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685517

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the previous revision noted as SDG number 685517 Rev01 in the left-hand footer of the data report. Revision 02 updates the Project ID to align with the Chain of Custody, adds Dissolved to the Metals product ID, and includes Total Calcium reporting for GEL Sample ID 685517001.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID 'MCM-MCM-06' was removed from the chain of custody associated with GEL WO 685645 per client request. This data report provides a single result for analyses request on both the CCR Groundwater Compliance September 2024 and the rev 1 version of the 3-Week Sampling September 2024 chains of custody. Data is reported under the CCR Groundwater Compliance project name per client direction. The Radium-226/228 analysis was reported under WO 685519. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685517001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30
685517002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

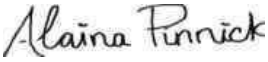
Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 3005A	16-SEP-2024
SW846 7470A Prep	13-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	19-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 3005A/6020B	27-SEP-2024
SW846 7470A	16-SEP-2024
SW846 7470A	19-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685517 GEL Work Order: 685517

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.392	0.132	0.400	mg/L		4	CH6	09/14/24	1508	2672160	1
Chloride		3240	33.5	100	mg/L		500	CH6	09/14/24	1539	2672160	2
Sulfate		271	26.6	80.0	mg/L		200	CH6	09/13/24	2205	2672160	3
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1301	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0054	2671581	5
Arsenic		0.107	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0727	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0435	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000895	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.745	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0145	2671581	6
Calcium		134	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5340	23.8	100	mg/L			KLP1	09/19/24	1453	2674517	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1235	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Total Metals "As Received"												
Boron		0.680	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1311	2672440	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1255	2672440	3
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0776	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0518	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000486	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00172	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853454 LCS										
Antimony	0.0500			0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500			0.0490	mg/L		98	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0568	mg/L		114	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		
Calcium	2.00			2.17	mg/L		109	(80%-120%)		
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Iron	2.00			1.99	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)	PRB	09/25/24 00:50
QC1205853453 MB										
Antimony			U	ND	mg/L					09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Selenium				U	ND	mg/L				PRB	09/25/24 00:47
Thallium				U	ND	mg/L					
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Calcium	2.00		134		129	mg/L		N/A	(75%-125%)		09/25/24 01:56
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)		09/25/24 00:57
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Iron	2.00	J	0.0435		1.85	mg/L		90.3	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)	PRB	09/25/24 00:57
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)		09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Calcium	2.00		134		132	mg/L	2.6	N/A	(0%-20%)		09/25/24 01:59
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)		09/25/24 01:01
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Iron	2.00	J	0.0435		1.86	mg/L	0.377	90.7	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)	PRB	09/25/24 01:01
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		
QC1205865427 685517001 PS											
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)		09/25/24 01:05
QC1205853457 685517001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)		
Barium			72.7		15.7	ug/L	8.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24 02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Calcium			13400		2530	ug/L	5.23		(0%-20%)		09/25/24 02:03
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Iron	J	43.5	U	ND	ug/L	N/A		(0%-20%)	PRB	09/25/24 01:08
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		55.0		10.4	ug/L	5.23		(0%-20%)		
Molybdenum	J	0.895	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2672440										
QC1205855318 LCS										
Antimony	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500			0.0480	mg/L		96	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500			0.0552	mg/L		110	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Iron	2.00			1.93	mg/L		96.6	(80%-120%)	PRB	09/27/24 11:19
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)		
QC1205855317 MB										
Antimony			U	ND	mg/L					09/27/24 11:16
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Iron				U	ND	mg/L				PRB	09/27/24 11:16
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000211	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Iron	2.00		118		120	mg/L		N/A	(75%-125%)	PRB	09/27/24	11:25
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)			
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)			
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)			
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)			
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)			
QC1205855320 685645001 MSD												
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24	11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)			
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)			
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)	PRB	09/27/24	11:28
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)			
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			84.8		16.7	ug/L	1.6		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Iron		23700		4810	ug/L	1.69		(0%-20%)	PRB	09/27/24 11:34
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.394	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2671700										
QC1205853724 LCS										
Mercury 0.00200				0.00202	mg/L		101	(80%-120%)	JP2	09/16/24 12:42
QC1205853723 MB										
Mercury			U	ND	mg/L					09/16/24 12:40
QC1205853725 685379001 MS										
Mercury 0.0200	U	ND		0.0203	mg/L		101	(75%-125%)		09/16/24 12:48
QC1205853726 685379001 MSD										
Mercury 0.0200	U	ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24 12:50
QC1205853727 685379001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24 12:51

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury	0.00200			0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59
QC1205857287 685645001 MS										
Mercury	0.00200 U	ND		0.00184	mg/L		92.2	(75%-125%)		09/19/24 12:09
QC1205857288 685645001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10
Solids Analysis										
Batch 2674517										
QC1205859366 685705001 DUP										
Total Dissolved Solids		516		516	mg/L	0		(0%-5%)	KLP1	09/19/24 14:53
QC1205859365 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/19/24 14:53
QC1205859364 MB										
Total Dissolved Solids			U	ND	mg/L					09/19/24 14:53

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 685517

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517001 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**685517**
	001
Boron	10X
Calcium	10X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(NonSDGL) Serial Dilution (SD)
1205855319	685645001(NonSDGS) Matrix Spike (MS)
1205855320	685645001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517002 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	685517
	002
Boron	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(NonSDGL) Serial Dilution (SD)
1205857286	685645001(NonSDGD) Sample Duplicate (DUP)
1205857287	685645001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS) and 685517001 (MCM-MCM-06) were diluted because target analyte concentrations exceeded the calibration range. Sample 685517001 (MCM-MCM-06) was diluted to minimize matrix effects on instrument performance. Sample 685517001 (MCM-MCM-06) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**685517001**
Chloride	500X
Fluoride	4X
Sulfate	200X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2674517

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205859364	Method Blank (MB)
1205859365	Laboratory Control Sample (LCS)
1205859366	685705001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 685517001 (MCM-MCM-06).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6) / Comments
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X	
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X	
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X	
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X	
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X	
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X	
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X	
~~MCM-AP1-FD-01~~	09-12-24	---	FD	Y*	WG			3	X	X	X	
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes:** **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes:** **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type:** **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number = Client Determined**

2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-MCM-01			G	N	WG				X	X	X	X	X		
MCM-MCM-02			G	N	WG				X	X	X	X	X		
MCM-MCM-04			G	N	WG				X	X	X	X	X		
MCM-MCM-05			G	N	WG				X	X	X	X	X		
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X		
MCM-MCM-07			G	N	WG				X	X	X	X	X		
MCM-MCM-11			G	N	WG				X	X	X	X	X		
MCM-MCM-12			G	N	WG				X	X	X	X	X		
MCM-MCM-14			G	N	WG				X	X	X	X	X		
MCM-MCM-15			G	N	WG				X	X	X	X	X		

Comments: Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 23756557

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*.~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Chain of Custody and Analytical Request

GEL Laboratories LLC — Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

GEL Work Order Number:

GEL Project Manager: Erin Trent

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	9/12/24	1430	[signature]	9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples**~~

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685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHTRM 5 - 24° RCHTRM 7 - 20° RCHTRM 2 - 1° 4 - 2° 6 - 23° RCHTRM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius RCHTRM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

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Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 23765S7

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
QC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~.

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Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
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MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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TSCA Regulated
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(F,K,P and U-listed wastes.)
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OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field-Filterd Samples**~~

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685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHERM 5 - 24° RCHERM 7 - 20° RCHERM 2 - 1° 4 - 2° 6 - 23° RCHERM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHERM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

Alaina Pinnick

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 12:32 PM
To: Alaina Pinnick; Team Pinnick; Will James; Midkiff, Laura B.; Kristen Jurinko (knjurink@southernco.com); Hodges, John Benjamin; Farris, Kathryn
Cc: Trent Godwin; William Laaker; Natalie Piparo
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

That will be fine. Thanks for the clarification.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Friday, October 4, 2024 12:31 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good morning,

I want to clarify, we did transfer the Radium 226/228 for MCM-06 to a unique WO separate from 688517 since we log these separately upon receipt.

This is currently being reported under WO 688519, I have attached the Login Review for WO 688519. Please let us know if this is acceptable or if you would prefer the data to be transferred to WO 688517 as well.

Thank you,
Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing



From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 8:30 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

Please find a few clarifications (provided by Laura Midkiff) to the list you provided yesterday. Please proceed with the analysis and I will reach out to the SCS/GPC team to confirm if a compiled revised COC should be provided. Thanks for your help.

Arsenic (total & dissolved)
Barium (total & dissolved)
Beryllium (total & dissolved)
Boron (total & dissolved)
Cadmium (total & dissolved)
Calcium (total)
Chromium (total & dissolved)
Cobalt (total & dissolved)
Iron (total & dissolved)
Lead (total & dissolved)
Lithium (total & dissolved)
Mercury (total & dissolved)
Molybdenum (total & dissolved)
Antimony (total & dissolved)
Selenium (total & dissolved)
Thallium (total & dissolved)
Chloride
Fluoride

Sulfate
TDS
Radium 226/228

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Thursday, October 3, 2024 5:58 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good afternoon,

I wanted to summarize our discussion regarding sample ID MCM-06. Per your request, we will be combining the two parameter lists from the reporting lists referenced for the COC projects “Plant McManus CCR Groundwater Compliance Sept. 2024” and “Plant McManus 3-Week Sampling September 2024”, and reporting them together. This sample ID will be reported under the project ID ”Plant McManus CCR Groundwater Compliance Sept. 2024”.

The combined parameter list includes the following:

Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Iron
Lead
Lithium

Mercury
Molybdenum
Antimony
Selenium
Thallium

Please note that this request deviates from our standard practice, which typically involves referring only to the revised chain of custody. To ensure we proceed correctly, please provide confirmation to move forward with this parameter list.

Let us know if this is acceptable or if any additional adjustments are needed.

Thank you,
Alaina Pinnick
Project Manager
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

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List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 3-Week Sampling September 2024
Work Order: 685645

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 13, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 685645 in the left-hand footer of the data report. Revision 01 updates the Project ID to match the Chain of Custody and adds Dissolved to the Metals product ID.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The shipping container was received with a broken seal. The client requested separate reporting for sample MCM-MCM-06. Metals and General Chemistry results are reported under GEL workorder 685517, while Radiochemistry parameters are reported under GEL workorder 685519. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685645001	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645003	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645004	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40
685645005	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40
685645006	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645007	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645008	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645009	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40
685645010	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 09:40
685645011	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 09:40
685645012	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645013	MCM-MCM-06	Ground Water	09/12/24 10:12	09/13/24 09:40
685645014	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645015	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40



685645016	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40
685645017	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645018	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645019	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645020	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

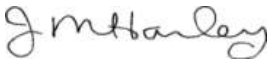
Method	Run Date ID
SW846 3005A	16-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-SEP-2024
EPA 300.0	18-SEP-2024
SW846 3005A/6020B	27-SEP-2024
SW846 7470A	19-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Joanne Harley for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685645 GEL Work Order: 685645

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

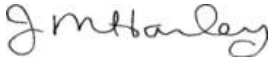
N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01024
Sample ID:	685645001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5360	67.0	200	mg/L		1000	CWW	09/17/24	2149	2672211	1
Sulfate		975	133	400	mg/L		1000					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1240	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1202	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1122	2672440	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.640	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.424	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		118	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	J	0.00197	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01024
Sample ID:	685645001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-PT-01
Sample ID: 685645003
Matrix: WG
Collect Date: 12-SEP-24 11:57
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4090	33.5	100	mg/L		500	CWW	09/17/24	2252	2672211	1
Sulfate		525	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1343	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1215	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1201	2672440	4
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0144	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1146	2672440	5
Barium	J	0.621	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0345	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00230	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01024
Sample ID:	685645003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-PT-02
Sample ID: 685645004
Matrix: WG
Collect Date: 12-SEP-24 14:31
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1415	2672211	1
Chloride		3660	33.5	100	mg/L		500	CWW	09/17/24	2324	2672211	2
Sulfate		430	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1217	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1204	2672440	4
Boron		0.669	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0231	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1149	2672440	5
Barium	J	0.496	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.24	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0290	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01024
Sample ID:	685645004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-PT-03
Sample ID: 685645005
Matrix: WG
Collect Date: 12-SEP-24 13:50
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.812	0.660	2.00	mg/L		20	CWW	09/18/24	1447	2672211	1
Chloride		3180	33.5	100	mg/L		500	CWW	09/17/24	2356	2672211	2
Sulfate		379	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1219	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.00507	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1152	2672440	4
Barium	J	0.171	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		18.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0395	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00183	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1207	2672440	5
Boron		0.721	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01024
Sample ID:	685645005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-DR-01
Sample ID: 685645006
Matrix: WG
Collect Date: 12-SEP-24 13:24
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0028	2672211	1
Sulfate		482	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1519	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1220	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1210	2672440	4
Barium	J	0.326	0.00335	2.00	mg/L	1.00	5					
Boron		0.691	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0270	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1155	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.265	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0429	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00240	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01024
Sample ID:	685645006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01024
Sample ID:	685645007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2590	33.5	100	mg/L		500	CWW	09/18/24	0100	2672211	1
Sulfate		317	66.5	200	mg/L		500					
Fluoride	J	0.870	0.660	2.00	mg/L		20	CWW	09/18/24	1551	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1222	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1220	2672440	4
Arsenic		0.0449	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0537	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.287	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0440	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000840	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00193	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.825	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1235	2672440	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01024
Sample ID:	685645007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-DR-03
Sample ID: 685645008
Matrix: WG
Collect Date: 12-SEP-24 10:47
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2110	33.5	100	mg/L		500	CWW	09/18/24	0339	2672211	1
Sulfate		324	66.5	200	mg/L		500					
Fluoride		1.08	0.330	1.00	mg/L		10	CWW	09/18/24	1902	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1223	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.744	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1238	2672440	4
Iron		212	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1223	2672440	5
Arsenic	J	0.00358	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0386	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0467	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000936	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01024
Sample ID:	685645008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 3-Week Sampling September 2024

Client Sample ID: MCM-AP1-FD-01
Sample ID: 685645009
Matrix: WG
Collect Date: 12-SEP-24 12:00
Receive Date: 13-SEP-24
Collector: Client

Project: GPCC01024
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1933	2672211	1
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0411	2672211	2
Sulfate		544	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1228	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1243	2672440	4
Barium	J	0.636	0.00335	2.00	mg/L	1.00	5					
Boron		0.712	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0141	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1226	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.192	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.0358	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01024
Sample ID:	685645009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01024
Sample ID:	685645010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0443	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1230	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1229	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00678	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01024
Sample ID:	685645010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01024
Sample ID:	685645011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:14		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0514	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1232	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1232	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01024
Sample ID:	685645011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01024
Sample ID:	685645012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1233	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	09/27/24	1252	2672440	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lithium	J	0.0101	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1308	2672440	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.605	0.00335	2.00	mg/L	1.00	5					
Boron		0.416	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Iron		96.9	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01024
Sample ID:	685645012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01024
Sample ID:	685645014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 11:57		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1237	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1314	2672440	2
Boron		0.737	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1258	2672440	3
Barium	J	0.608	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0789	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0344	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00224	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01024
Sample ID:	685645014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01024
Sample ID:	685645015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 14:31		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1238	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0219	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1301	2672440	2
Barium	J	0.477	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0272	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00260	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1317	2672440	3
Boron		0.618	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01024
Sample ID:	685645015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01024
Sample ID:	685645016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:50		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1240	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.701	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1320	2672440	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1305	2672440	3
Arsenic	J	0.00315	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.170	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		8.26	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0374	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000247	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00167	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01024
Sample ID:	685645016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01024
Sample ID:	685645017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:24		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1242	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1341	2672440	2
Barium	J	0.334	0.00335	2.00	mg/L	1.00	5					
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0281	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1329	2672440	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.238	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00238	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01024
Sample ID:	685645017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01024
Sample ID:	685645018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1243	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1332	2672440	2
Arsenic		0.0470	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0518	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0586	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000459	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.852	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1344	2672440	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01024
Sample ID:	685645018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01024
Sample ID:	685645019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:47		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1248	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1335	2672440	2
Arsenic	J	0.00357	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0379	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0466	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000821	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.763	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1347	2672440	3
Iron		215	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01024
Sample ID:	685645019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01024
Sample ID:	685645020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:00		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1250	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1338	2672440	2
Barium	J	0.611	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.102	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0343	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1350	2672440	3
Boron		0.716	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 3-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01024
Sample ID:	685645020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2672211												
QC1205854701 685522001 DUP												
Chloride			100		100	mg/L	0.11			(0%-20%)	CWW	09/18/24 06:18
Fluoride		J	0.0749	J	0.0787	mg/L	4.95	^		(+/-0.100)		09/17/24 16:30
Sulfate			103		102	mg/L	1.38			(0%-20%)		09/18/24 06:18
QC1205854703 685645007 DUP												
Chloride			2590		2580	mg/L	0.343			(0%-20%)		09/18/24 01:31
Fluoride		J	0.870	J	0.906	mg/L	4.05	^		(+/-2.00)		09/18/24 16:22
Sulfate			317		326	mg/L	2.64	^		(+/-200)		09/18/24 01:31
QC685645002 KILL												
Chloride					3050	mg/L						09/17/24 22:20
Fluoride				U	ND	mg/L						09/18/24 13:11
Sulfate					313	mg/L						09/17/24 22:20
QC1205854700 LCS												
Chloride	5.00				4.75	mg/L			95	(90%-110%)		09/17/24 15:26
Fluoride	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.73	mg/L			97.3	(90%-110%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2672211											
QC1205854699 MB											
Chloride				U	ND	mg/L				CWW	09/17/24 14:55
Fluoride				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1205854702 685522001 PS											
Chloride	5.00		5.02		10.2	mg/L		103	(90%-110%)		09/18/24 06:50
Fluoride	2.50	J	0.0749		2.63	mg/L		102	(90%-110%)		09/17/24 17:02
Sulfate	10.0		5.16		14.6	mg/L		94.2	(90%-110%)		09/18/24 06:50
QC1205854704 685645007 PS											
Chloride	5.00		5.17		10.3	mg/L		103	(90%-110%)		09/18/24 02:03
Fluoride	2.50	J	0.0435		2.46	mg/L		96.9	(90%-110%)		09/18/24 16:54
Sulfate	10.0		0.635		10.2	mg/L		96.1	(90%-110%)		09/18/24 02:03
Metals Analysis - ICPMS											
Batch 2672440											
QC1205855318 LCS											
Antimony	0.0500				0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500				0.0480	mg/L		96	(80%-120%)		
Barium	0.0500				0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500				0.0552	mg/L		110	(80%-120%)		

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Boron	0.100			0.109	mg/L		109	(80%-120%)	PRB	09/27/24 11:19
Cadmium	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.6	(80%-120%)		
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)		
QC1205855317 MB										
Antimony			U	ND	mg/L					09/27/24 11:16
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Boron			U	ND	mg/L				PRB	09/27/24 11:16
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			J	0.000211	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205855319 685645001 MS										
Antimony	0.0500	U	ND	0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND	0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640	0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0466	mg/L		93.2	(75%-125%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)	PRB	09/27/24 11:25
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		
Iron	2.00		118		120	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)		
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)		
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)		
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)		
QC1205855320 685645001 MSD											
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24 11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)		
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)	PRB	09/27/24	11:28
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)			
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)			
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Boron		84.8		16.7	ug/L	1.6		(0%-20%)	PRB	09/27/24 11:34
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		23700		4810	ug/L	1.69		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.394	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury	0.00200			0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2673473											
QC1205857287 685645001 MS											
Mercury	0.00200	U	ND		0.00184	mg/L		92.2	(75%-125%)	JP2	09/19/24 12:09
QC1205857288 685645001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 685645

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(MCM-INW-01L) Serial Dilution (SD)
1205855319	685645001(MCM-INW-01S) Matrix Spike (MS)
1205855320	685645001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645013 (MCM-MCM-06), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645016 (MCM-PT-03), 685645017 (MCM-DR-01), 685645018 (MCM-DR-02), 685645019 (MCM-DR-03) and 685645020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645017 (MCM-DR-01) and 685645020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	685645									
	001	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**	**014**
Antimony	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Arsenic	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Barium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Calcium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	5X	1X	5X	1X
Lead	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Selenium	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Thallium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X

Analyte	685645					
	015	**016**	**017**	**018**	**019**	**020**
Antimony	5X	1X	5X	1X	1X	5X
Barium	1X	1X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	5X	1X	1X	5X
Iron	1X	1X	1X	1X	5X	1X
Lead	1X	1X	5X	1X	1X	1X
Molybdenum	5X	1X	5X	1X	1X	5X
Thallium	1X	1X	5X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(MCM-INW-01L) Serial Dilution (SD)
1205857286	685645001(MCM-INW-01D) Sample Duplicate (DUP)
1205857287	685645001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification

685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
1205854699	Method Blank (MB)
1205854700	Laboratory Control Sample (LCS)
1205854701	685522001(NonSDG) Sample Duplicate (DUP)
1205854702	685522001(NonSDG) Post Spike (PS)
1205854703	685645007(MCM-DR-02) Sample Duplicate (DUP)
1205854704	685645007(MCM-DR-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205854701 (Non SDG 685522001DUP) and 1205854702 (Non SDG 685522001PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685645								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	20X	20X	20X	20X	20X	20X	10X	20X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 685645

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Ewert, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-INW-01	09-12-24	1210	G	Y*	WG			3	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-PT-01	09-12-24	1157	G	Y*	WG			3	X	X	X		
MCM-PT-02	09-12-24	1431	G	Y*	WG			3	X	X	X		
MCM-PT-03	09-12-24	1350	G	Y*	WG			3	X	X	X		
MCM-DR-01	09-12-24	1324	G	Y*	WG			3	X	X	X		
MCM-DR-02	09-12-24	1508	G	Y*	WG			3	X	X	X		
MCM-DR-03	09-12-24	1047	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	09-12-24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	09-12-24	1310	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1640		9/13/24	940
2						
3						

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
MCM-AP1-EB-01	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1	9/13/24	940
2			2		
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 55 of 99 ID: 665645 Rev1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 685645

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 9/13/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2754 8412 3180

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: [redacted] If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*				Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0C
4	~~Daily check performed and passed on IR temperature gun?~~	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/16/24 Page 1 of 1

Alaina Pinnick

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Wednesday, September 25, 2024 10:01 AM
To: Alaina Pinnick; Team Pinnick; Will James; Kristen Jurinko (knjurink@southernco.com); Midkiff, Laura B.; Hodges, John Benjamin; Smilley, Michael Jay
Cc: Trent Godwin; William Laaker; Natalie Piparo
Subject: RE: McManus Semiannual and Week 3 Post Injection Reporting Revisions
Attachments: COC 2024-09-12 GEL - MCM-06.pdf

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

Please find the attached updated COC for the separate MCM-06 PDF report. Both the compliance COC (task code: MCM-CCR-ASSMT-2024S2) and the attached COC should be included in the reporting.

Additionally, could a note be added to the full report narrative to reflect that MCM-06 was removed to be included on a separate report and reference the separate SDG #.

Thanks for your help and let me know of any questions.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Kevin Stephenson
Sent: Tuesday, September 24, 2024 1:59 PM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; team.pinnick@gel.com; Will James <Will.James@gel.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: McManus Semiannual and Week 3 Post Injection Reporting Revisions

Alaina,

After some internal discussions, we have made the decision to adjust the reporting for MCM-06 for the Semiannual and Week 3 Post Injection events. Two separate samples have been submitted for each event but after discussions we found that the duplicate samples would create issues for the database. In the place of the two separate reports, we would instead like to have one separate expanded report for MCM-06 that will include both the semiannual and the Week 3 post injection analyte list. I have attached the revised well and analyte list for each report.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 3
Work Order: 685521

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685521001	MCM-MCM-01	Ground Water	09/11/24 10:15	09/12/24 14:30
685521002	MCM-MCM-02	Ground Water	09/11/24 15:14	09/12/24 14:30
685521003	MCM-MCM-05	Ground Water	09/11/24 12:14	09/12/24 14:30
685521004	MCM-MCM-07	Ground Water	09/11/24 10:21	09/12/24 14:30
685521005	MCM-MCM-14	Ground Water	09/11/24 15:41	09/12/24 14:30
685521006	MCM-MCM-15	Ground Water	09/11/24 15:35	09/12/24 14:30
685521007	MCM-MCM-16	Ground Water	09/11/24 11:58	09/12/24 14:30
685521008	MCM-MCM-18	Ground Water	09/11/24 09:51	09/12/24 14:30
685521009	MCM-MCM-19	Ground Water	09/11/24 11:20	09/12/24 14:30
685521010	MCM-MCM-20	Ground Water	09/11/24 15:13	09/12/24 14:30
685521011	MCM-DPZ-02	Ground Water	09/11/24 10:24	09/12/24 14:30
685521012	MCM-AP1-FD-02	Ground Water	09/11/24 12:00	09/12/24 14:30
685521013	MCM-AP1-FB-02	Water	09/11/24 12:05	09/12/24 14:30
685521014	MCM-AP1-EB-02	Water	09/11/24 12:14	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	28-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685521 GEL Work Order: 685521

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Hannah Bowden

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-01
Sample ID: 685521001
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.360	+/-0.817	1.48	+/-0.822	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.61	+/-1.10	1.48	+/-1.15		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.25	+/-0.738	0.361	+/-0.811	1.00	pCi/L			MJ2	09/25/24	0805	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	81.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-02
Sample ID: 685521002
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.30	+/-1.34	2.22	+/-1.38	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.28	+/-1.75	2.22	+/-1.94		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.99	+/-1.13	0.690	+/-1.37	1.00	pCi/L			MJ2	09/25/24	0805	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	89.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-05
Sample ID: 685521003
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.83	+/-1.07	1.57	+/-1.17	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.55	+/-1.16	1.57	+/-1.26		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.722	+/-0.435	0.483	+/-0.460	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	86.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-07
Sample ID: 685521004
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.19	+/-1.26	1.55	+/-1.50	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.35	+/-1.42	1.55	+/-1.70		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.16	+/-0.662	0.304	+/-0.788	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-14
Sample ID: 685521005
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.75	+/-1.36	2.18	+/-1.43	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.40	+/-1.52	2.18	+/-1.60		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.65	+/-0.681	0.484	+/-0.722	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-15
Sample ID: 685521006
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.36	+/-1.34	2.21	+/-1.38	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.32	+/-1.55	2.21	+/-1.73		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.97	+/-0.784	0.475	+/-1.04	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	88.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-16
Sample ID: 685521007
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0284	+/-0.873	1.69	+/-0.873	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.89	+/-1.11	1.69	+/-1.19		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.89	+/-0.681	0.428	+/-0.809	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-18
Sample ID: 685521008
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.87	+/-1.54	1.77	+/-2.15	3.00	pCi/L			KP1	09/28/24	1030	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		9.30	+/-1.76	1.77	+/-2.43		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.43	+/-0.836	0.365	+/-1.14	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-19
Sample ID: 685521009
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		9.79	+/-2.18	2.57	+/-3.32	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		15.5	+/-2.50	2.57	+/-3.69		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		5.71	+/-1.23	0.584	+/-1.62	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
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Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-20
Sample ID: 685521010
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		27.0	+/-3.13	2.29	+/-7.56	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		29.4	+/-3.21	2.29	+/-7.61		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.48	+/-0.717	0.311	+/-0.897	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	76.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
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Column headers are defined as follows:

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DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
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Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-DPZ-02
Sample ID: 685521011
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.76	+/-1.43	2.01	+/-1.72	3.00	pCi/L			KP1	09/28/24	1030	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.95	+/-1.74	2.01	+/-2.13		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.19	+/-0.987	0.465	+/-1.25	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	92.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-FD-02
Sample ID: 685521012
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.978	+/-1.53	2.64	+/-1.55	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.43	+/-1.80	2.64	+/-1.94		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.46	+/-0.945	0.519	+/-1.17	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-FB-02
Sample ID: 685521013
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.77	+/-1.48	2.40	+/-1.55	3.00	pCi/L			KP1	09/25/24	1503	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.04	+/-1.51	2.40	+/-1.58		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.267	+/-0.302	0.471	+/-0.308	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-EB-02
Sample ID: 685521014
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.764	+/-1.36	2.36	+/-1.37	3.00	pCi/L			KP1	09/25/24	1503	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.00	+/-1.38	2.36	+/-1.40		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.237	+/-0.273	0.396	+/-0.277	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672836

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18
685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02
685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2672820

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18

685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02
685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02
1205856157	Method Blank (MB)
1205856158	685519001(MCM-MCM-06) Sample Duplicate (DUP)
1205856159	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205856157 (MB)	Radium-228	Result: 2.48 pCi/L > MDA: 1.29 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Recounts
Samples 685521008 (MCM-MCM-18) and 685521011 (MCM-DPZ-02) were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2672288

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18
685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02

685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02
1205854953	Method Blank (MB)
1205854954	684753001(NonSDG) Sample Duplicate (DUP)
1205854955	684753001(NonSDG) Matrix Spike (MS)
1205854956	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205854955 (Non SDG 684753001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685521**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672820										
QC1205856158 685519001 DUP										
Radium-228		3.25		2.64	pCi/L	20.5		(0% - 100%)	KP1	09/25/2415:03
	Uncert:	+/-1.56		+/-1.18						
	TPU:	+/-1.76		+/-1.36						
QC1205856159 LCS										
Radium-228	69.6			81.7	pCi/L		117	(75%-125%)	KP1	09/25/2415:03
	Uncert:			+/-4.66						
	TPU:			+/-21.3						
QC1205856157 MB										
Radium-228				2.48	pCi/L				KP1	09/25/2415:03
	Uncert:			+/-1.01						
	TPU:			+/-1.19						
Rad Ra-226										
Batch 2672288										
QC1205854954 684753001 DUP										
Radium-226		1.39		1.87	pCi/L	29.4		(0% - 100%)	MJ2	09/25/2409:17
	Uncert:	+/-0.618		+/-0.653						
	TPU:	+/-0.661		+/-0.780						
QC1205854956 LCS										
Radium-226	27.2			31.2	pCi/L		115	(75%-125%)	MJ2	09/25/2409:17
	Uncert:			+/-2.86						
	TPU:			+/-5.59						
QC1205854953 MB										
Radium-226			U	0.408	pCi/L				MJ2	09/25/2409:17
	Uncert:			+/-0.361						
	TPU:			+/-0.369						
QC1205854955 684753001 MS										
Radium-226	131	1.39		152	pCi/L		116	(75%-125%)	MJ2	09/25/2409:17
	Uncert:	+/-0.618		+/-13.7						
	TPU:	+/-0.661		+/-26.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685521**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

685518 685521

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	<-- Preservative Type (6)
									NI	NI			NI	
MCM-MCM-01	9/11/24	1015	G	N	WG			1	X	X	X	X	X	
MCM-MCM-02	9/11/24	1514	G	N	WG			1	X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05	9/11/24	1214	G	N	WG			1	X	X	X	X	X	
MCM-MCM-06			G	N	WG				X	X	X	X	X	
MCM-MCM-07	9/11/24	1021	G	N	WG			1	X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14	9/11/24	1541	G	N	WG			1	X	X	X	X	X	
MCM-MCM-15	9/11/24	1535	G	N	WG			1	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * *For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16	9/11/24	1158	G	N	WG			7	X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18	9/11/24	0951	G	N	WG			7	X	X	X	X	X						
MCM-MCM-19	9/11/24	1120	G	N	WG			7	X	X	X	X	X						
MCM-MCM-20	9/11/24	1513	G	N	WG			7	X	X	X	X	X						
MCM-DPZ-02	9/11/24	1024	G	N	WG			7	X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02	9/11/24	—	FD	N	WQ			7	X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-02	9/11/24	1205	FB	N	WQ			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

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Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siefert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-02	9/11/24	1214	EB	N	WQ			7	X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ ***°C***

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~**Dissolved Fe, Mn are the only Field Filterd Samples***~~

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685517 685519
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHRM 5 - 24° RCHRM 7 - 20° RCHRM 2 - 1° 4 - 2° 6 - 23° RCHRM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHRM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685524

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 685524 in the left-hand footer of the data report. Revision 01 updates the Project ID to match the Chain of Custody.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Radium 226/228 is reported in this data package. All other analyses requested on the chain of custody were reported under GEL WO 685522. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685524001	MCM-MCM-04	Ground Water	09/10/24 13:36	09/12/24 14:30
685524002	MCM-MCM-11	Ground Water	09/10/24 13:28	09/12/24 14:30
685524003	MCM-MCM-12	Ground Water	09/10/24 13:26	09/12/24 14:30
685524004	MCM-MCM-17	Ground Water	09/10/24 12:58	09/12/24 14:30
685524005	MCM-AP1-FD-01	Water	09/10/24 12:00	09/12/24 14:30
685524006	MCM-AP1-FB-01	Water	09/10/24 15:59	09/12/24 14:30
685524007	MCM-AP1-EB-01	Water	09/10/24 16:07	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

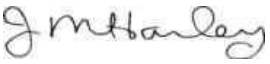


Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	25-SEP-2024
EPA 903.1 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Joanne Harley for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685524 GEL Work Order: 685524

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

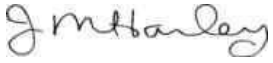
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-04
Sample ID: 685524001
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.40	+/-0.971	1.47	+/-1.03	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.33	+/-1.29	1.47	+/-1.43		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.93	+/-0.849	0.586	+/-0.985	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	86.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-11
Sample ID: 685524002
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-1.00	1.63	+/-1.04	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.49	+/-1.14	1.63	+/-1.21		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.41	+/-0.549	0.408	+/-0.610	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	90.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-12
Sample ID: 685524003
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.91	+/-0.930	1.21	+/-1.05	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.80	+/-1.28	1.21	+/-1.46		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.89	+/-0.878	0.472	+/-1.02	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	92.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-17
Sample ID: 685524004
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.60	+/-1.04	1.57	+/-1.12	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.29	+/-1.28	1.57	+/-1.45		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.69	+/-0.741	0.306	+/-0.919	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	90.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FD-01
Sample ID: 685524005
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.03	+/-1.10	1.83	+/-1.13	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.16	+/-1.33	1.83	+/-1.42		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.14	+/-0.741	0.616	+/-0.850	1.00	pCi/L			MJ2	09/25/24	1034	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FB-01
Sample ID: 685524006
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.21	+/-1.31	2.18	+/-1.34	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.58	+/-1.34	2.18	+/-1.38		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.365	+/-0.298	0.367	+/-0.308	1.00	pCi/L			MJ2	09/25/24	1035	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-EB-01
Sample ID: 685524007
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.09	+/-1.08	1.77	+/-1.11	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.84	+/-1.19	1.77	+/-1.22		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.754	+/-0.503	0.570	+/-0.517	1.00	pCi/L			MJ2	09/25/24	1035	2672289	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	85	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 685524

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672840

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2672838

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01
1205856168	Method Blank (MB)
1205856169	685524001(MCM-MCM-04) Sample Duplicate (DUP)
1205856170	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2672289

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01
1205854957	Method Blank (MB)
1205854958	684690001(NonSDG) Sample Duplicate (DUP)
1205854959	684690001(NonSDG) Matrix Spike (MS)
1205854960	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 1205854959 (Non SDG 684690001MS) was recounted due to low recovery. The recount is reported. Sample 1205854957 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1205854959 (Non SDG 684690001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685524**

Report Date: October 4, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672838										
QC1205856169 685524001 DUP										
Radium-228	U	1.40		3.44	pCi/L	84.4		(0% - 100%)	KP1	09/25/2414:02
	Uncert:	+/-0.971		+/-1.48						
	TPU:	+/-1.03		+/-1.72						
QC1205856170 LCS										
Radium-228	69.7			55.0	pCi/L		79	(75%-125%)	KP1	09/25/2414:02
	Uncert:			+/-3.80						
	TPU:			+/-14.5						
QC1205856168 MB										
Radium-228			U	1.47	pCi/L				KP1	09/25/2414:02
	Uncert:			+/-1.02						
	TPU:			+/-1.09						
Rad Ra-226										
Batch 2672289										
QC1205854958 684690001 DUP										
Radium-226	U	0.185	U	0.392	pCi/L	0		N/A	MJ2	09/25/2410:35
	Uncert:	+/-0.256		+/-0.389						
	TPU:	+/-0.258		+/-0.395						
QC1205854960 LCS										
Radium-226	26.6			24.8	pCi/L		93.3	(75%-125%)	MJ2	09/25/2410:35
	Uncert:			+/-2.46						
	TPU:			+/-5.21						
QC1205854957 MB										
Radium-226			U	0.262	pCi/L				MJ2	09/25/2411:56
	Uncert:			+/-0.262						
	TPU:			+/-0.268						
QC1205854959 684690001 MS										
Radium-226	136 U	0.185		102	pCi/L		75.5	(75%-125%)	MJ2	09/25/2411:56
	Uncert:	+/-0.256		+/-11.2						
	TPU:	+/-0.258		+/-24.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685524**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

685522 685524

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: kmjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						**Comments** Note: extra sample is required for sample specific QC
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04	9/10/24	1336	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11	9/10/24	1328	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/10/24	1326	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17	9/10/24	1258	G	N	WG			7	X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01	9/10/24	—	FD	N	WQ			7	X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-01	9/10/24	1559	FB	N	WQ			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Rev1 08/15/2024 Rev1 08/15/2024 Rev1 08/15/2024 Rev1 08/15/2024 Rev1

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						
MCM-AP1-EB-01	9/10/24	1607	EB	N	WQ			7	X	X	X	X	X						
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	9430
2			2		
3			3		

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No **Cooler Temp: ____°C**

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~***Dissolved Fe, Mn are the only Field-Filtered Samples***~~

SOP-18 Rev 24.0 8/8/2024 Effective Date: 8/8/2024 Page 524 of 568

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Cooler 1 - 2° 3 - 18°RCHERM 5 - 24°RCHERM 7 - 20° RCHERM
2 - 1° 4 - 2° 6 - 23° RCHERM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHERM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 09, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685519

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID 'MCM-MCM-06' was removed from the chain of custody associated with GEL WO 685645 per client request. This data report provides a single result for the Radium 226/288 request on the CCR Groundwater Compliance September 2024 chain of custody. Data is reported under the CCR Groundwater Compliance project name per client direction. All other analyses were reported under WO 685517. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685519001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

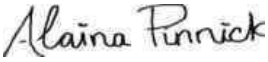
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	09-OCT-2024
EPA 903.1 Modified	07-OCT-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685519 GEL Work Order: 685519

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 9, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-06
Sample ID: 685519001
Matrix: WG
Collect Date: 12-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.25	+/-1.56	2.24	+/-1.76	3.00	pCi/L			KP1	09/25/24	1458	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.25	+/-1.72	2.24	+/-1.95		pCi/L		1	TON1	10/09/24	0810	2682748	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.732	0.397	+/-0.847	1.00	pCi/L			MJ2	10/07/24	0955	2672300	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 685519

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2682748

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2672820

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06
1205856157	Method Blank (MB)
1205856158	685519001(MCM-MCM-06) Sample Duplicate (DUP)
1205856159	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205856157 (MB)	Radium-228	Result: 2.48 pCi/L > MDA: 1.29 pCi/L <= RDL: 3.00 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2672300

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06
1205854990	Method Blank (MB)
1205854991	685023001(NonSDG) Sample Duplicate (DUP)
1205854992	685023001(NonSDG) Matrix Spike (MS)
1205854993	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205854992 (Non SDG 685023001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685519**

Report Date: October 9, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672820										
QC1205856158 685519001 DUP										
Radium-228		3.25		2.64	pCi/L	20.5		(0% - 100%)	KP1	09/25/2415:03
	Uncert:	+/-1.56		+/-1.18						
	TPU:	+/-1.76		+/-1.36						
QC1205856159 LCS										
Radium-228	69.6			81.7	pCi/L		117	(75%-125%)	KP1	09/25/2415:03
	Uncert:			+/-4.66						
	TPU:			+/-21.3						
QC1205856157 MB										
Radium-228				2.48	pCi/L				KP1	09/25/2415:03
	Uncert:			+/-1.01						
	TPU:			+/-1.19						
Rad Ra-226										
Batch 2672300										
QC1205854991 685023001 DUP										
Radium-226		1.69		2.81	pCi/L	50		(0% - 100%)	MJ2	10/07/2409:55
	Uncert:	+/-0.600		+/-0.922						
	TPU:	+/-0.687		+/-1.05						
QC1205854993 LCS										
Radium-226	27.2			22.7	pCi/L		83.7	(75%-125%)	MJ2	10/07/2410:13
	Uncert:			+/-2.22						
	TPU:			+/-5.18						
QC1205854990 MB										
Radium-226			U	0.251	pCi/L				MJ2	10/07/2409:55
	Uncert:			+/-0.278						
	TPU:			+/-0.284						
QC1205854992 685023001 MS										
Radium-226	130	1.69		148	pCi/L		112	(75%-125%)	MJ2	10/07/2409:55
	Uncert:	+/-0.600		+/-12.8						
	TPU:	+/-0.687		+/-30.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685519**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6) / Comments
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X	
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X	
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X	
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X	
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X	
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X	
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X	
~~MCM-AP1-FD-01~~	09-12-24	----	FD	Y*	WG			3	X	X	X	
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes: N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number = Client Determined**

2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

685517 685519
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHEM 5 - 24° RCHEM 7 - 20° RCHEM 2 - 1° 4 - 2° 6 - 23° RCHEM

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 23765S7

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

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~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~.

Page 13 of 20 SDG: 685519

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Page 14 of 20 SDG 668519

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

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Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1		9/12/24	1430
2				2			
3				3			

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

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As = Arsenic **Hg**= Mercury
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(F,K,P and U-listed wastes.)
Waste code(s):

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OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field-Filterd Samples**~~

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18°RCHERM 5 - 24°RCHERM 7 - 20° RCHERM 2 - 1° 4 - 2° 6 - 23° RCHRM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius RCHERM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

Alaina Pinnick

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 12:32 PM
To: Alaina Pinnick; Team Pinnick; Will James; Midkiff, Laura B.; Kristen Jurinko (knjurink@southernco.com); Hodges, John Benjamin; Farris, Kathryn
Cc: Trent Godwin; William Laaker; Natalie Piparo
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

That will be fine. Thanks for the clarification.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Friday, October 4, 2024 12:31 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good morning,

I want to clarify, we did transfer the Radium 226/228 for MCM-06 to a unique WO separate from 688517 since we log these separately upon receipt.

This is currently being reported under WO 688519, I have attached the Login Review for WO 688519. Please let us know if this is acceptable or if you would prefer the data to be transferred to WO 688517 as well.

Thank you,
Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing



From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 8:30 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

Please find a few clarifications (provided by Laura Midkiff) to the list you provided yesterday. Please proceed with the analysis and I will reach out to the SCS/GPC team to confirm if a compiled revised COC should be provided. Thanks for your help.

Arsenic (total & dissolved)
Barium (total & dissolved)
Beryllium (total & dissolved)
Boron (total & dissolved)
Cadmium (total & dissolved)
Calcium (total)
Chromium (total & dissolved)
Cobalt (total & dissolved)
Iron (total & dissolved)
Lead (total & dissolved)
Lithium (total & dissolved)
Mercury (total & dissolved)
Molybdenum (total & dissolved)
Antimony (total & dissolved)
Selenium (total & dissolved)
Thallium (total & dissolved)
Chloride
Fluoride

Sulfate
TDS
Radium 226/228

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Thursday, October 3, 2024 5:58 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good afternoon,

I wanted to summarize our discussion regarding sample ID MCM-06. Per your request, we will be combining the two parameter lists from the reporting lists referenced for the COC projects “Plant McManus CCR Groundwater Compliance Sept. 2024” and “Plant McManus 3-Week Sampling September 2024”, and reporting them together. This sample ID will be reported under the project ID ”Plant McManus CCR Groundwater Compliance Sept. 2024”.

The combined parameter list includes the following:

Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Iron
Lead
Lithium

Mercury
Molybdenum
Antimony
Selenium
Thallium

Please note that this request deviates from our standard practice, which typically involves referring only to the revised chain of custody. To ensure we proceed correctly, please provide confirmation to move forward with this parameter list.

Let us know if this is acceptable or if any additional adjustments are needed.

Thank you,
Alaina Pinnick
Project Manager
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
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Analytical Testing

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List of current GEL Certifications as of 09 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

Stage 2A Data Verification Report
Georgia Power
McManus Fossil Plant
Coal Combustion Residuals Project
Groundwater Samples

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the 16 groundwater samples collected as part of the September 2024 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by GEL Laboratories, LLC (GEL) in Charleston, South Carolina, for total and dissolved metals by SW-846 6020B; for total and dissolved mercury by SW-846 Method 7470A; for total dissolved solids (TDS) by Standard Method (SM) 2540C; and for anions (specifically, chloride, fluoride, and sulfate) by US EPA Method 300.0.

This review was performed with guidance from the US EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the US EPA Region IV Data Validation Standard Operating Procedures (SOPs; US EPA Region IV, September 2011); and the applied analytical methods. These validation guidance documents, with the exception of the analytical methods, specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the SM, SW-846, and US EPA methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the SM, SW-846, and US EPA methods utilized by the laboratory.

Summary

The analytical results and associated laboratory quality control (QC) samples were reviewed to determine the integrity of the reported analytical results and to verify that the data met the established data quality objectives.

The samples collected from 9/10/24 through 9/12/24 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review:
MCM-MCM-01, MCM-MCM-02, MCM-MCM-04, MCM-MCM-05, MCM-MCM-06, MCM-MCM-07, MCM-MCM-11, MCM-MCM-12, MCM-MCM-14, MCM-MCM-15, MCM-MCM-16, MCM-MCM-17, MCM-MCM-18, MCM-MCM-19, MCM-MCM-20, and MCM-DPZ-02.

The following GEL inorganic SDGs were evaluated as part of this QA review: 685517, 685518, and 685522.

All data are considered usable as reported, or usable after integration of data validation qualifications.

Inorganic Data Review

Data validation was performed for these samples based on the sample results, summary QC data, and raw data provided by the laboratory. The findings offered in this report for the inorganic analyses are based upon a review of the following QC measures:

- Sample condition upon laboratory receipt
- Chain-of-Custody (COC) Records
- Blank analysis results
- Laboratory control sample (LCS) recoveries
- Laboratory duplicate precision
- Sample holding times
- Case Narratives
- Field duplicate precision
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision

The above QC measures were evaluated against the analytical method requirements and QC acceptance criteria. The data were validated based on guidance from the US EPA Region IV Data Validation SOPs, the referenced procedures, and were qualified as appropriate as described in the sections below.

Comment and Exception

1. The following field duplicate pairs (see table) were submitted and analyzed for inorganic parameters with this data set. Acceptable precision and sample representativeness were demonstrated by the reported results in the field duplicate pair evaluation (the relative percent difference [RPD] between results was ≤ 20% when both results were ≥ 5× the reporting limit [RL], the difference between results was ≤ the RL when at least one result was < 5× the RL) with any exceptions noted below.

Laboratory SDG	Sample	Field Duplicate
685518	MCM-DPZ-02	MCM-AP1-FD-02
685522	MCM-MCM-12	MCM-AP1-FD-01

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

Laboratory SDG(s)	Sample(s)	Analyte(s)	Qualifier(s)	Reason for Qualification
685517	MCM-MCM-06	dissolved molybdenum	U*	BL – Method blank contamination
685518	MCM-MCM-01, MCM-MCM-07, MCM-MCM-14, MCM-MCM-15, and MCM-MCM-18	total arsenic	U*	BF– Field blank contamination
685518	MCM-MCM-07 and MCM-DPZ-02	total molybdenum	U*	BL – Method blank contamination
685522	MCM-MCM-11	total boron	U*	BF– Field blank contamination
685517	MCM-MCM-06	total selenium	UJ	M- – Low MS/MSD recoveries
685522	all samples	total selenium	UJ	M- – Low MS/MSD recoveries
685517	MCM-MCM-06	chloride	J	M+ – High MS recovery
685518	all samples	chloride	J	M+ – High MS recovery

- All inorganic positive results reported between the method detection limit (MDL) and RL have been flagged “J” (unless previously qualified “U*).

Report prepared by: Wendy Zhou, Quality Assurance Chemist
Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist
Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
Date: 10/31/2024

INORGANIC DATA QUALIFIERS

U - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit.

U* - This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

UJ - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

J - The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R - The data are unusable. The sample results are rejected due to serious analytical deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

UR - The analyte was analyzed for, but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

Reason Codes and Explanations

Reason Code	Explanation
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
C	Initial and/or continuing calibration issue, indeterminate bias.
C+	Initial and/or continuing calibration issue. The result may be biased high.
C-	Initial and/or continuing calibration issue. The result may be biased low.
FD	Field duplicate imprecision.
FG	Total versus dissolved imprecision.
H	Holding time exceeded.
I	Internal standard recovery outside of acceptance limits.
L	LCS and LCSD recoveries outside of acceptance limits, indeterminate bias.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits, indeterminate bias.
M+	MS and/or MSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.
MP	MS/MSD imprecision.
P	Post-digestion spike recoveries outside of acceptance limits, indeterminate bias.
P+	Post-digestion spike recovery outside of acceptance limits. The result may be biased high.
P-	Post-digestion spike recovery outside of acceptance limits. The result may be biased low.
Q	Chemical preservation issue.
R	RL standards outside of acceptance limits, indeterminate bias.
R+	RL standard(s) outside of acceptance limits. The result may be biased high.
R-	RL standard(s) outside of acceptance limits. The result may be biased low.
T	Temperature preservation issue.
SD	Serial dilution imprecision.
Y	Chemical yields outside of acceptance limits, indeterminate bias.
Y+	Chemical yield(s) outside of acceptance limits. The result may be biased high.
Y-	Chemical yield(s) outside of acceptance limits. The result may be biased low.
ZZ	Other

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

Stage 2A Data Verification Report
Georgia Power
McManus Fossil Plant
Coal Combustion Residuals Project
Groundwater Samples

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the 16 groundwater samples collected as part of the September 2024 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by GEL Laboratories, LLC (GEL) in Charleston, South Carolina, for radium-226 by US EPA Method 903.1, for radium-228 by US EPA Method 904.0, and for combined radium-226+228 by calculation.

This review was performed with guidance from the US EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the US EPA Region IV Data Validation Standard Operating Procedures (SOPs; US EPA Region IV, September 2011); and the applied analytical methods. These validation guidance documents, with the exception of the analytical methods, specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA methods utilized by the laboratory.

Summary

The analytical results and associated laboratory quality control (QC) samples were reviewed to determine the integrity of the reported analytical results and to verify that the data met the established data quality objectives.

The samples collected from 9/10/24 through 9/12/24 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review:
MCM-MCM-01, MCM-MCM-02, MCM-MCM-04, MCM-MCM-05, MCM-MCM-06, MCM-MCM-07, MCM-MCM-11, MCM-MCM-12, MCM-MCM-14, MCM-MCM-15, MCM-MCM-16, MCM-MCM-17, MCM-MCM-18, MCM-MCM-19, MCM-MCM-20, and MCM-DPZ-02.

The following GEL radiological SDGs were evaluated as part of this QA review: 685519, 685521, and 685524.

All data are considered usable as reported, or usable after integration of data validation qualifications.

Radiological Data Review

Data validation was performed for these samples based on the sample results, summary QC data, and raw data provided by the laboratory. The findings offered in this report for the radiological analyses are based upon a review of the following QC measures:

- Sample condition upon laboratory receipt
- Chain-of-Custody (COC) Records
- Blank analysis results
- Laboratory control sample (LCS) recoveries
- Laboratory duplicate precision
- Sample holding times
- Case Narratives
- Matrix spike (MS) recoveries
- Field duplicate precision
- Chemical Yield

The above QC measures were evaluated against the analytical method requirements and QC acceptance criteria. The data were validated based on guidance from the US EPA Region IV Data Validation SOPs, the referenced procedures, and were qualified as appropriate as described in the sections below.

Comments and Exceptions

1. The data validator applied qualification to combined radium-226+228 based upon the QC samples associated with the analyses of the individual isotopes, radium-226 and radium-228. The database only includes the laboratory results for the combined radium-226+228; therefore, qualification of the individual isotopes is not addressed in this QA review.

2. Combined radium-226+228 was reported as the summation of the calculated activities for radium-226 and radium-228. As consistent with routine radiological reporting conventions, negative activities were reported for the radium-226 and radium-228 analyses; however, all negative activities were entered as zero in the calculation of combined radium-226+228 activity.

3. The combined radium-226+228 sample-specific minimum detectable concentration (MDC) was reported as the summation of the MDCs for radium-226 and radium-228. Consequently, there may be instances where a detection was observed in one of the individual isotopes but the combined radium-226+228 result was reported as “not-detected” due to the laboratory’s reporting convention for combined radium-226+228.

4. The combined radium-226+228 result uncertainty was reported using the routine statistical uncertainty reporting conventions as the root sum square (RSS; the square root of the sum of the squared individual uncertainties).

5. The following field duplicate pairs (see table) were submitted and analyzed for radiological parameters with this data set. Acceptable precision and sample representativeness were demonstrated by the reported results in the field duplicate pair evaluation (the replicate error ratio [RER] < 3), with any exceptions noted below.

Laboratory SDG	Sample	Field Duplicate
685521	MCM-DPZ-02	MCM-AP1-FD-02
685524	MCM-MCM-12	MCM-AP1-FD-01

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

Laboratory SDG(s)	Samples	Analyte	Qualifier	Reason for Qualification
685524	MCM-MCM-11	combined radium-226+228	U*	BE – equipment blank contamination
685519	MCM-MCM-06	combined radium-226+228	J	BL – Laboratory blank contamination
685521	MCM-MCM-05, MCM-MCM-07, and MCM-DPZ-02	combined radium-226+228	J	BL – Laboratory blank contamination
685524	MCM-MCM-04, MCM-MCM-11, MCM-MCM-12, and MCM-MCM-17	combined radium-226+228	J (unless previously flagged "U*")	L- – Low LCS recovery

- All radiological results reported below the MDC have been flagged "U."

Report prepared by: Wendy Zhou, Quality Assurance Chemist
Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist
Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
Date: 11/6/2024

INORGANIC DATA QUALIFIERS

U - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit.

U* - This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

UJ - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

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FG	Total versus dissolved imprecision.
H	Holding time exceeded.
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L	LCS and LCSD recoveries outside of acceptance limits, indeterminate bias.
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LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
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T	Temperature preservation issue.
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Y	Chemical yields outside of acceptance limits, indeterminate bias.
Y+	Chemical yield(s) outside of acceptance limits. The result may be biased high.
Y-	Chemical yield(s) outside of acceptance limits. The result may be biased low.
ZZ	Other

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/20/2024 1:32:17 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 3-Week Sept

JOB NUMBER

680-255934-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Qualifiers

General Chemistry

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.
¤	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
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255934-1	MCM-INW-01	Water	09/12/24 12:10	09/13/24 10:12
680-255934-2	MCM-MCM-06	Water	09/12/24 10:12	09/13/24 10:12
680-255934-3	MCM-PT-01	Water	09/12/24 11:57	09/13/24 10:12
680-255934-4	MCM-PT-02	Water	09/12/24 14:31	09/13/24 10:12
680-255934-5	MCM-PT-03	Water	09/12/24 13:50	09/13/24 10:12
680-255934-6	MCM-DR-01	Water	09/12/24 13:24	09/13/24 10:12
680-255934-7	MCM-DR-02	Water	09/12/24 15:08	09/13/24 10:12
680-255934-8	MCM-DR-03	Water	09/12/24 10:47	09/13/24 10:12
680-255934-9	MCM-AP1-FD-01	Water	09/12/24 00:00	09/13/24 10:12
680-255934-10	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 10:12
680-255934-11	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 10:12

Job ID: 680-255934-1 Eurofins Savannah

Job Narrative
680-255934-1

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 9/13/2024 10:12 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 4.1°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.8		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	47		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	25		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	27		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**11**		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**24**		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-856653/1
Matrix: Water
Analysis Batch: 856653

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/19/24 11:23	1

Lab Sample ID: LCS 680-856653/2
Matrix: Water
Analysis Batch: 856653

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.80		mg/L		98	75 - 125		

Lab Sample ID: LCSD 680-856653/3
Matrix: Water
Analysis Batch: 856653

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
Sulfide			10.0	9.75		mg/L		98	75 - 125	0	30

Lab Sample ID: 680-255934-2 MS
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125		

Lab Sample ID: 680-255934-2 MSD
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125	0	30

Lab Sample ID: 680-255934-1 DU
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.8			2.68		mg/L				5	30

QC Association Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

General Chemistry

Analysis Batch: 856653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255934-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-255934-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255934-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255934-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255934-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255934-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255934-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255934-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255934-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255934-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-856653/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-856653/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-856653/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	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
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

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

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 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laskar (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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)
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			Other:
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 3-Week Sampling September 2024	Project #:			
Site:	SSOW#:			

680-255934 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total	Task_Code: MCM-CCR-CA-20240909 / Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	9/12/24	1210	G	WG	N		X	2	
MCM-MCM-06	9/12/24	1012	G	WG	N		X	2	
MCM-PT-01	9/12/24	1157	G	WG	N		X	2	
MCM-PT-02	9/12/24	1431	G	WG	N		X	2	
MCM-PT-03	9/12/24	1350	G	WG	N		X	2	
MCM-DR-01	9/12/24	1324	G	WG	N		X	2	
MCM-DR-02	9/12/24	1558	G	WG	N		X	2	
MCM-DR-03	9/12/24	1047	G	WG	N		X	2	
MCM-AP1-FD-01	9/12/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	9/12/24	1310	G	WQ	N		X	2	
MCM-AP1-EB-01	9/12/24	1314	G	WQ	N		X	2	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological	Return To Client, Disposal By Lab, 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:	Date/Time:	Company	Received by:	Date/Time:	Company
FedEx 9/12/24 1640					
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	9/13/24 1012	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1/4.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255934-1

Login Number: 255934

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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	

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: Jay Siewert

Field Conditions: 84°/70°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0727	Time Finish	0742		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.38	22.83	± 10%	NA
Specific Conductance (µS/cm)	4,490	4479.2	22.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.19	± 0.1	GWMP
pH (SU)	7.00	7.02	23.57	± 0.1	GWMP
pH (SU)	10.00	10.00	23.49	± 0.1	GWMP
ORP (mV)	228.0	226.3	23.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.91		

Calibration Check					
Time Start	1529	Time Finish	1540		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4431.9	28.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	28.52	± 0.1	GWMP
pH (SU)	7.00	7.10	28.19	± 0.1	GWMP
pH (SU)	10.00	10.07	28.52	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	9.79		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: Jay Stuart

Field Conditions: 84°/76°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24006587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0818	Time Finish	0827		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	96.14	26.00	± 10%	NA
Specific Conductance (µS/cm)	4,490	4454.9	26.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	26.15	± 0.1	GWMP
pH (SU)	7.00	7.00	26.03	± 0.1	GWMP
pH (SU)	10.00	10.02	26.07	± 0.1	GWMP
ORP (mV)	228.0	223.6	25.85	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.81		

Calibration Check					
Time Start	1623	Time Finish	~~1627~~ 1630		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4314.9	26.50	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.48	± 0.1	GWMP
pH (SU)	7.00	7.06	26.51	± 0.1	GWMP
pH (SU)	10.00	10.10	26.93	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.04		

Notes:

Field Instrumentation Calibration Form

Site Name: McManus

Date: 9/12/24

Calibrated By: Jay Siewert

Field Conditions: 84°/76°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0818	**Time Finish**	0829		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.67	25.53	± 10%	NA
Specific Conductance (µS/cm)	4,490	4508.3	25.53	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.54	± 0.1	GWMP
pH (SU)	7.00	7.01	25.34 ~~25.53~~	± 0.1	GWMP
pH (SU)	10.00	10.00	25.38	± 0.1	GWMP
ORP (mV)	228.0	228.0	25.33	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.85		

Calibration Check					
Time Start	1635	**Time Finish**	1642		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4456.4	26.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.32	± 0.1	GWMP
pH (SU)	7.00	7.06	26.15	± 0.1	GWMP
pH (SU)	10.00	9.95	25.99	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.77		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: KDMS

Field Conditions: 82°/72°, 20%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	9429 - 4417

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1238	Time Finish	1254		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	98.59	26.05	± 10%	NA
Specific Conductance (µS/cm)	4,490	4472.9	26.67	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	26.80	± 0.1	GWMP
pH (SU)	7.00	7.05	26.56	± 0.1	GWMP
pH (SU)	10.00	10.04	26.43	± 0.1	GWMP
ORP (mV)	228.0	227.4	25.85	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.23		

Calibration Check					
Time Start	1554	Time Finish	1613		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4438.1	27.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	27.09	± 0.1	GWMP
pH (SU)	7.00	7.06	27.09	± 0.1	GWMP
pH (SU)	10.00	10.06	27.17	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.22		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: KMS

Field Conditions: 81°F 35°C 90

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10802933
Turbidity Meter	LaMotte 2020	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0924	Time Finish	0940		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.66	25.67	± 10%	NA
Specific Conductance (µS/cm)	4,490	4477.0	25.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.64	± 0.1	GWMP
pH (SU)	7.00	6.97	25.54	± 0.1	GWMP
pH (SU)	10.00	9.97	25.48	± 0.1	GWMP
ORP (mV)	228.0	227.7	25.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.27		

Calibration Check					
Time Start	1628	Time Finish	1638		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,463.9	25.84	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	25.83	± 0.1	GWMP
pH (SU)	7.00	7.10	25.85	± 0.1	GWMP
pH (SU)	10.00	10.12	25.87	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	9.47		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 9/10/24

Calibrated By: Natalie Piparo

Field Conditions: L 70° / H 83°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10802297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration

Time Start	7:23	Time Finish	7:35		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.84	22.97	± 10%	NA
Specific Conductance (µS/cm)	4,490	3924.9	22.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	23.05	± 0.1	GWMP
pH (SU)	7.00	7.02	23.08	± 0.1	GWMP
pH (SU)	10.00	10.04	23.14	± 0.1	GWMP
ORP (mV)	228.0	230.5	23.15	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.21		

Calibration Check

Time Start	15:54	Time Finish	15:58		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4453.6	26.95	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	26.93	± 0.1	GWMP
pH (SU)	7.00	7.14	27.00	± 0.1	GWMP
pH (SU)	10.00	~~10.03~~ 10.05	27.29	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.02		

Notes:

Site Name: Plant McKamey

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: Natalie Piparo

Field Conditions: H 82 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	16860297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010043	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004998	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:17	Time Finish	8:32		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	103.64	25.37	± 10%	NA
Specific Conductance (µS/cm)	4,490	4316.4	25.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	25.37	± 0.1	GWMP
pH (SU)	7.00	7.11	25.95	± 0.1	GWMP
pH (SU)	10.00	9.96	25.16	± 0.1	GWMP
ORP (mV)	228.0	224.9	24.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	10.08		

Calibration Check					
Time Start	16:26	Time Finish	16:37		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4660.5	25.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	25.71	± 0.1	GWMP
pH (SU)	7.00	7.09	25.82	± 0.1	GWMP
pH (SU)	10.00	10.11	26.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.95		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/12/24

Calibrated By: Natalie Piparo

Field Conditions: H 83 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc

Calibration					
Time Start	8:19	Time Finish	8:34		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.61	25.04	± 10%	NA
Specific Conductance (µS/cm)	4,490	4701.9	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	25.04	± 0.1	GWMP
pH (SU)	7.00	6.92	24.93	± 0.1	GWMP
pH (SU)	10.00	9.99	24.85	± 0.1	GWMP
ORP (mV)	228.0	228.8	24.81	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	10.09		

Calibration Check					
Time Start	16:42	Time Finish	16:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4510.5	25.66	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.66	± 0.1	GWMP
pH (SU)	7.00	7.16	25.58	± 0.1	GWMP
pH (SU)	10.00	10.17	25.41	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.17		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: William Looker

Field Conditions: 84°/70° partly sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789301
Turbidity Meter	LaMotte 2020	2068 - 0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Ex iration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	11:02	Time Finish	11:10		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	103.23	25.70	± 10%	NA
Specific Conductance (µS/cm)	4,490	4446.7	25.47	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	25.65	± 0.1	GWMP
pH (SU)	7.00	7.02	25.24	± 0.1	GWMP
pH (SU)	10.00	~~9.9~~ 10.01	25.05	± 0.1	GWMP
ORP (mV)	228.0	222.7	25.10	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	9.46		

Calibration Check					
Time Start	15:53	Time Finish	15:59		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491.5	28.10	± 10% of standard	EPA 2023
pH (SU)	4.00	3.95	28.08	± 0.1	GWMP
pH (SU)	7.00	7.14	29.29	± 0.1	GWMP
pH (SU)	10.00	10.12	31.33	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.61		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: William Laaker

Field Conditions: 84°/76° cloudy 70% rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789301
Turbidity Meter	LaMotte 2020	2068 - 0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:13	Time Finish	8:21		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.62	25.14	± 10%	NA
Specific Conductance (µS/cm)	4,490	4552.3	25.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.46	± 0.1	GWMP
pH (SU)	7.00	6.98	25.51	± 0.1	GWMP
pH (SU)	10.00	10.01	25.53	± 0.1	GWMP
ORP (mV)	228.0	225.5	25.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.37		

Calibration Check					
Time Start	16:02	Time Finish	16:07		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4475.0	25.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	25.32	± 0.1	GWMP
pH (SU)	7.00	7.14	25.35	± 0.1	GWMP
pH (SU)	10.00	10.17	25.42	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	9.70		

Notes:

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:36:05 PM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.44 ft** **Total Depth: 27.44 ft** **Initial Depth to Water: 8.49 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.44 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: -0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/10/2024 12:36 PM	00:00	6.11 pH	25.25 °C	9,734.6 µS/cm	0.03 mg/L	2.23 NTU	31.9 mV	8.51 ft	5.55 PSU	230.00 ml/min
9/10/2024 12:41 PM	05:00	6.11 pH	25.18 °C	9,909.1 µS/cm	0.03 mg/L	3.46 NTU	-58.1 mV	8.51 ft	5.66 PSU	230.00 ml/min
9/10/2024 12:46 PM	10:00	6.11 pH	25.17 °C	9,950.7 µS/cm	0.04 mg/L	3.85 NTU	57.6 mV	8.48 ft	5.68 PSU	230.00 ml/min
9/10/2024 12:51 PM	15:00	6.10 pH	25.28 °C	10,012 µS/cm	0.03 mg/L	2.75 NTU	59.4 mV	8.44 ft	5.72 PSU	230.00 ml/min
9/10/2024 12:56 PM	20:00	6.11 pH	25.33 °C	10,047 µS/cm	0.03 mg/L	2.73 NTU	59.7 mV	8.43 ft	5.74 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-17	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:53:21 PM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19 ft** **Total Depth: 29 ft** **Initial Depth to Water: 8.05 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/10/2024 12:53 PM	00:00	6.44 pH	25.23 °C	1,884.5 µS/cm	0.03 mg/L	2.81 NTU	-3.9 mV	9.82 ft	0.97 PSU	200.00 ml/min
9/10/2024 12:58 PM	05:00	6.44 pH	25.36 °C	1,890.4 µS/cm	0.01 mg/L	3.21 NTU	-28.6 mV	9.92 ft	0.97 PSU	200.00 ml/min
9/10/2024 1:03 PM	10:00	6.45 pH	25.30 °C	1,893.7 µS/cm	0.00 mg/L	3.30 NTU	-51.9 mV	10.04 ft	0.97 PSU	200.00 ml/min
9/10/2024 1:08 PM	15:00	6.45 pH	25.15 °C	1,897.4 µS/cm	-0.01 mg/L	3.20 NTU	-59.1 mV	10.12 ft	0.98 PSU	200.00 ml/min
9/10/2024 1:13 PM	20:00	6.44 pH	25.12 °C	1,901.9 µS/cm	-0.01 mg/L	2.76 NTU	-64.3 mV	10.18 ft	0.98 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-12	Metals, Inorganics, TDS, Radium
FD-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:58:14 PM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 3.63 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/10/2024 12:58 PM	00:00	5.18 pH	30.17 °C	139.49 µS/cm	0.45 mg/L	4.62 NTU	33.2 mV	4.89 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:03 PM	05:00	5.18 pH	27.84 °C	144.08 µS/cm	0.19 mg/L	2.15 NTU	20.9 mV	4.99 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:08 PM	10:00	5.17 pH	27.51 °C	144.31 µS/cm	0.14 mg/L	2.10 NTU	22.3 mV	5.02 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:13 PM	15:00	5.18 pH	27.24 °C	145.59 µS/cm	0.15 mg/L	2.11 NTU	27.7 mV	5.04 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:18 PM	20:00	5.18 pH	27.42 °C	147.82 µS/cm	0.17 mg/L	2.48 NTU	34.9 mV	5.06 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:23 PM	25:00	5.19 pH	26.99 °C	149.06 µS/cm	0.20 mg/L	2.30 NTU	43.3 mV	5.09 ft	0.07 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-11	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 1:12:53 PM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: MCM-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.57 ft** **Total Depth: 28.57 ft** **Initial Depth to Water: 7.9 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.57 ft** **Estimated Total Volume Pumped: 5600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 4 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/10/2024 1:12 PM	00:00	5.18 pH	22.86 °C	604.06 µS/cm	0.07 mg/L	1.27 NTU	153.8 mV	8.16 ft	0.30 PSU	280.00 ml/min
9/10/2024 1:17 PM	05:00	5.09 pH	22.56 °C	598.90 µS/cm	0.03 mg/L	0.92 NTU	149.1 mV	8.15 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:22 PM	10:00	5.09 pH	22.49 °C	599.65 µS/cm	0.01 mg/L	1.34 NTU	170.4 mV	8.15 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:27 PM	15:00	5.09 pH	22.57 °C	598.40 µS/cm	-0.00 mg/L	0.68 NTU	169.9 mV	8.13 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:32 PM	20:00	5.10 pH	22.54 °C	596.85 µS/cm	-0.01 mg/L	1.11 NTU	168.7 mV	8.14 ft	0.29 PSU	280.00 ml/min

Samples

Sample ID:	Description:
MCM-04	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:28:33 AM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.86 ft** **Total Depth: 27.86 ft** **Initial Depth to Water: 4.93 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.86 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 9:28 AM	00:00	4.04 pH	23.51 °C	3,179.7 µS/cm	0.25 mg/L	0.08 NTU	154.8 mV	5.17 ft	1.68 PSU	200.00 ml/min
9/11/2024 9:33 AM	05:00	4.04 pH	23.30 °C	3,137.8 µS/cm	0.18 mg/L	0.20 NTU	164.6 mV	5.19 ft	1.66 PSU	200.00 ml/min
9/11/2024 9:38 AM	10:00	4.04 pH	23.27 °C	3,101.4 µS/cm	0.13 mg/L	0.18 NTU	167.0 mV	5.20 ft	1.64 PSU	200.00 ml/min
9/11/2024 9:43 AM	15:00	4.04 pH	23.28 °C	3,123.0 µS/cm	0.10 mg/L	0.20 NTU	168.2 mV	5.21 ft	1.65 PSU	200.00 ml/min
9/11/2024 9:48 AM	20:00	4.04 pH	23.27 °C	3,087.8 µS/cm	0.09 mg/L	0.15 NTU	169.0 mV	5.22 ft	1.63 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-18	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:34:11 AM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.32 ft** **Total Depth: 27.32 ft** **Initial Depth to Water: 3.5 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.32 ft** **Estimated Total Volume Pumped: 7175 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 205 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 9:34 AM	00:00	4.98 pH	24.47 °C	146.71 µS/cm	0.43 mg/L	14.30 NTU	139.5 mV	3.55 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:39 AM	05:00	4.97 pH	24.85 °C	147.28 µS/cm	0.19 mg/L	12.54 NTU	120.1 mV	3.56 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:44 AM	10:00	4.98 pH	24.73 °C	148.13 µS/cm	0.14 mg/L	9.00 NTU	117.8 mV	3.56 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:49 AM	15:00	4.98 pH	24.81 °C	149.49 µS/cm	0.11 mg/L	6.04 NTU	109.1 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:54 AM	20:00	5.00 pH	24.82 °C	147.10 µS/cm	0.10 mg/L	5.22 NTU	101.4 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:59 AM	25:00	4.99 pH	24.67 °C	148.19 µS/cm	0.10 mg/L	3.78 NTU	86.7 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 10:04 AM	30:00	5.00 pH	24.67 °C	149.04 µS/cm	0.09 mg/L	2.92 NTU	88.2 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 10:09 AM	35:00	5.01 pH	24.75 °C	150.09 µS/cm	0.09 mg/L	2.31 NTU	84.1 mV	3.57 ft	0.07 PSU	205.00 ml/min

Samples

Sample ID:	Description:
MCM-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:44:54 AM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: DPZ-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 38.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 7.72 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 40.96 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 5 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/11/2024 9:44 AM	00:00	7.39 pH	24.52 °C	14,080 µS/cm	0.06 mg/L	0.82 NTU	-314.8 mV	7.98 ft	8.27 PSU	240.00 ml/min
9/11/2024 9:49 AM	05:00	7.25 pH	24.40 °C	14,119 µS/cm	0.04 mg/L	0.14 NTU	-353.0 mV	7.98 ft	8.29 PSU	240.00 ml/min
9/11/2024 9:54 AM	10:00	7.21 pH	24.35 °C	14,118 µS/cm	0.04 mg/L	0.26 NTU	-352.3 mV	7.98 ft	8.29 PSU	240.00 ml/min
9/11/2024 9:59 AM	15:00	7.21 pH	24.25 °C	14,134 µS/cm	0.03 mg/L	0.04 NTU	-354.9 mV	7.98 ft	8.30 PSU	240.00 ml/min
9/11/2024 10:04 AM	20:00	7.20 pH	24.18 °C	14,412 µS/cm	0.03 mg/L	0.00 NTU	-354.6 mV	7.98 ft	8.48 PSU	240.00 ml/min
9/11/2024 10:09 AM	25:00	7.18 pH	24.20 °C	15,366 µS/cm	0.03 mg/L	0.11 NTU	-354.1 mV	7.97 ft	9.08 PSU	240.00 ml/min
9/11/2024 10:14 AM	30:00	7.18 pH	24.26 °C	15,531 µS/cm	0.02 mg/L	0.05 NTU	-354.2 mV	7.97 ft	9.19 PSU	240.00 ml/min
9/11/2024 10:19 AM	35:00	7.18 pH	24.22 °C	15,589 µS/cm	0.02 mg/L	0.01 NTU	-354.2 mV	7.97 ft	9.23 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DPZ-02	Metals, Inorganics, TDS, Radium
FD-02	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:46:10 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.75 ft** **Total Depth: 23.75 ft** **Initial Depth to Water: 7.36 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 18.75 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 9:46 AM	00:00	6.50 pH	25.43 °C	7,980.9 µS/cm	0.27 mg/L	0.94 NTU	-100.9 mV	7.96 ft	4.48 PSU	200.00 ml/min
9/11/2024 9:51 AM	05:00	6.51 pH	25.35 °C	8,590.9 µS/cm	0.16 mg/L	0.58 NTU	-160.1 mV	7.99 ft	4.85 PSU	200.00 ml/min
9/11/2024 9:56 AM	10:00	6.52 pH	25.36 °C	8,717.2 µS/cm	0.12 mg/L	0.44 NTU	-187.3 mV	8.00 ft	4.93 PSU	200.00 ml/min
9/11/2024 10:01 AM	15:00	6.52 pH	25.32 °C	8,788.2 µS/cm	0.11 mg/L	0.28 NTU	-160.7 mV	8.02 ft	4.97 PSU	200.00 ml/min
9/11/2024 10:06 AM	20:00	6.53 pH	25.31 °C	8,838.0 µS/cm	0.10 mg/L	1.07 NTU	-164.4 mV	8.03 ft	5.00 PSU	200.00 ml/min
9/11/2024 10:11 AM	25:00	6.53 pH	25.28 °C	8,876.8 µS/cm	0.08 mg/L	1.03 NTU	-219.3 mV	8.02 ft	5.03 PSU	200.00 ml/min
9/11/2024 10:16 AM	30:00	6.53 pH	25.35 °C	8,921.8 µS/cm	0.08 mg/L	0.95 NTU	-224.7 mV	8.04 ft	5.05 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-07	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 10:42:34 AM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.32 ft** **Total Depth: 28.32 ft** **Initial Depth to Water: 6.34 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.32 ft** **Estimated Total Volume Pumped: 7350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 10:42 AM	00:00	4.61 pH	23.54 °C	18,140 µS/cm	0.27 mg/L	6.71 NTU	162.2 mV	6.58 ft	10.88 PSU	210.00 ml/min
9/11/2024 10:47 AM	05:00	4.65 pH	23.43 °C	18,457 µS/cm	0.18 mg/L	3.65 NTU	166.6 mV	6.57 ft	11.08 PSU	210.00 ml/min
9/11/2024 10:52 AM	10:00	4.64 pH	23.44 °C	17,526 µS/cm	0.13 mg/L	2.72 NTU	166.5 mV	6.57 ft	10.48 PSU	210.00 ml/min
9/11/2024 10:57 AM	15:00	4.63 pH	23.35 °C	16,880 µS/cm	0.10 mg/L	1.53 NTU	166.6 mV	6.57 ft	10.06 PSU	210.00 ml/min
9/11/2024 11:02 AM	20:00	4.63 pH	23.36 °C	16,528 µS/cm	0.08 mg/L	0.63 NTU	166.5 mV	6.57 ft	9.83 PSU	210.00 ml/min
9/11/2024 11:07 AM	25:00	4.62 pH	23.39 °C	16,234 µS/cm	0.08 mg/L	0.94 NTU	166.8 mV	6.57 ft	9.64 PSU	210.00 ml/min
9/11/2024 11:12 AM	30:00	4.62 pH	23.36 °C	15,846 µS/cm	0.07 mg/L	0.41 NTU	166.9 mV	6.56 ft	9.39 PSU	210.00 ml/min
9/11/2024 11:17 AM	35:00	4.61 pH	23.34 °C	15,867 µS/cm	0.07 mg/L	0.35 NTU	166.9 mV	6.55 ft	9.40 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-19	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 11:27:30 AM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.39 ft** **Total Depth: 28.39 ft** **Initial Depth to Water: 7.73 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.39 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 11:27 AM	00:00	5.57 pH	22.52 °C	122.27 µS/cm	0.12 mg/L	0.57 NTU	71.1 mV	7.85 ft	0.06 PSU	240.00 ml/min
9/11/2024 11:32 AM	05:00	5.54 pH	22.83 °C	117.40 µS/cm	0.08 mg/L	0.31 NTU	62.0 mV	7.86 ft	0.06 PSU	240.00 ml/min
9/11/2024 11:37 AM	10:00	5.49 pH	22.78 °C	116.12 µS/cm	0.08 mg/L	0.13 NTU	56.8 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:42 AM	15:00	5.46 pH	22.83 °C	114.76 µS/cm	0.07 mg/L	0.10 NTU	53.5 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:47 AM	20:00	5.43 pH	22.74 °C	114.17 µS/cm	0.07 mg/L	0.05 NTU	51.2 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:52 AM	25:00	5.41 pH	22.73 °C	114.09 µS/cm	0.07 mg/L	0.02 NTU	49.7 mV	7.87 ft	0.05 PSU	240.00 ml/min

Samples

Sample ID:	Description:
MCM-16	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 11:44:15 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.05 ft** **Total Depth: 28.05 ft** **Initial Depth to Water: 7.33 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.05 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 11:44 AM	00:00	6.94 pH	25.88 °C	6,679.1 µS/cm	0.30 mg/L	0.50 NTU	-229.2 mV	7.26 ft	3.71 PSU	225.00 ml/min
9/11/2024 11:49 AM	05:00	6.95 pH	25.11 °C	6,642.1 µS/cm	0.22 mg/L	0.25 NTU	-235.3 mV	7.24 ft	3.68 PSU	225.00 ml/min
9/11/2024 11:54 AM	10:00	6.95 pH	24.91 °C	6,683.6 µS/cm	0.15 mg/L	0.13 NTU	-296.4 mV	7.25 ft	3.71 PSU	225.00 ml/min
9/11/2024 11:59 AM	15:00	6.95 pH	24.86 °C	6,667.2 µS/cm	0.07 mg/L	0.09 NTU	-304.0 mV	7.22 ft	3.70 PSU	225.00 ml/min
9/11/2024 12:04 PM	20:00	6.94 pH	24.82 °C	6,650.5 µS/cm	0.06 mg/L	0.10 NTU	-304.1 mV	7.18 ft	3.69 PSU	225.00 ml/min
9/11/2024 12:09 PM	25:00	6.94 pH	24.78 °C	6,658.9 µS/cm	0.06 mg/L	0.11 NTU	-243.2 mV	7.16 ft	3.69 PSU	225.00 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:30:06 PM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: MCM-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.35 ft** **Total Depth: 27.35 ft** **Initial Depth to Water: 3.24 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.35 ft** **Estimated Total Volume Pumped: 10400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 9 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/11/2024 2:30 PM	00:00	5.83 pH	23.28 °C	150.80 µS/cm	0.19 mg/L	0.94 NTU	-27.7 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:35 PM	05:00	5.65 pH	22.45 °C	161.27 µS/cm	0.08 mg/L	1.08 NTU	-16.8 mV	3.48 ft	0.08 PSU	260.00 ml/min
9/11/2024 2:40 PM	10:00	5.59 pH	22.37 °C	156.04 µS/cm	0.05 mg/L	0.57 NTU	-30.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:45 PM	15:00	5.57 pH	22.36 °C	152.42 µS/cm	0.03 mg/L	0.35 NTU	-29.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:50 PM	20:00	5.52 pH	22.35 °C	147.29 µS/cm	0.03 mg/L	0.18 NTU	-23.1 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:55 PM	25:00	5.48 pH	22.40 °C	145.13 µS/cm	0.02 mg/L	0.24 NTU	1.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:00 PM	30:00	5.48 pH	22.44 °C	144.83 µS/cm	0.02 mg/L	0.15 NTU	2.0 mV	3.47 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:05 PM	35:00	5.46 pH	22.45 °C	144.64 µS/cm	0.02 mg/L	0.28 NTU	3.6 mV	3.47 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:10 PM	40:00	5.43 pH	22.45 °C	144.48 µS/cm	0.02 mg/L	0.20 NTU	4.1 mV	3.47 ft	0.07 PSU	260.00 ml/min

Samples

Sample ID:	Description:
MCM-02	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:51:18 PM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.05 ft** **Total Depth: 23.05 ft** **Initial Depth to Water: 5.79 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.05 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 2:51 PM	00:00	3.59 pH	24.10 °C	14,991 µS/cm	0.31 mg/L	0.20 NTU	197.1 mV	6.27 ft	8.84 PSU	200.00 ml/min
9/11/2024 2:56 PM	05:00	3.59 pH	23.97 °C	14,919 µS/cm	0.23 mg/L	0.30 NTU	193.7 mV	6.29 ft	8.80 PSU	200.00 ml/min
9/11/2024 3:01 PM	10:00	3.58 pH	23.96 °C	14,801 µS/cm	0.17 mg/L	0.19 NTU	192.7 mV	6.29 ft	8.72 PSU	200.00 ml/min
9/11/2024 3:06 PM	15:00	3.58 pH	23.95 °C	14,617 µS/cm	0.14 mg/L	0.30 NTU	191.3 mV	6.28 ft	8.61 PSU	200.00 ml/min
9/11/2024 3:11 PM	20:00	3.58 pH	23.95 °C	14,579 µS/cm	0.11 mg/L	0.05 NTU	190.4 mV	6.26 ft	8.58 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-20	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:59:59 PM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 26.6 ft** **Initial Depth to Water: 7.68 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 21.6 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 2:59 PM	00:00	5.08 pH	24.96 °C	56.75 µS/cm	0.77 mg/L	1.47 NTU	17.0 mV	7.72 ft	0.03 PSU	200.00 ml/min
9/11/2024 3:04 PM	05:00	5.05 pH	24.86 °C	54.74 µS/cm	0.44 mg/L	0.97 NTU	21.1 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:09 PM	10:00	5.03 pH	24.77 °C	53.65 µS/cm	0.33 mg/L	1.35 NTU	18.6 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:14 PM	15:00	5.02 pH	24.72 °C	53.06 µS/cm	0.24 mg/L	1.27 NTU	22.4 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:19 PM	20:00	5.01 pH	24.66 °C	52.81 µS/cm	0.19 mg/L	1.32 NTU	23.1 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:24 PM	25:00	5.00 pH	24.69 °C	52.65 µS/cm	0.18 mg/L	1.37 NTU	24.2 mV	7.73 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:29 PM	30:00	4.99 pH	24.68 °C	52.66 µS/cm	0.16 mg/L	1.34 NTU	25.1 mV	7.73 ft	0.02 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-15	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 3:09:06 PM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.11 ft** **Total Depth: 28.11 ft** **Initial Depth to Water: 7.79 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.11 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L
Water has strong sulfur odor.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 3:09 PM	00:00	6.83 pH	24.84 °C	4,848.3 µS/cm	0.19 mg/L	0.10 NTU	-164.6 mV	7.80 ft	2.63 PSU	220.00 ml/min
9/11/2024 3:14 PM	05:00	6.67 pH	25.03 °C	4,818.3 µS/cm	0.12 mg/L	0.09 NTU	-224.2 mV	7.80 ft	2.62 PSU	220.00 ml/min
9/11/2024 3:19 PM	10:00	6.66 pH	25.12 °C	4,807.0 µS/cm	0.09 mg/L	0.06 NTU	-244.0 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:24 PM	15:00	6.66 pH	25.08 °C	4,811.0 µS/cm	0.08 mg/L	0.14 NTU	-258.9 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:29 PM	20:00	6.66 pH	25.12 °C	4,805.8 µS/cm	0.08 mg/L	0.10 NTU	-268.3 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:34 PM	25:00	6.66 pH	25.12 °C	4,804.6 µS/cm	0.08 mg/L	0.04 NTU	-274.1 mV	7.80 ft	2.61 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-14	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:42:25 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 9:42 AM	00:00	7.03 pH	24.20 °C	10,234 µS/cm	0.05 mg/L	0.38 NTU	-225.3 mV	8.31 ft	5.86 PSU	230.00 ml/min
9/12/2024 9:47 AM	05:00	7.14 pH	23.99 °C	10,410 µS/cm	0.03 mg/L	0.39 NTU	-320.6 mV	8.33 ft	5.96 PSU	230.00 ml/min
9/12/2024 9:52 AM	10:00	7.16 pH	23.92 °C	10,349 µS/cm	0.02 mg/L	0.32 NTU	-324.8 mV	8.33 ft	5.93 PSU	230.00 ml/min
9/12/2024 9:57 AM	15:00	7.18 pH	23.90 °C	10,253 µS/cm	0.02 mg/L	0.37 NTU	-327.0 mV	8.34 ft	5.87 PSU	230.00 ml/min
9/12/2024 10:02 AM	20:00	7.19 pH	23.87 °C	10,158 µS/cm	0.01 mg/L	0.45 NTU	-252.6 mV	8.35 ft	5.81 PSU	230.00 ml/min
9/12/2024 10:07 AM	25:00	7.20 pH	23.85 °C	10,135 µS/cm	0.01 mg/L	0.27 NTU	-254.5 mV	8.35 ft	5.80 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:42:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 9:42 AM	00:00	7.03 pH	24.20 °C	10,234 µS/cm	0.05 mg/L	0.38 NTU	-225.3 mV	8.31 ft	5.86 PSU	230.00 ml/min
9/12/2024 9:47 AM	05:00	7.14 pH	23.99 °C	10,410 µS/cm	0.03 mg/L	0.39 NTU	-320.6 mV	8.33 ft	5.96 PSU	230.00 ml/min
9/12/2024 9:52 AM	10:00	7.16 pH	23.92 °C	10,349 µS/cm	0.02 mg/L	0.32 NTU	-324.8 mV	8.33 ft	5.93 PSU	230.00 ml/min
9/12/2024 9:57 AM	15:00	7.18 pH	23.90 °C	10,253 µS/cm	0.02 mg/L	0.37 NTU	-327.0 mV	8.34 ft	5.87 PSU	230.00 ml/min
9/12/2024 10:02 AM	20:00	7.19 pH	23.87 °C	10,158 µS/cm	0.01 mg/L	0.45 NTU	-252.6 mV	8.35 ft	5.81 PSU	230.00 ml/min
9/12/2024 10:07 AM	25:00	7.20 pH	23.85 °C	10,135 µS/cm	0.01 mg/L	0.27 NTU	-254.5 mV	8.35 ft	5.80 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:55:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.72 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 9950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 9:55 AM	00:00	6.62 pH	24.94 °C	7,226.8 µS/cm	0.13 mg/L	15.90 NTU	-143.4 mV	5.83 ft	4.03 PSU	230.00 ml/min
9/12/2024 10:00 AM	05:00	6.65 pH	25.08 °C	7,247.9 µS/cm	0.08 mg/L	13.20 NTU	-153.3 mV	5.84 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:05 AM	10:00	6.67 pH	25.14 °C	7,249.7 µS/cm	0.06 mg/L	11.20 NTU	-154.8 mV	5.85 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:10 AM	15:00	6.68 pH	25.10 °C	7,251.5 µS/cm	0.05 mg/L	12.20 NTU	-156.4 mV	5.86 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:15 AM	20:00	6.70 pH	25.06 °C	7,260.8 µS/cm	0.04 mg/L	12.50 NTU	-157.4 mV	5.87 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:20 AM	25:00	6.71 pH	25.11 °C	7,242.8 µS/cm	0.03 mg/L	14.90 NTU	-159.1 mV	5.88 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:25 AM	30:00	6.72 pH	25.15 °C	7,247.6 µS/cm	0.02 mg/L	11.75 NTU	-160.8 mV	5.89 ft	4.04 PSU	210.00 ml/min
9/12/2024 10:30 AM	35:00	6.72 pH	25.17 °C	7,261.8 µS/cm	0.02 mg/L	10.54 NTU	-161.0 mV	5.90 ft	4.05 PSU	200.00 ml/min
9/12/2024 10:35 AM	40:00	6.73 pH	25.25 °C	7,240.1 µS/cm	0.02 mg/L	8.94 NTU	-162.0 mV	5.90 ft	4.04 PSU	200.00 ml/min
9/12/2024 10:40 AM	45:00	6.73 pH	25.09 °C	7,259.5 µS/cm	0.02 mg/L	7.83 NTU	-163.2 mV	5.90 ft	4.05 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:25:18 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.89 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 6L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 11:25 AM	00:00	6.81 pH	25.87 °C	13,254 µS/cm	0.62 mg/L	1.50 NTU	-206.8 mV	5.85 ft	7.74 PSU	225.00 ml/min
9/12/2024 11:30 AM	05:00	6.82 pH	24.41 °C	13,492 µS/cm	0.07 mg/L	1.47 NTU	-285.3 mV	5.83 ft	7.89 PSU	225.00 ml/min
9/12/2024 11:35 AM	10:00	6.84 pH	24.27 °C	13,183 µS/cm	0.06 mg/L	1.16 NTU	-212.3 mV	5.82 ft	7.70 PSU	225.00 ml/min
9/12/2024 11:40 AM	15:00	6.87 pH	24.23 °C	12,963 µS/cm	0.05 mg/L	0.94 NTU	-289.2 mV	5.81 ft	7.56 PSU	225.00 ml/min
9/12/2024 11:45 AM	20:00	6.88 pH	24.20 °C	12,836 µS/cm	0.04 mg/L	0.65 NTU	-290.6 mV	5.80 ft	7.48 PSU	225.00 ml/min
9/12/2024 11:50 AM	25:00	6.87 pH	24.18 °C	12,904 µS/cm	0.04 mg/L	1.01 NTU	-291.3 mV	5.79 ft	7.52 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:40:13 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.59 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 3700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 185 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L. Orange purge water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 11:40 AM	00:00	6.31 pH	25.37 °C	17,442 µS/cm	0.21 mg/L	79.10 NTU	-81.9 mV	5.91 ft	10.43 PSU	185.00 ml/min
9/12/2024 11:45 AM	05:00	6.33 pH	25.76 °C	17,326 µS/cm	0.14 mg/L	74.20 NTU	-83.4 mV	5.98 ft	10.36 PSU	185.00 ml/min
9/12/2024 11:50 AM	10:00	6.34 pH	25.76 °C	17,320 µS/cm	0.10 mg/L	72.20 NTU	-86.5 mV	6.01 ft	10.35 PSU	185.00 ml/min
9/12/2024 11:55 AM	15:00	6.35 pH	25.78 °C	17,306 µS/cm	0.07 mg/L	67.30 NTU	-87.4 mV	6.01 ft	10.34 PSU	185.00 ml/min
9/12/2024 12:00 PM	20:00	6.36 pH	25.85 °C	17,284 µS/cm	0.06 mg/L	63.40 NTU	-88.3 mV	6.01 ft	10.33 PSU	185.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 12:44:08 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.85 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 6750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/12/2024 12:44 PM	00:00	6.64 pH	25.51 °C	14,517 µS/cm	0.25 mg/L	2.31 NTU	-217.7 mV	5.42 ft	8.55 PSU	225.00 ml/min
9/12/2024 12:49 PM	05:00	6.67 pH	24.95 °C	14,358 µS/cm	0.09 mg/L	0.76 NTU	-229.3 mV	5.39 ft	8.44 PSU	225.00 ml/min
9/12/2024 12:54 PM	10:00	6.73 pH	24.80 °C	13,988 µS/cm	0.06 mg/L	0.70 NTU	-303.1 mV	5.35 ft	8.21 PSU	225.00 ml/min
9/12/2024 12:59 PM	15:00	6.78 pH	24.66 °C	13,683 µS/cm	0.05 mg/L	0.57 NTU	-310.5 mV	5.32 ft	8.01 PSU	225.00 ml/min
9/12/2024 1:04 PM	20:00	6.79 pH	24.59 °C	13,554 µS/cm	0.05 mg/L	0.84 NTU	-261.8 mV	5.29 ft	7.93 PSU	225.00 ml/min
9/12/2024 1:09 PM	25:00	6.87 pH	24.50 °C	13,171 µS/cm	0.04 mg/L	0.87 NTU	-322.2 mV	5.23 ft	7.69 PSU	225.00 ml/min
9/12/2024 1:14 PM	30:00	6.89 pH	24.41 °C	13,006 µS/cm	0.04 mg/L	0.42 NTU	-279.2 mV	5.20 ft	7.59 PSU	225.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:09:04 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 5.24 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 6450 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: -0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 1:09 PM	00:00	6.98 pH	25.12 °C	9,935.5 µS/cm	0.03 mg/L	6.45 NTU	-288.2 mV	5.09 ft	5.67 PSU	215.00 ml/min
9/12/2024 1:14 PM	05:00	6.91 pH	25.53 °C	9,621.9 µS/cm	0.01 mg/L	6.20 NTU	-306.3 mV	5.05 ft	5.48 PSU	215.00 ml/min
9/12/2024 1:19 PM	10:00	6.86 pH	25.42 °C	9,507.7 µS/cm	0.00 mg/L	6.43 NTU	-317.2 mV	5.05 ft	5.41 PSU	215.00 ml/min
9/12/2024 1:24 PM	15:00	6.83 pH	25.40 °C	9,345.8 µS/cm	-0.01 mg/L	6.53 NTU	-329.3 mV	4.97 ft	5.31 PSU	215.00 ml/min
9/12/2024 1:29 PM	20:00	6.80 pH	25.39 °C	9,358.0 µS/cm	-0.01 mg/L	6.19 NTU	-339.6 mV	4.92 ft	5.32 PSU	215.00 ml/min
9/12/2024 1:34 PM	25:00	6.79 pH	25.27 °C	9,320.1 µS/cm	-0.01 mg/L	6.30 NTU	-347.2 mV	4.88 ft	5.30 PSU	215.00 ml/min
9/12/2024 1:39 PM	30:00	6.78 pH	25.21 °C	9,325.4 µS/cm	-0.02 mg/L	6.25 NTU	-352.7 mV	4.80 ft	5.30 PSU	215.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:56:18 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.96 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 8100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 270 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 1:56 PM	00:00	6.78 pH	25.73 °C	12,497 µS/cm	1.20 mg/L	1.70 NTU	-284.3 mV	4.96 ft	7.27 PSU	270.00 ml/min
9/12/2024 2:01 PM	05:00	6.67 pH	24.43 °C	12,483 µS/cm	0.05 mg/L	0.67 NTU	-357.2 mV	4.90 ft	7.26 PSU	270.00 ml/min
9/12/2024 2:06 PM	10:00	6.71 pH	24.30 °C	12,200 µS/cm	0.04 mg/L	0.53 NTU	-368.1 mV	4.87 ft	7.08 PSU	270.00 ml/min
9/12/2024 2:11 PM	15:00	6.78 pH	24.23 °C	11,821 µS/cm	0.03 mg/L	0.35 NTU	-404.1 mV	4.84 ft	6.84 PSU	270.00 ml/min
9/12/2024 2:16 PM	20:00	6.79 pH	24.19 °C	11,795 µS/cm	0.03 mg/L	0.30 NTU	-394.6 mV	4.79 ft	6.82 PSU	270.00 ml/min
9/12/2024 2:21 PM	25:00	6.82 pH	24.15 °C	11,530 µS/cm	0.02 mg/L	0.51 NTU	-400.7 mV	4.75 ft	6.66 PSU	270.00 ml/min
9/12/2024 2:26 PM	30:00	6.82 pH	24.14 °C	11,635 µS/cm	0.02 mg/L	0.29 NTU	-401.5 mV	4.71 ft	6.72 PSU	270.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 2:37:00 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.45 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 2:37 PM	00:00	7.83 pH	24.34 °C	9,145.2 µS/cm	0.11 mg/L	2.82 NTU	-360.1 mV	4.31 ft	5.19 PSU	200.00 ml/min
9/12/2024 2:42 PM	05:00	7.39 pH	24.67 °C	9,058.7 µS/cm	0.07 mg/L	2.37 NTU	-361.9 mV	4.30 ft	5.14 PSU	200.00 ml/min
9/12/2024 2:47 PM	10:00	7.39 pH	24.64 °C	9,082.1 µS/cm	0.04 mg/L	2.28 NTU	-366.9 mV	4.25 ft	5.15 PSU	200.00 ml/min
9/12/2024 2:52 PM	15:00	7.39 pH	24.67 °C	9,037.6 µS/cm	0.03 mg/L	2.82 NTU	-366.5 mV	4.22 ft	5.12 PSU	200.00 ml/min
9/12/2024 2:57 PM	20:00	7.38 pH	24.70 °C	9,054.2 µS/cm	0.02 mg/L	2.47 NTU	-368.9 mV	4.18 ft	5.13 PSU	200.00 ml/min
9/12/2024 3:02 PM	25:00	7.38 pH	24.67 °C	9,080.6 µS/cm	0.02 mg/L	2.35 NTU	-369.6 mV	4.12 ft	5.15 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

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April 07, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 715597

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 22, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Please see the attached email for sample receipt details*715597007(MCM-MCM-11), 715597012(MCM-MCM-17), 715597017(MCM-AP1-FD-01)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
715597001	MCM-MCM-01	Ground Water	03/18/25 17:47	03/22/25 09:20
715597002	MCM-MCM-02	Ground Water	03/20/25 15:10	03/22/25 09:20
715597003	MCM-MCM-04	Ground Water	03/20/25 14:42	03/22/25 09:20
715597004	MCM-MCM-05	Ground Water	03/19/25 14:35	03/22/25 09:20
715597005	MCM-MCM-06	Ground Water	03/19/25 12:43	03/22/25 09:20
715597006	MCM-MCM-07	Ground Water	03/19/25 10:52	03/22/25 09:20
715597007	MCM-MCM-11	Ground Water	03/18/25 17:30	03/22/25 09:20
715597008	MCM-MCM-12	Ground Water	03/17/25 17:25	03/22/25 09:20
715597009	MCM-MCM-14	Ground Water	03/17/25 16:30	03/22/25 09:20
715597010	MCM-MCM-15	Ground Water	03/20/25 17:24	03/22/25 09:20
715597011	MCM-MCM-16	Ground Water	03/20/25 16:53	03/22/25 09:20
715597012	MCM-MCM-17	Ground Water	03/18/25 10:36	03/22/25 09:20
715597013	MCM-MCM-18	Ground Water	03/19/25 15:44	03/22/25 09:20
715597014	MCM-MCM-19	Ground Water	03/19/25 11:49	03/22/25 09:20
715597015	MCM-MCM-20	Ground Water	03/19/25 13:27	03/22/25 09:20



715597016	MCM-DPZ-02	Ground Water	03/18/25 10:35	03/22/25 09:20
715597017	MCM-AP1-FD-01	Ground Water	03/18/25 12:00	03/22/25 09:20
715597018	MCM-AP1-FD-02	Ground Water	03/20/25 12:00	03/22/25 09:20
715597019	MCM-AP1-FB-01	Water	03/17/25 17:23	03/22/25 09:20
715597020	MCM-AP1-FB-02	Water	03/20/25 18:11	03/22/25 09:20
715597021	MCM-AP1-EB-01	Water	03/17/25 17:34	03/22/25 09:20
715597022	MCM-AP1-EB-02	Water	03/20/25 18:01	03/22/25 09:20

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-MAR-2025
SW846 7470A Prep	01-APR-2025
SW846 7470A Prep	31-MAR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	22-MAR-2025
EPA 300.0	23-MAR-2025
EPA 300.0	25-MAR-2025
SM 2540C	24-MAR-2025
SM 2540C	25-MAR-2025
SM 2540C	26-MAR-2025
SM 2540C	27-MAR-2025
SW846 3005A/6020B	05-APR-2025
SW846 3005A/6020B	06-APR-2025
SW846 7470A	01-APR-2025
SW846 7470A	02-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 715597 GEL Work Order: 715597

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-01
Sample ID: 715597001
Matrix: WG
Collect Date: 18-MAR-25 17:47
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0534	0.0330	0.100	mg/L		1	RXB5	03/22/25	1323	2770341	1
Sulfate		30.4	0.665	2.00	mg/L		5	RXB5	03/22/25	2035	2770341	2
Chloride		11.9	0.335	1.00	mg/L		5	RXB5	03/25/25	1633	2770341	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1323	2773805	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0611	2770966	5
Arsenic		0.00514	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0796	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0642	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.39	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		86.0	2.38	10.0	mg/L			RR4	03/24/25	1331	2770553	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-01	Project:	GPCC00105
Sample ID:	715597001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-02
Sample ID: 715597002
Matrix: WG
Collect Date: 20-MAR-25 15:10
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	RXB5	03/22/25	1456	2770341	1
Sulfate		24.3	0.665	2.00	mg/L		5	RXB5	03/22/25	2208	2770341	2
Chloride		13.1	0.335	1.00	mg/L		5	RXB5	03/25/25	1806	2770341	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1324	2773805	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0631	2770966	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0480	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0922	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.94	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		69.0	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-02	Project:	GPCC00105
Sample ID:	715597002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-04
Sample ID: 715597003
Matrix: WG
Collect Date: 20-MAR-25 14:42
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0536	0.0330	0.100	mg/L		1	RXB5	03/22/25	1526	2770341	1
Sulfate		41.8	2.66	8.00	mg/L		20	RXB5	03/22/25	2239	2770341	2
Chloride		45.3	1.34	4.00	mg/L		20	RXB5	03/25/25	1837	2770341	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1326	2773805	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0634	2770966	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0383	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000323	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0876	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.11	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00268	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		152	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	715597003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-05
Sample ID: 715597004
Matrix: WG
Collect Date: 19-MAR-25 14:35
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.557	0.165	0.500	mg/L		5	RXB5	03/22/25	1557	2770341	1
Sulfate		399	26.6	80.0	mg/L		200	RXB5	03/22/25	2309	2770341	2
Chloride		3790	33.5	100	mg/L		500	RXB5	03/25/25	1908	2770341	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1328	2773805	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	J	0.00142	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0637	2770966	5
Arsenic		0.0447	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0650	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0476	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00180	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		196	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2129	2770966	6
Boron		0.607	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1629	2770966	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7440	47.6	200	mg/L			RR4	03/25/25	1329	2771151	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-05	Project:	GPCC00105
Sample ID:	715597004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-06
Sample ID: 715597005
Matrix: WG
Collect Date: 19-MAR-25 12:43
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.407	0.165	0.500	mg/L		5	RXB5	03/22/25	1628	2770341	1
Chloride		4590	33.5	100	mg/L		500	RXB5	03/23/25	0042	2770341	2
Sulfate		549	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1329	2773805	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0640	2770966	4
Arsenic		0.116	0.00200	0.00500	mg/L	1.00	1					
Barium		0.155	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0636	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000896	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		198	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2131	2770966	5
Boron		0.822	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1630	2770966	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8300	47.6	200	mg/L			RR4	03/26/25	1215	2771677	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	715597005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-07
Sample ID: 715597006
Matrix: WG
Collect Date: 19-MAR-25 10:52
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.798	0.330	1.00	mg/L		10	RXB5	03/22/25	1659	2770341	1
Chloride		2720	33.5	100	mg/L		500	RXB5	03/23/25	0113	2770341	2
Sulfate		404	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1331	2773805	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0643	2770966	4
Arsenic		0.0106	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0492	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000592	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00157	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		98.9	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2134	2770966	5
Boron		0.911	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1631	2770966	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5420	47.6	200	mg/L			RR4	03/26/25	1215	2771677	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-07	Project:	GPCC00105
Sample ID:	715597006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-11
Sample ID: 715597007
Matrix: WG
Collect Date: 18-MAR-25 17:30
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4.51	0.0670	0.200	mg/L		1	RXB5	03/22/25	1832	2770341	1
Fluoride	J	0.0773	0.0330	0.100	mg/L		1					
Sulfate		26.0	0.266	0.800	mg/L		2	RXB5	03/23/25	0144	2770341	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1332	2773805	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0646	2770966	4
Arsenic		0.00783	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0313	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0522	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.66	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			RR4	03/25/25	1329	2771151	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	715597007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-12
Sample ID: 715597008
Matrix: WG
Collect Date: 17-MAR-25 17:25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.36	0.0330	0.100	mg/L		1	RXB5	03/22/25	1902	2770341	1
Sulfate		1.83	0.133	0.400	mg/L		1					
Chloride		311	3.35	10.0	mg/L		50	RXB5	03/23/25	0215	2770341	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/01/25	1334	2773805	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0649	2770966	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0658	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00148	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.62	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00739	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000481	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00974	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000440	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.38	0.104	0.300	mg/L	1.00	20	PRB	04/06/25	1632	2770966	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1220	4.76	20.0	mg/L			RR4	03/24/25	1331	2770553	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/31/25	1135	2773797
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	715597008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-14
Sample ID: 715597009
Matrix: WG
Collect Date: 17-MAR-25 16:30
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.273	0.165	0.500	mg/L		5	RXB5	03/22/25	1933	2770341	1
Sulfate		443	26.6	80.0	mg/L		200	RXB5	03/23/25	0246	2770341	2
Chloride		3240	67.0	200	mg/L		1000	RXB5	03/25/25	1938	2770341	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1019	2774233	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0652	2770966	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.109	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0373	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		171	0.400	1.00	mg/L	1.00	5	PRB	04/05/25	2140	2770966	6
Boron		0.341	0.0260	0.0750	mg/L	1.00	5	PRB	04/06/25	1633	2770966	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6320	47.6	200	mg/L			RR4	03/24/25	1331	2770553	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-14	Project:	GPCC00105
Sample ID:	715597009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-15
Sample ID: 715597010
Matrix: WG
Collect Date: 20-MAR-25 17:24
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	RXB5	03/22/25	2004	2770341	1
Sulfate		11.5	0.133	0.400	mg/L		1					
Chloride		10.6	0.134	0.400	mg/L		2	RXB5	03/23/25	0316	2770341	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1021	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0655	2770966	4
Arsenic		0.00584	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0374	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0644	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.54	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00118	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		63.0	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-15	Project:	GPCC00105
Sample ID:	715597010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	715597011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-MAR-25 16:53		
Receive Date:	22-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.86	0.0670	0.200	mg/L		1	RXB5	03/22/25	1322	2770342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		21.9	0.266	0.800	mg/L		2	RXB5	03/23/25	0244	2770342	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1022	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0658	2770966	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0421	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0594	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.41	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		61.0	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770964
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	715597011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-17
Sample ID: 715597012
Matrix: WG
Collect Date: 18-MAR-25 10:36
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.45	0.330	1.00	mg/L		10	RXB5	03/22/25	1454	2770342	1
Chloride		2900	33.5	100	mg/L		500	RXB5	03/23/25	0417	2770342	2
Sulfate		363	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1024	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0509	2770970	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0751	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000228	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00481	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0230	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000280	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.64	0.104	0.300	mg/L	1.00	20	PRB	04/05/25	2029	2770970	5
Calcium		72.2	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5200	47.6	200	mg/L			RR4	03/25/25	1329	2771151	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	715597012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-18
Sample ID: 715597013
Matrix: WG
Collect Date: 19-MAR-25 15:44
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.564	0.165	0.500	mg/L		5	RXB5	03/22/25	1525	2770342	1
Chloride		992	13.4	40.0	mg/L		200	RXB5	03/23/25	0448	2770342	2
Sulfate		179	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1025	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0530	2770970	4
Arsenic	J	0.00245	0.00200	0.00500	mg/L	1.00	1					
Barium		0.123	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00248	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		17.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00560	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.175	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2007	2770970	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1930	4.76	20.0	mg/L			RR4	03/26/25	1215	2771677	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-18	Project:	GPCC00105
Sample ID:	715597013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-19
Sample ID: 715597014
Matrix: WG
Collect Date: 19-MAR-25 11:49
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.831	0.330	1.00	mg/L		10	RXB5	03/22/25	1556	2770342	1
Chloride		5330	67.0	200	mg/L		1000	RXB5	03/23/25	0518	2770342	2
Sulfate		843	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000980	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1027	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0532	2770970	4
Arsenic		0.0158	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0871	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0124	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00559	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0173	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0481	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		139	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2059	2770970	5
Boron		0.684	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1625	2770970	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10100	47.6	200	mg/L			RR4	03/26/25	1215	2771677	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-19	Project:	GPCC00105
Sample ID:	715597014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-20
Sample ID: 715597015
Matrix: WG
Collect Date: 19-MAR-25 13:27
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		2.94	0.330	1.00	mg/L		10	RXB5	03/22/25	1627	2770342	1
Chloride		4320	67.0	200	mg/L		1000	RXB5	03/23/25	0549	2770342	2
Sulfate		920	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1029	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0535	2770970	4
Arsenic		0.0183	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0852	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0122	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00559	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0204	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0182	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0279	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		92.4	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2101	2770970	5
Boron		0.751	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1626	2770970	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9900	47.6	200	mg/L			RR4	03/26/25	1215	2771677	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-20	Project:	GPCC00105
Sample ID:	715597015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DPZ-02
Sample ID: 715597016
Matrix: WG
Collect Date: 18-MAR-25 10:35
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.789	0.330	1.00	mg/L		10	RXB5	03/22/25	1658	2770342	1
Chloride		4080	67.0	200	mg/L		1000	RXB5	03/23/25	0753	2770342	2
Sulfate		635	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1030	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0538	2770970	4
Arsenic		0.0185	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0462	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0665	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000310	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		158	0.800	2.00	mg/L	1.00	10	PRB	04/05/25	2104	2770970	5
Boron		1.44	0.0520	0.150	mg/L	1.00	10	PRB	04/06/25	1627	2770970	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9000	47.6	200	mg/L			RR4	03/25/25	1329	2771151	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00105
Sample ID:	715597016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FD-01
Sample ID: 715597017
Matrix: WG
Collect Date: 18-MAR-25 12:00
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.35	0.330	1.00	mg/L		10	RXB5	03/22/25	1830	2770342	1
Chloride		2850	33.5	100	mg/L		500	RXB5	03/23/25	0824	2770342	2
Sulfate		371	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1035	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0541	2770970	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0745	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00478	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0229	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000291	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Calcium		72.6	1.60	4.00	mg/L	1.00	20	PRB	04/05/25	2107	2770970	5
Boron		1.78	0.104	0.300	mg/L	1.00	20	PRB	04/06/25	1636	2770970	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6320	47.6	200	mg/L			RR4	03/25/25	1329	2771151	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	715597017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FD-02
Sample ID: 715597018
Matrix: WG
Collect Date: 20-MAR-25 12:00
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		47.3	0.670	2.00	mg/L		10	RXB5	03/22/25	1901	2770342	1
Sulfate		41.4	1.33	4.00	mg/L		10					
Fluoride	J	0.0680	0.0330	0.100	mg/L		1	RXB5	03/25/25	2122	2770342	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1037	2774233	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0544	2770970	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0386	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.97	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00259	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0831	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2009	2770970	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		160	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00105
Sample ID:	715597018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01
Sample ID: 715597019
Matrix: WQ
Collect Date: 17-MAR-25 17:23
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	03/22/25	1932	2770342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1039	2774233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0547	2770970	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2012	2770970	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/24/25	1331	2770553	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	715597019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-02
Sample ID: 715597020
Matrix: WQ
Collect Date: 20-MAR-25 18:11
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	03/22/25	2003	2770342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1040	2774233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0550	2770970	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2015	2770970	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/26/25	1215	2771677	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00105
Sample ID:	715597020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-01
Sample ID: 715597021
Matrix: WQ
Collect Date: 17-MAR-25 17:34
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	03/22/25	2034	2770342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1042	2774233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0553	2770970	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2018	2770970	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/24/25	1331	2770553	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	715597021	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 7, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-02
Sample ID: 715597022
Matrix: WQ
Collect Date: 20-MAR-25 18:01
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	03/22/25	2105	2770342	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/02/25	1043	2774233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	04/05/25	0556	2770970	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	04/05/25	2020	2770970	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	03/27/25	1310	2772378	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/01/25	1200	2774232
SW846 3005A	ICP-MS 3005A PREP	PB1	03/27/25	0845	2770969

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Certificate of Analysis

Report Date: April 7, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00105
Sample ID:	715597022	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: April 7, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2770341													
QC1206046911 715597001 DUP													
Chloride			11.9		11.9	mg/L	0.0712			(0%-20%)	RXB5	03/25/25	17:04
Fluoride		J	0.0534	J	0.0525	mg/L	1.7	^		(+/-0.100)		03/22/25	13:54
Sulfate			30.4		30.7	mg/L	0.926			(0%-20%)		03/22/25	21:06
QC1206046910 LCS													
Chloride	5.00				4.53	mg/L			90.7	(90%-110%)		03/25/25	16:02
Fluoride	2.50				2.39	mg/L			95.6	(90%-110%)		03/22/25	12:52
Sulfate	10.0				9.51	mg/L			95.1	(90%-110%)			
QC1206046909 MB													
Chloride				U	ND	mg/L						03/25/25	15:32
Fluoride				U	ND	mg/L						03/22/25	12:22
Sulfate				U	ND	mg/L							
QC1206046912 715597001 PS													
Chloride	5.00		2.39		7.11	mg/L			94.4	(90%-110%)		03/25/25	17:35
Fluoride	2.50	J	0.0534		2.61	mg/L			102	(90%-110%)		03/22/25	14:25
Sulfate	10.0		6.07		16.0	mg/L			99.3	(90%-110%)		03/22/25	21:37

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2770342											
QC1206046917 715597011 DUP											
Chloride			8.86		8.81	mg/L	0.543		(0%-20%)	RXB5	03/22/25 13:52
Fluoride		U	ND	U	ND	mg/L	N/A				
Sulfate			21.9		21.8	mg/L	0.324		(0%-20%)		03/23/25 03:15
QC1206046914 LCS											
Chloride	5.00				4.58	mg/L		91.6	(90%-110%)		03/22/25 12:51
Fluoride	2.50				2.37	mg/L		94.6	(90%-110%)		
Sulfate	10.0				9.59	mg/L		95.9	(90%-110%)		
QC1206046913 MB											
Chloride				U	ND	mg/L					03/22/25 12:20
Fluoride				U	ND	mg/L					
Sulfate				U	ND	mg/L					
QC1206046918 715597011 PS											
Chloride	5.00		8.86		14.4	mg/L		112 *	(90%-110%)		03/22/25 14:23
Fluoride	2.50	U	ND		2.55	mg/L		102	(90%-110%)		
Sulfate	10.0		10.9		21.2	mg/L		103	(90%-110%)		03/23/25 03:46

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2770966										
QC1206048210 LCS										
Antimony	0.0500			0.0514	mg/L		103	(80%-120%)	PRB	04/05/25 06:08
Arsenic	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Barium	0.0500			0.0508	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0544	mg/L		109	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500			0.0503	mg/L		101	(80%-120%)		
Calcium	2.00			2.01	mg/L		100	(80%-120%)		
Chromium	0.0500			0.0488	mg/L		97.7	(80%-120%)		
Cobalt	0.0500			0.0487	mg/L		97.5	(80%-120%)		
Lead	0.0500			0.0492	mg/L		98.4	(80%-120%)		
Lithium	0.0500			0.0522	mg/L		104	(80%-120%)		
Molybdenum	0.0500			0.0514	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Thallium	0.0500			0.0476	mg/L		95.2	(80%-120%)		

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2770966											
QC1206048209 MB											
Antimony			U	ND	mg/L				PRB	04/05/25	06:05
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Calcium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Selenium			U	ND	mg/L						
Thallium			U	ND	mg/L						

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2770966											
QC1206048211 715597001 MS											
Antimony	0.0500	U	ND		0.0528	mg/L		105	(75%-125%)	PRB	04/05/25 06:14
Arsenic	0.0500		0.00514		0.0555	mg/L		101	(75%-125%)		
Barium	0.0500		0.0796		0.130	mg/L		100	(75%-125%)		
Beryllium	0.0500	U	ND		0.0564	mg/L		112	(75%-125%)		
Boron	0.100		0.0642		0.168	mg/L		104	(75%-125%)		
Cadmium	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Calcium	2.00		9.39		11.5	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0496	mg/L		98.6	(75%-125%)		
Cobalt	0.0500	U	ND		0.0492	mg/L		98.4	(75%-125%)		
Lead	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)		
Lithium	0.0500	U	ND		0.0530	mg/L		104	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0529	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0514	mg/L		103	(75%-125%)		
Thallium	0.0500	U	ND		0.0485	mg/L		96.8	(75%-125%)		

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2770966											
QC1206048212 715597001 MSD											
Antimony	0.0500	U	ND		0.0530	mg/L	0.437	105	(0%-20%)	PRB	04/05/25 06:17
Arsenic	0.0500		0.00514		0.0558	mg/L	0.446	101	(0%-20%)		
Barium	0.0500		0.0796		0.131	mg/L	1.18	103	(0%-20%)		
Beryllium	0.0500	U	ND		0.0580	mg/L	2.85	116	(0%-20%)		
Boron	0.100		0.0642		0.173	mg/L	2.56	108	(0%-20%)		
Cadmium	0.0500	U	ND		0.0509	mg/L	1.41	102	(0%-20%)		
Calcium	2.00		9.39		11.6	mg/L	1.01	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0510	mg/L	2.94	102	(0%-20%)		
Cobalt	0.0500	U	ND		0.0500	mg/L	1.61	100	(0%-20%)		
Lead	0.0500	U	ND		0.0498	mg/L	0.353	99.6	(0%-20%)		
Lithium	0.0500	U	ND		0.0535	mg/L	0.958	105	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0532	mg/L	0.556	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0501	mg/L	2.74	100	(0%-20%)		
Thallium	0.0500	U	ND		0.0487	mg/L	0.535	97.4	(0%-20%)		

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2770966										
QC1206048213 715597001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	04/05/25 06:22
Arsenic		5.14	U	ND	ug/L	N/A		(0%-20%)		
Barium		79.6		15.8	ug/L	.828		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron		64.2		19.6	ug/L	52.5		(0%-20%)		
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		9390		1940	ug/L	3.41		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2770970										
QC1206048215 LCS										
Antimony	0.0500			0.0509	mg/L		102	(80%-120%)	PRB	04/05/25 05:06
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0535	mg/L		107	(80%-120%)		
Beryllium	0.0500			0.0562	mg/L		112	(80%-120%)		
Boron	0.100			0.119	mg/L		119	(80%-120%)		04/05/25 20:04
Cadmium	0.0500			0.0527	mg/L		105	(80%-120%)		04/05/25 05:06
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0491	mg/L		98.2	(80%-120%)		
Cobalt	0.0500			0.0482	mg/L		96.5	(80%-120%)		
Lead	0.0500			0.0523	mg/L		105	(80%-120%)		
Lithium	0.0500			0.0553	mg/L		111	(80%-120%)		
Molybdenum	0.0500			0.0543	mg/L		109	(80%-120%)		
Selenium	0.0500			0.0505	mg/L		101	(80%-120%)		
Thallium	0.0500			0.0501	mg/L		100	(80%-120%)		

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2770970										
QC1206048214 MB										
Antimony			U	ND	mg/L				PRB	04/05/25 05:03
Arsenic			U	ND	mg/L					
Barium			J	0.000789	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					04/05/25 20:01
Cadmium			U	ND	mg/L					04/05/25 05:03
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2770970											
QC1206048216 715597012 MS											
Antimony	0.0500	U	ND		0.0495	mg/L		98.6	(75%-125%)	PRB	04/05/25 05:12
Arsenic	0.0500	U	ND		0.0487	mg/L		94.8	(75%-125%)		
Barium	0.0500		0.0751		0.123	mg/L		95.5	(75%-125%)		
Beryllium	0.0500	J	0.000228		0.0474	mg/L		94.4	(75%-125%)		
Boron	0.100		1.64		1.75	mg/L		N/A	(75%-125%)		04/05/25 20:31
Cadmium	0.0500	U	ND		0.0447	mg/L		89.3	(75%-125%)		04/05/25 05:12
Calcium	2.00		72.2		72.6	mg/L		N/A	(75%-125%)		04/05/25 20:31
Chromium	0.0500	J	0.00481		0.0506	mg/L		91.5	(75%-125%)		04/05/25 05:12
Cobalt	0.0500	U	ND		0.0437	mg/L		87	(75%-125%)		
Lead	0.0500	U	ND		0.0448	mg/L		89	(75%-125%)		
Lithium	0.0500		0.0230		0.0731	mg/L		100	(75%-125%)		
Molybdenum	0.0500	J	0.000280		0.0556	mg/L		111	(75%-125%)		
Selenium	0.0500	U	ND		0.0321	mg/L		62*	(75%-125%)		
Thallium	0.0500	U	ND		0.0436	mg/L		87.1	(75%-125%)		

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2770970											
QC1206048217 715597012 MSD											
Antimony	0.0500	U	ND		0.0505	mg/L	1.98	101	(0%-20%)	PRB	04/05/25 05:15
Arsenic	0.0500	U	ND		0.0492	mg/L	0.915	95.7	(0%-20%)		
Barium	0.0500		0.0751		0.124	mg/L	0.874	97.7	(0%-20%)		
Beryllium	0.0500	J	0.000228		0.0496	mg/L	4.41	98.7	(0%-20%)		
Boron	0.100		1.64		1.80	mg/L	2.84	N/A	(0%-20%)		04/05/25 20:34
Cadmium	0.0500	U	ND		0.0460	mg/L	2.83	91.9	(0%-20%)		04/05/25 05:15
Calcium	2.00		72.2		71.4	mg/L	1.65	N/A	(0%-20%)		04/05/25 20:34
Chromium	0.0500	J	0.00481		0.0526	mg/L	3.88	95.5	(0%-20%)		04/05/25 05:15
Cobalt	0.0500	U	ND		0.0446	mg/L	2.06	88.8	(0%-20%)		
Lead	0.0500	U	ND		0.0459	mg/L	2.44	91.2	(0%-20%)		
Lithium	0.0500		0.0230		0.0742	mg/L	1.57	102	(0%-20%)		
Molybdenum	0.0500	J	0.000280		0.0579	mg/L	4.17	115	(0%-20%)		
Selenium	0.0500	U	ND		0.0332	mg/L	3.29	64.1*	(0%-20%)		
Thallium	0.0500	U	ND		0.0451	mg/L	3.43	90.1	(0%-20%)		

QC Summary

Workorder: **715597**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2770970											
QC1206060365 715597012 PS											
Selenium	50.0	U	ND		50.5	ug/L		98.7	(75%-125%)	PRB	04/05/25 05:18
QC1206048218 715597012 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		04/05/25 05:21
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			75.1		14.6	ug/L	2.57		(0%-20%)		
Beryllium		J	0.228	U	ND	ug/L	N/A		(0%-20%)		
Boron			82.0		19.6	ug/L	19.3		(0%-20%)		04/05/25 20:37
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		04/05/25 05:21
Calcium			3610		736	ug/L	1.93		(0%-20%)		04/05/25 20:37
Chromium		J	4.81	U	ND	ug/L	N/A		(0%-20%)		04/05/25 05:21
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium			23.0	J	4.46	ug/L	3.05		(0%-20%)		
Molybdenum		J	0.280	U	ND	ug/L	N/A		(0%-20%)		
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2770970										
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	04/05/25 05:21
Metals Analysis-Mercury										
Batch 2773805										
QC1206054310 714253002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	04/01/25 13:03
QC1206054309 LCS										
Mercury 0.00200				0.00203	mg/L		101	(80%-120%)		04/01/25 12:57
QC1206054308 MB										
Mercury			U	ND	mg/L					04/01/25 12:55
QC1206054311 714253002 MS										
Mercury 0.00200	U	ND		0.00198	mg/L		98.8	(75%-125%)		04/01/25 13:05
QC1206054312 714253002 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		04/01/25 13:08
Batch 2774233										
QC1206055648 714979001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	04/02/25 10:06
QC1206055334 LCS										
Mercury 0.00200				0.00199	mg/L		99.6	(80%-120%)		04/02/25 10:03
QC1206055333 MB										
Mercury			U	ND	mg/L					04/02/25 10:01
QC1206055649 714979001 MS										
Mercury 0.00200	U	ND		0.00194	mg/L		97.2	(75%-125%)		04/02/25 10:08

QC Summary

Workorder: 715597

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2774233										
QC1206055650 714979001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	04/02/25 10:11
Solids Analysis										
Batch 2770553										
QC1206047399 715308002 DUP										
Total Dissolved Solids		195		199	mg/L	2.03		(0%-5%)	RR4	03/24/25 13:31
QC1206047398 LCS										
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)		03/24/25 13:31
QC1206047397 MB										
Total Dissolved Solids			U	ND	mg/L					03/24/25 13:31
Batch 2771151										
QC1206048624 715095016 DUP										
Total Dissolved Solids		105		107	mg/L	1.89		(0%-5%)	RR4	03/25/25 13:29
QC1206048623 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		03/25/25 13:29
QC1206048622 MB										
Total Dissolved Solids			U	ND	mg/L					03/25/25 13:29
Batch 2771677										
QC1206049830 715143002 DUP										
Total Dissolved Solids		2240		2160	mg/L	3.73		(0%-5%)	RR4	03/26/25 12:15
QC1206049829 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		03/26/25 12:15
QC1206049828 MB										
Total Dissolved Solids			U	ND	mg/L					03/26/25 12:15

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2772378										
QC1206051177 715720002 DUP										
Total Dissolved Solids		165		161	mg/L	2.45		(0%-5%)	RR4	03/27/25 13:10
QC1206051173 LCS										
Total Dissolved Solids	300			295	mg/L		98.3	(95%-105%)		03/27/25 13:10
QC1206051172 MB										
Total Dissolved Solids			J	4.00	mg/L					03/27/25 13:10

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **715597**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 715597

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2770966

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2770964

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597001	MCM-MCM-01
715597002	MCM-MCM-02
715597003	MCM-MCM-04
715597004	MCM-MCM-05
715597005	MCM-MCM-06
715597006	MCM-MCM-07
715597007	MCM-MCM-11
715597008	MCM-MCM-12
715597009	MCM-MCM-14
715597010	MCM-MCM-15
715597011	MCM-MCM-16
1206048209	Method Blank (MB)**ICP-MS**
1206048210	Laboratory Control Sample (LCS)
1206048213	715597001(MCM-MCM-01L) Serial Dilution (SD)
1206048211	715597001(MCM-MCM-01S) Matrix Spike (MS)
1206048212	715597001(MCM-MCM-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 715597004 (MCM-MCM-05), 715597005

(MCM-MCM-06), 715597006 (MCM-MCM-07), 715597008 (MCM-MCM-12) and 715597009 (MCM-MCM-14) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	715597				
	004	**005**	**006**	**008**	**009**
Boron	10X	10X	10X	20X	5X
Calcium	10X	10X	10X	1X	5X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2770970

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2770969

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597012	MCM-MCM-17
715597013	MCM-MCM-18
715597014	MCM-MCM-19
715597015	MCM-MCM-20
715597016	MCM-DPZ-02
715597017	MCM-AP1-FD-01
715597018	MCM-AP1-FD-02
715597019	MCM-AP1-FB-01
715597020	MCM-AP1-FB-02
715597021	MCM-AP1-EB-01
715597022	MCM-AP1-EB-02
1206048214	Method Blank (MB)**ICP-MS**
1206048215	Laboratory Control Sample (LCS)
1206048218	715597012(MCM-MCM-17L) Serial Dilution (SD)
1206048216	715597012(MCM-MCM-17S) Matrix Spike (MS)
1206048217	715597012(MCM-MCM-17SD) Matrix Spike Duplicate (MSD)
1206060365	715597012(MCM-MCM-17PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1206048216 (MCM-MCM-17MS)	Selenium	62* (75%-125%)
1206048217 (MCM-MCM-17MSD)	Selenium	64.1* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 715597012 (MCM-MCM-17), 715597014 (MCM-MCM-19), 715597015 (MCM-MCM-20), 715597016 (MCM-DPZ-02) and 715597017 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	715597				
	012	014	015	016	017
Boron	20X	10X	10X	10X	20X
Calcium	20X	10X	10X	10X	20X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2773805

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2773797

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597001	MCM-MCM-01
715597002	MCM-MCM-02
715597003	MCM-MCM-04
715597004	MCM-MCM-05
715597005	MCM-MCM-06
715597006	MCM-MCM-07
715597007	MCM-MCM-11
715597008	MCM-MCM-12
1206054308	Method Blank (MB)**CVAA**
1206054309	Laboratory Control Sample (LCS)
1206054312	714253002(NonSDGL) Serial Dilution (SD)
1206054310	714253002(NonSDGD) Sample Duplicate (DUP)

1206054311	714253002(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2774233

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2774232

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597009	MCM-MCM-14
715597010	MCM-MCM-15
715597011	MCM-MCM-16
715597012	MCM-MCM-17
715597013	MCM-MCM-18
715597014	MCM-MCM-19
715597015	MCM-MCM-20
715597016	MCM-DPZ-02
715597017	MCM-AP1-FD-01
715597018	MCM-AP1-FD-02
715597019	MCM-AP1-FB-01
715597020	MCM-AP1-FB-02
715597021	MCM-AP1-EB-01
715597022	MCM-AP1-EB-02
1206055333	Method Blank (MB)**CVAA**
1206055334	Laboratory Control Sample (LCS)
1206055650	714979001(NonSDGL) Serial Dilution (SD)
1206055648	714979001(NonSDGD) Sample Duplicate (DUP)
1206055649	714979001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2770341

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597001	MCM-MCM-01
715597002	MCM-MCM-02
715597003	MCM-MCM-04
715597004	MCM-MCM-05
715597005	MCM-MCM-06
715597006	MCM-MCM-07
715597007	MCM-MCM-11
715597008	MCM-MCM-12
715597009	MCM-MCM-14
715597010	MCM-MCM-15
1206046909	Method Blank (MB)
1206046910	Laboratory Control Sample (LCS)
1206046911	715597001(MCM-MCM-01) Sample Duplicate (DUP)
1206046912	715597001(MCM-MCM-01) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 715597004 (MCM-MCM-05) and 715597009 (MCM-MCM-14) were diluted because target analyte concentrations exceeded the calibration range. Samples 1206046911 (MCM-MCM-01DUP), 1206046912 (MCM-MCM-01PS), 715597001 (MCM-MCM-01), 715597002 (MCM-MCM-02), 715597003 (MCM-MCM-04), 715597004 (MCM-MCM-05), 715597005 (MCM-MCM-06), 715597006 (MCM-MCM-07), 715597007 (MCM-MCM-11), 715597008 (MCM-MCM-12), 715597009 (MCM-MCM-14) and 715597010 (MCM-MCM-15) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	715597									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	5X	5X	20X	500X	500X	500X	1X	50X	1000X	2X
Fluoride	1X	1X	1X	5X	5X	10X	1X	1X	5X	1X
Sulfate	5X	5X	20X	200X	500X	500X	2X	1X	200X	1X

Sample Re-analysis
Samples 1206046909 (MB), 1206046910 (LCS), 1206046911 (MCM-MCM-01DUP), 1206046912 (MCM-MCM-01PS), 715597001 (MCM-MCM-01), 715597002 (MCM-MCM-02), 715597003 (MCM-MCM-04) and 715597004 (MCM-MCM-05) were re-analyzed due to CCB failure. The reanalysis data with passing instrument QC was reported.

Miscellaneous Information

Manual Integrations
Samples 1206046911 (MCM-MCM-01DUP), 1206046912 (MCM-MCM-01PS), 715597001 (MCM-MCM-01), 715597003 (MCM-MCM-04), 715597007 (MCM-MCM-11) and 715597008 (MCM-MCM-12) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2770342

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597011	MCM-MCM-16
715597012	MCM-MCM-17
715597013	MCM-MCM-18
715597014	MCM-MCM-19
715597015	MCM-MCM-20
715597016	MCM-DPZ-02
715597017	MCM-AP1-FD-01
715597018	MCM-AP1-FD-02
715597019	MCM-AP1-FB-01
715597020	MCM-AP1-FB-02
715597021	MCM-AP1-EB-01
715597022	MCM-AP1-EB-02
1206046913	Method Blank (MB)
1206046914	Laboratory Control Sample (LCS)
1206046917	715597011(MCM-MCM-16) Sample Duplicate (DUP)
1206046918	715597011(MCM-MCM-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1206046918 (MCM-MCM-16PS)	112* (90%-110%)

Technical Information

Sample Dilutions

Samples 1206046917 (MCM-MCM-16DUP), 1206046918 (MCM-MCM-16PS), 715597011 (MCM-MCM-16), 715597012 (MCM-MCM-17), 715597013 (MCM-MCM-18), 715597014 (MCM-MCM-19), 715597015 (MCM-MCM-20), 715597016 (MCM-DPZ-02), 715597017 (MCM-AP1-FD-01) and 715597018 (MCM-AP1-FD-02) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	715597							
	011	**012**	**013**	**014**	**015**	**016**	**017**	**018**
Chloride	1X	500X	200X	1000X	1000X	1000X	500X	10X
Fluoride	1X	10X	5X	10X	10X	10X	10X	1X
Sulfate	2X	500X	200X	1000X	1000X	1000X	500X	10X

Miscellaneous Information

Manual Integrations
Samples 1206046918 (MCM-MCM-16PS) and 715597018 (MCM-AP1-FD-02) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2770553

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597001	MCM-MCM-01
715597008	MCM-MCM-12
715597009	MCM-MCM-14
715597019	MCM-AP1-FB-01
715597021	MCM-AP1-EB-01
1206047397	Method Blank (MB)
1206047398	Laboratory Control Sample (LCS)
1206047399	715308002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 715597008 (MCM-MCM-12) and 715597009 (MCM-MCM-14).

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2771151

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597004	MCM-MCM-05
715597007	MCM-MCM-11
715597012	MCM-MCM-17
715597016	MCM-DPZ-02
715597017	MCM-AP1-FD-01
1206048622	Method Blank (MB)
1206048623	Laboratory Control Sample (LCS)
1206048624	715095016(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 715597004 (MCM-MCM-05), 715597012 (MCM-MCM-17), 715597016 (MCM-DPZ-02) and 715597017 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2771677

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597002	MCM-MCM-02
715597003	MCM-MCM-04
715597005	MCM-MCM-06
715597006	MCM-MCM-07
715597010	MCM-MCM-15
715597011	MCM-MCM-16
715597013	MCM-MCM-18
715597014	MCM-MCM-19
715597015	MCM-MCM-20
715597018	MCM-AP1-FD-02
715597020	MCM-AP1-FB-02
1206049828	Method Blank (MB)
1206049829	Laboratory Control Sample (LCS)
1206049830	715143002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 1206049830 (Non SDG 715143002DUP), 715597005 (MCM-MCM-06), 715597006 (MCM-MCM-07), 715597013 (MCM-MCM-18), 715597014 (MCM-MCM-19) and 715597015 (MCM-MCM-20).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2772378

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715597022	MCM-AP1-EB-02
1206051172	Method Blank (MB)
1206051173	Laboratory Control Sample (LCS)
1206051177	715720002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

715597
715609

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-MCM-01	03/18/25	1747	G	N	WG			6	X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-02			G	N	WG				X	X	X	X	X		
MCM-MCM-04			G	N	WG				X	X	X	X	X		
MCM-MCM-05			G	N	WG				X	X	X	X	X		
MCM-MCM-06			G	N	WG				X	X	X	X	X		
MCM-MCM-07			G	N	WG				X	X	X	X	X		
MCM-MCM-11	03/18/25	1730	G	N	WG			6	X	X	X	X	X		
MCM-MCM-12			G	N	WG				X	X	X	X	X		
MCM-MCM-14			G	N	WG				X	X	X	X	X		
MCM-MCM-15			G	N	WG				X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 FedEx		
2			2 Cmcmahon	MAR 22 2025	0930
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/12 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

715698
715597
715609

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02	03/20/25	1510	G	N	WG			6	X	X	X	X	X	
MCM-MCM-04	03/20/25	1442	G	N	WG			6	X	X	X	X	X	
MCM-MCM-05	~~03/24/25~~		G	N	WG				X	X	X	X	X	
MCM-MCM-06	NP 03/20/25		G	N	WG				X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15	03/20/25	1724	G	N	WG			6	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe	3/21/25	1645	FedEx		
2					3/22/25	920
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0-1.4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06			G	N	WG				X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12	03/17/25	1725	G	N	WG			6	X	X	X	X	X	
MCM-MCM-14	03/17/25	1630	G	N	WG			6	X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	3/21/25	1045	1 FedEx		
2			2 CMcMahon	MAR 22 2025	
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 | 12 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05	03/19/25	1435	G	N	WG			6	X	X	X	X	X	
MCM-MCM-06	03/19/25	1243	G	N	WG			6	X	X	X	X	X	
MCM-MCM-07	03/19/25	1052	G	N	WG			6	X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	3/21/25	1045	1 Fed Ex		
2			2 [signature] MAR 2 2 2025		0730
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/14 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

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As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
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FL = Flammable/Ignitable
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TSCA Regulated
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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (EnSafe) — Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16	03/20/25	1653	G	N	WG			6	X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X						
MCM-AP1-FD-02	03/20/25	—	FD	N	WG			6	X	X	X	X	X						
MCM-AP1-FB-02	03/20/25	1811	FB	N	WQ			6	X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/21/25	1045	1 Fed Ex		
2				2 [signature]	3/22/25	920
3				3		

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0- 1.4°C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17	03/18/25	1036	G	N	WG			6	X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02	03/18/25	1035	G	N	WG			6	X	X	X	X	X						
MCM-AP1-FD-01	03/18/25	—	FD	N	WG			6	X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 Fed Ex		
2			2 Comm Fox MAR 22 2025		0930
3			3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/1.4°C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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RCRA Metals
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Ba = Barium
Cd = Cadmium
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Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
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RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-MCM-16			G	N	WG				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-17			G	N	WG				X	X	X	X	X		
MCM-MCM-18	03/19/25	1544	G	N	WG			6	X	X	X	X	X		
MCM-MCM-19	03/19/25	1149	G	N	WG			6	X	X	X	X	X		
MCM-MCM-20	03/19/25	1327	G	N	WG			6	X	X	X	X	X		
MCM-DPZ-02			G	N	WG				X	X	X	X	X		
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X		
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X		
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 FedEx		
2			2 Cmcmahon	MAR 22 2025	0920
3			3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 0 | 14C

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X						
MCM-AP1-FB- 01	03/17/25	1723	FB	N	WQ			6	X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	3/21/25 EnSafe	1045	1 FedEx Cmcmahon	MAR 22 2025	0920
2			2		
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 | 14 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
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Characteristic Hazards
FL = Flammable/Ignitable
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TSCA Regulated
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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

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Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-AP1-EB- 01	03/17/25	1734	EB	N	WQ			6	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

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2				2 Cmcmahon	MAR 22 2025	09
3				3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/14 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
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GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

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Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-AP1-EB-02	03/20/25	1801	EB	N	WQ			6	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/21/25	1045	1 FedEx		
2				[signature]	3/22/25	920
3				3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0-6°C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

715698

Client: GPCC | SDG/AR/COC/Work Order: 715597 715609 715600 | GEL PM:

Received By: QG | Date Received at GEL: 3/22/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
2864 8771 7747	14c	rchem			
2864 8771 7725	0c				
2864 8771 7703	14c	rchem			
2864 8771 7736	0c				
2864 8771 7714	12c	rchem			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?			If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?			Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?				Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?				Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?				IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?				IDs and containers affected:
9	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) COC missing container count for majority of samples.
11	Are sample containers identifiable as GEL provided by use of GEL labels?				
12	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments:

missing date and time for majority of samples
missing plastic ILs for MCM-MCM-11 (2), MCM-MCM-17 (3) and MCM-API-FD-01 (2)

PM (or PMA) review: Initials SH Date 3/24/25

☐ Continuation Form Required when selected

Outlook

Re: Receipt Notification- Plant McManus CCR Groundwater Compliance

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Thu 3/27/2025 9:13 AM
To Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

Great! Thank you for the quick response.

Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

From: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>
Sent: Thursday, March 27, 2025 9:11 AM
To: Hannah Bowden <Hannah.Bowden@gel.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: RE: Receipt Notification- Plant McManus CCR Groundwater Compliance

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Thanks Hannah – Ensafe found the samples and will ship them today.

Kristen Jurinko, PG
Southern Company | Environmental Solutions
241 Ralph McGill Blvd NE, Bin 10060
Atlanta, Georgia 30308
470-217-0008 (Cell)
[southerncompany.com]southerncompany.com

Southern Company

From: Hannah Bowden <Hannah.Bowden@gel.com>
Sent: Thursday, March 27, 2025 9:08 AM
To: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: Re: Receipt Notification- Plant McManus CCR Groundwater Compliance

The tracking numbers are:

286687717747
286687717703
286687717714
286687717725
286687717736

Thank you,
Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com [gel.com]

From: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>
Sent: Thursday, March 27, 2025 8:31 AM
To: Hannah Bowden <Hannah.Bowden@gel.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: RE: Receipt Notification- Plant McManus CCR Groundwater Compliance

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Circling in Ensafe – could you please check the fedex tracking?

Kristen Jurinko, PG
Southern Company | Environmental Solutions
241 Ralph McGill Blvd NE, Bin 10060
Atlanta, Georgia 30308
470-217-0008 (Cell)
[southerncompany.com]southerncompany.com

Southern Company

From: Hannah Bowden <Hannah.Bowden@gel.com>
Sent: Wednesday, March 26, 2025 4:37 PM
To: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: Receipt Notification- Plant McManus CCR Groundwater Compliance

Good afternoon,

Notifying you of the following receipt issues for samples received on 3/22/25:

1. MCM-MCM-11: We did not receive 2 of the 3, 1L containers.
2. MCM-MCM-17: We did not receive 3 of the 3, 1L containers.
3. MCM-AP1-FD-01: We did not receive 1 of the 3, 1L containers.

Please see attachment for reference and advise.

Thank you,

Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com [gel.com]

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List of current GEL Certifications as of 07 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

April 24, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Relog: Radiochem and March 2025
Work Orders: 715609 and 716383

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 22, 2025 and March 27, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the previous revision noted as SDG number 715609 Rev01 in the left-hand footer of the data report. Revision 02 combines reports for GEL SDGs 715609 and 716383 into one analytical report.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Please see the attached email for sample receipt details*715609007(MCM-MCM-11), 715609012(MCM-MCM-17), 715609017(MCM-AP1-FD-01)*. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
715609001	MCM-MCM-01	Ground Water	03/18/25 17:47	03/22/25 09:20
715609002	MCM-MCM-02	Ground Water	03/20/25 15:10	03/22/25 09:20
715609003	MCM-MCM-04	Ground Water	03/20/25 14:42	03/22/25 09:20
715609004	MCM-MCM-05	Ground Water	03/19/25 14:35	03/22/25 09:20
715609005	MCM-MCM-06	Ground Water	03/19/25 12:43	03/22/25 09:20
715609006	MCM-MCM-07	Ground Water	03/19/25 10:52	03/22/25 09:20
715609007	MCM-MCM-11	Ground Water	03/18/25 17:30	03/22/25 09:20
715609008	MCM-MCM-12	Ground Water	03/17/25 17:25	03/22/25 09:20
715609009	MCM-MCM-14	Ground Water	03/17/25 16:30	03/22/25 09:20
715609010	MCM-MCM-15	Ground Water	03/20/25 17:24	03/22/25 09:20
715609011	MCM-MCM-16	Ground Water	03/20/25 16:53	03/22/25 09:20
715609012	MCM-MCM-17	Ground Water	03/18/25 10:36	03/22/25 09:20
715609013	MCM-MCM-18	Ground Water	03/19/25 15:44	03/22/25 09:20
715609014	MCM-MCM-19	Ground Water	03/19/25 11:49	03/22/25 09:20



715609015	MCM-MCM-20	Ground Water	03/19/25 13:27	03/22/25 09:20
715609016	MCM-DPZ-02	Ground Water	03/18/25 10:35	03/22/25 09:20
715609017	MCM-AP1-FD-01	Ground Water	03/18/25 12:00	03/22/25 09:20
715609018	MCM-AP1-FD-02	Ground Water	03/20/25 12:00	03/22/25 09:20
715609019	MCM-AP1-FB-01	Water	03/17/25 17:23	03/22/25 09:20
715609020	MCM-AP1-FB-02	Water	03/20/25 18:11	03/22/25 09:20
715609021	MCM-AP1-EB-01	Water	03/17/25 17:34	03/22/25 09:20
715609022	MCM-AP1-EB-02	Water	03/20/25 18:01	03/22/25 09:20
716383001	MCM-MCM-11	Ground Water	03/18/25 17:30	03/27/25 14:35
716383002	MCM-MCM-17	Ground Water	03/18/25 10:36	03/27/25 14:35
716383003	MCM-AP1-FD-01	Ground Water	03/18/25 12:00	03/27/25 14:35

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	09-APR-2025
Calculation	17-APR-2025
EPA 903.1 Modified	08-APR-2025
EPA 903.1 Modified	16-APR-2025
EPA 903.1 Modified	17-APR-2025
EPA 904.0/SW846 9320 Modified	02-APR-2025
EPA 904.0/SW846 9320 Modified	09-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 715609 GEL Work Order: 715609

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-01
Sample ID: 715609001
Matrix: WG
Collect Date: 18-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.757	+/-0.987	1.69	+/-1.01	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.25	+/-1.05	1.69	+/-1.07		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.497	+/-0.351	0.388	+/-0.366	1.00	pCi/L			RS2	04/16/25	0830	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	75.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-02
Sample ID: 715609002
Matrix: WG
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.409	+/-0.706	1.26	+/-0.714	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.16	+/-0.825	1.26	+/-0.843		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.748	+/-0.427	0.350	+/-0.448	1.00	pCi/L			RS2	04/16/25	0830	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-04
Sample ID: 715609003
Matrix: WG
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.00	+/-1.38	2.15	+/-1.48	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.92	+/-1.53	2.15	+/-1.65		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.92	+/-0.642	0.418	+/-0.738	1.00	pCi/L			RS2	04/16/25	0830	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	75.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-05
Sample ID: 715609004
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.74	+/-1.08	1.34	+/-1.30	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.29	+/-1.31	1.34	+/-1.56		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.55	+/-0.748	0.389	+/-0.865	1.00	pCi/L			RS2	04/16/25	0830	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	89.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-06
Sample ID: 715609005
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.10	+/-1.29	1.53	+/-1.68	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.33	+/-1.65	1.53	+/-2.17		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.22	+/-1.04	0.512	+/-1.37	1.00	pCi/L			RS2	04/16/25	0830	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	91.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-07
Sample ID: 715609006
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.58	+/-1.11	1.50	+/-1.30	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.55	+/-1.32	1.50	+/-1.52		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.97	+/-0.710	0.446	+/-0.790	1.00	pCi/L			RS2	04/16/25	0906	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	93.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-12
Sample ID: 715609008
Matrix: WG
Collect Date: 17-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	2.54	+/-1.66	2.58	+/-1.79	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.37	+/-1.74	2.58	+/-1.87		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.832	+/-0.524	0.531	+/-0.550	1.00	pCi/L			RS2	04/16/25	0906	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	69.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-14
Sample ID: 715609009
Matrix: WG
Collect Date: 17-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.49	+/-1.31	1.42	+/-1.76	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.60	+/-1.47	1.42	+/-1.92		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.11	+/-0.670	0.448	+/-0.767	1.00	pCi/L			RS2	04/16/25	0906	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-15
Sample ID: 715609010
Matrix: WG
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.189	+/-1.30	2.42	+/-1.30	3.00	pCi/L			DH1	04/09/25	0752	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.32	+/-1.45	2.42	+/-1.47		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.32	+/-0.659	0.668	+/-0.694	1.00	pCi/L			RS2	04/16/25	0906	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-16
Sample ID: 715609011
Matrix: WG
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.843	+/-0.877	1.44	+/-0.906	3.00	pCi/L			DH1	04/09/25	0922	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.52	+/-0.967	1.44	+/-1.00		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.674	+/-0.406	0.451	+/-0.434	1.00	pCi/L			RS2	04/16/25	0906	2773688	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	81.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 24, 2025

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-18
Sample ID: 715609013
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.33	+/-1.27	1.49	+/-1.55	3.00	pCi/L			DH1	04/09/25	0922	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.26	+/-1.50	1.49	+/-1.85		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.93	+/-0.787	0.502	+/-1.01	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-19
Sample ID: 715609014
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		16.1	+/-2.37	1.53	+/-4.87	3.00	pCi/L			DH1	04/09/25	0922	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		19.2	+/-2.54	1.53	+/-4.98		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.07	+/-0.894	0.857	+/-1.04	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-20
Sample ID: 715609015
Matrix: WG
Collect Date: 19-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		24.4	+/-2.84	1.53	+/-7.01	3.00	pCi/L			DH1	04/09/25	0922	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		26.7	+/-2.92	1.53	+/-7.06		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.36	+/-0.651	0.467	+/-0.817	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	88.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-DPZ-02
Sample ID: 715609016
Matrix: WG
Collect Date: 18-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.938	+/-1.21	2.06	+/-1.24	3.00	pCi/L			DH1	04/09/25	0755	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.64	+/-1.48	2.06	+/-1.60		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.70	+/-0.857	0.703	+/-1.01	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	83.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-FD-02
Sample ID: 715609018
Matrix: WG
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.63	+/-1.05	1.31	+/-1.26	3.00	pCi/L			DH1	04/09/25	0755	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.56	+/-1.25	1.31	+/-1.55		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.94	+/-0.673	0.365	+/-0.913	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	89.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-FB-01
Sample ID: 715609019
Matrix: WQ
Collect Date: 17-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.793	+/-1.47	2.56	+/-1.48	3.00	pCi/L			DH1	04/09/25	0755	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.20	+/-1.51	2.56	+/-1.52		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.404	+/-0.336	0.497	+/-0.342	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Georgia Power Company
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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-FB-02
Sample ID: 715609020
Matrix: WQ
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.18	+/-1.50	2.54	+/-1.53	3.00	pCi/L			DH1	04/09/25	0755	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.04	+/-1.57	2.54	+/-1.60		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.866	+/-0.458	0.488	+/-0.477	1.00	pCi/L			MJ2	04/17/25	0834	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	84.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-EB-01
Sample ID: 715609021
Matrix: WQ
Collect Date: 17-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.49	+/-1.08	1.62	+/-1.15	3.00	pCi/L			DH1	04/09/25	0922	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.16	+/-1.14	1.62	+/-1.21		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.670	+/-0.357	0.411	+/-0.372	1.00	pCi/L			MJ2	04/17/25	0908	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	73.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-EB-02
Sample ID: 715609022
Matrix: WQ
Collect Date: 20-MAR-25
Receive Date: 22-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.12	+/-1.13	1.61	+/-1.27	3.00	pCi/L			DH1	04/09/25	0751	2770816	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.17	+/-1.17	1.61	+/-1.30		pCi/L		1	NXL1	04/17/25	1210	2770821	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0549	+/-0.285	0.607	+/-0.285	1.00	pCi/L			MJ2	04/17/25	0908	2773689	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2770816	77.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
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Report Date: April 24, 2025

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-11
Sample ID: 716383001
Matrix: WG
Collect Date: 18-MAR-25
Receive Date: 27-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.908	+/-0.959	1.58	+/-0.988	3.00	pCi/L			AH4	04/02/25	0934	2773286	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.58	+/-1.07	1.58	+/-1.10		pCi/L			NXL1	04/09/25	1700	2773292	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.670	+/-0.472	0.598	+/-0.493	1.00	pCi/L			MJ2	04/08/25	1014	2773677	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2773286	71.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

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Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-MCM-17
Sample ID: 716383002
Matrix: WG
Collect Date: 18-MAR-25
Receive Date: 27-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.01	+/-1.13	1.42	+/-1.38	3.00	pCi/L			AH4	04/02/25	0934	2773286	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.41	+/-1.43	1.42	+/-1.75		pCi/L			NXL1	04/09/25	1700	2773292	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.40	+/-0.884	0.346	+/-1.08	1.00	pCi/L			MJ2	04/08/25	1058	2773677	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2773286	98.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 24, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochem and March 2025

Client Sample ID: MCM-AP1-FD-01
Sample ID: 716383003
Matrix: WG
Collect Date: 18-MAR-25
Receive Date: 27-MAR-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.98	+/-1.36	2.15	+/-1.46	3.00	pCi/L			AH4	04/02/25	0934	2773286	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.56	+/-1.59	2.15	+/-1.76		pCi/L			NXL1	04/09/25	1700	2773292	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.58	+/-0.812	0.382	+/-0.987	1.00	pCi/L			MJ2	04/08/25	1058	2773677	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2773286	92.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **716383**

Report Date: April 24, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2773286										
QC1206053346 716383001 DUP										
Radium-228	U	0.908	U	1.02	pCi/L	0		N/A	AH4	04/02/2509:34
	Uncert:	+/-0.959		+/-0.934						
	TPU:	+/-0.988		+/-0.972						
QC1206053347 LCS										
Radium-228	84.3			99.3	pCi/L		118	(75%-125%)	AH4	04/02/2509:34
	Uncert:			+/-5.54						
	TPU:			+/-26.7						
QC1206053345 MB										
Radium-228			U	2.01	pCi/L				AH4	04/02/2512:25
	Uncert:			+/-1.60						
	TPU:			+/-1.69						
Rad Ra-226										
Batch 2773677										
QC1206054010 715849001 DUP										
Radium-226		0.762		0.911	pCi/L	17.8		(0% - 100%)	MJ2	04/08/2510:58
	Uncert:	+/-0.508		+/-0.464						
	TPU:	+/-0.524		+/-0.509						
QC1206054012 LCS										
Radium-226	27.2			30.9	pCi/L		114	(75%-125%)	MJ2	04/08/2510:58
	Uncert:			+/-2.76						
	TPU:			+/-7.22						
QC1206054009 MB										
Radium-226			U	0.183	pCi/L				MJ2	04/08/2510:58
	Uncert:			+/-0.312						
	TPU:			+/-0.314						
QC1206054011 715849001 MS										
Radium-226	134	0.762		122	pCi/L		90.5	(75%-125%)	MJ2	04/08/2510:58
	Uncert:	+/-0.508		+/-11.5						
	TPU:	+/-0.524		+/-21.1						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **716383**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **715609**

Report Date: April 24, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2770816										
QC1206047933 715609001 DUP										
Radium-228	U	0.757	U	0.208	pCi/L	0		N/A	DH1	04/09/2507:54
	Uncert:	+/-0.987		+/-0.838						
	TPU:	+/-1.01		+/-0.840						
QC1206047934 LCS										
Radium-228	82.8			88.5	pCi/L		107	(75%-125%)	DH1	04/09/2507:54
	Uncert:			+/-4.60						
	TPU:			+/-23.7						
QC1206047932 MB										
Radium-228			U	0.843	pCi/L				DH1	04/09/2507:54
	Uncert:			+/-0.991						
	TPU:			+/-1.02						
Rad Ra-226										
Batch 2773688										
QC1206054057 LCS										
Radium-226	27.2			26.6	pCi/L		97.6	(75%-125%)	RS2	04/16/2509:42
	Uncert:			+/-2.45						
	TPU:			+/-4.61						
QC1206054052 MB										
Radium-226			U	0.0337	pCi/L				RS2	04/16/2509:42
	Uncert:			+/-0.272						
	TPU:			+/-0.272						
Batch 2773689										
QC1206054059 715609014 DUP										
Radium-226		3.07		5.30	pCi/L	53.1*		(0%-20%)	MJ2	04/17/2509:40
	Uncert:	+/-0.894		+/-1.01						
	TPU:	+/-1.04		+/-1.37						
QC1206054061 LCS										
Radium-226	27.1			21.0	pCi/L		77.5	(75%-125%)	MJ2	04/17/2509:40
	Uncert:			+/-1.71						
	TPU:			+/-5.29						
QC1206054058 MB										
Radium-226			U	0.484	pCi/L				MJ2	04/17/2509:08
	Uncert:			+/-0.418						
	TPU:			+/-0.428						
QC1206054060 715609014 MS										
Radium-226	127	3.07		101	pCi/L		77.4	(75%-125%)	MJ2	04/17/2509:40
	Uncert:	+/-0.894		+/-10.0						
	TPU:	+/-1.04		+/-22.9						

Notes:

QC Summary

Workorder: **715609**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 716383

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2773292

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716383001	MCM-MCM-11
716383002	MCM-MCM-17
716383003	MCM-AP1-FD-01

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2773286

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716383001	MCM-MCM-11
716383002	MCM-MCM-17
716383003	MCM-AP1-FD-01
1206053345	Method Blank (MB)
1206053346	716383001(MCM-MCM-11) Sample Duplicate (DUP)
1206053347	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 1206053345 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2773677

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716383001	MCM-MCM-11
716383002	MCM-MCM-17
716383003	MCM-AP1-FD-01
1206054009	Method Blank (MB)
1206054010	715849001(NonSDG) Sample Duplicate (DUP)
1206054011	715849001(NonSDG) Matrix Spike (MS)
1206054012	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1206054011 (Non SDG 715849001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2770821

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715609001	MCM-MCM-01
715609002	MCM-MCM-02
715609003	MCM-MCM-04
715609004	MCM-MCM-05
715609005	MCM-MCM-06
715609006	MCM-MCM-07
715609008	MCM-MCM-12
715609009	MCM-MCM-14
715609010	MCM-MCM-15
715609011	MCM-MCM-16
715609013	MCM-MCM-18
715609014	MCM-MCM-19
715609015	MCM-MCM-20
715609016	MCM-DPZ-02
715609018	MCM-AP1-FD-02
715609019	MCM-AP1-FB-01
715609020	MCM-AP1-FB-02
715609021	MCM-AP1-EB-01
715609022	MCM-AP1-EB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2770816

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715609001	MCM-MCM-01
715609002	MCM-MCM-02
715609003	MCM-MCM-04

715609004	MCM-MCM-05
715609005	MCM-MCM-06
715609006	MCM-MCM-07
715609008	MCM-MCM-12
715609009	MCM-MCM-14
715609010	MCM-MCM-15
715609011	MCM-MCM-16
715609013	MCM-MCM-18
715609014	MCM-MCM-19
715609015	MCM-MCM-20
715609016	MCM-DPZ-02
715609018	MCM-AP1-FD-02
715609019	MCM-AP1-FB-01
715609020	MCM-AP1-FB-02
715609021	MCM-AP1-EB-01
715609022	MCM-AP1-EB-02
1206047932	Method Blank (MB)
1206047933	715609001(MCM-MCM-01) Sample Duplicate (DUP)
1206047934	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Samples 715609014 (MCM-MCM-19) and 715609015 (MCM-MCM-20) were recounted due to high MDCs. The recounts are reported. Samples 715609011 (MCM-MCM-16), 715609013 (MCM-MCM-18) and 715609021 (MCM-AP1-EB-01) were recounted due to a suspected false positive. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2773688

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715609001	MCM-MCM-01
715609002	MCM-MCM-02
715609003	MCM-MCM-04
715609004	MCM-MCM-05
715609005	MCM-MCM-06
715609006	MCM-MCM-07
715609008	MCM-MCM-12
715609009	MCM-MCM-14
715609010	MCM-MCM-15
715609011	MCM-MCM-16

1206054052	Method Blank (MB)
1206054057	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2773689

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
715609013	MCM-MCM-18
715609014	MCM-MCM-19
715609015	MCM-MCM-20
715609016	MCM-DPZ-02
715609018	MCM-AP1-FD-02
715609019	MCM-AP1-FB-01
715609020	MCM-AP1-FB-02
715609021	MCM-AP1-EB-01
715609022	MCM-AP1-EB-02
1206054058	Method Blank (MB)
1206054059	715609014(MCM-MCM-19) Sample Duplicate (DUP)
1206054060	715609014(MCM-MCM-19) Matrix Spike (MS)
1206054061	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1206054059 (MCM-MCM-19DUP)	Radium-226	RPD 53.1* (0.00%-20.00%) RER 2.53 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1206054060 (MCM-MCM-19MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project # GPLC001.05
GEL Quote #: GELP22-0819
QC Number [1]:
PO Number: GPC82177
Client Name: ~~Georgia Power~~ Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Pino (Ensafe) Send Results To: knjurink@southernco.com + godwing@ensafe.com, cripley@ensafe.com

Chain of Custody and Analytical Request

GEL Work Order Number: GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

716383

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Radium 226/228 NI										<-- Preservative Type (6)
MCM-MCM-11	03/18/25	1730	G	N	WG			3	X										
MCM-MCM-17	03/18/25	1036	G	N	WG			3	X										
MCM-API-FD-01	03/18/25	—	FD	N	WG			2	X										

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	MWT Ensafe	3/27/25	1435	[signature]	3/27/25	14.35
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Task code: MCM-CCR-ASSMT-202551

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 19 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 716383 716372 | GEL PM: AP

~~Received By:~~ CLM | Date Received at GEL: 3/27/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier (Client) Other: | IR Temp gun # IR5-23 Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	19°	✓			
2	1°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice (None) Other: Reuse *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 3/28/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

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715609

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe)

Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01	03/18/25	1747	G	N	WG			6	X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06			G	N	WG				X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11	03/18/25	1730	G	N	WG			6	X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 FedEx		
2			2 Cmcmahon	MAR 22 2025	0930
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 | 2 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

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715609

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02	03/20/25	1510	G	N	WG			6	X	X	X	X	X	
MCM-MCM-04	03/20/25	1442	G	N	WG			6	X	X	X	X	X	
MCM-MCM-05	~~03/24/25~~		G	N	WG				X	X	X	X	X	
MCM-MCM-06	NP 03/24/25		G	N	WG				X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15	03/20/25	1724	G	N	WG			6	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe	3/21/25	1045	1 FedEx		
2				2	3/22/25	920
3				3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0-14 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI			NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12	03/17/25	1725	G	N	WG			6	X	X	X	X	X						
MCM-MCM-14	03/17/25	1630	G	N	WG			6	X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/21/25	1045	1 FedEx		
2				2 Concmahon	MAR 22 2025	
3				3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 | 12 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s): _____

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

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Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)	Comments
MCM-MCM-01			G	N	WG				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-02			G	N	WG				X	X	X	X	X		
MCM-MCM-04			G	N	WG				X	X	X	X	X		
MCM-MCM-05	03/19/25	1435	G	N	WG			6	X	X	X	X	X		
MCM-MCM-06	03/19/25	1243	G	N	WG			6	X	X	X	X	X		
MCM-MCM-07	03/19/25	1052	G	N	WG			6	X	X	X	X	X		
MCM-MCM-11			G	N	WG				X	X	X	X	X		
MCM-MCM-12			G	N	WG				X	X	X	X	X		
MCM-MCM-14			G	N	WG				X	X	X	X	X		
MCM-MCM-15			G	N	WG				X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	3/21/25	1045	1 Fed Ex		
2			2 cmcmahon	MAR 2 2 2025	0730
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/1.4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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FL = Flammable/Ignitable
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TSCA Regulated
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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
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GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

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GEL Work Order Number:

GEL Project Manager: Erin Trent

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Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16	03/20/25	1653	G	N	WG			6	X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X						
MCM-AP1-FD-02	03/20/25	—	FD	N	WG			6	X	X	X	X	X						
MCM-AP1-FB-02	03/20/25	1811	FB	N	WQ			6	X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/21/25	1045	1 Fed Ex		
2				2 [signature]	3/22/25	920
3				3		

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0- 4°C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
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GEL Work Order Number:

GEL Project Manager: Erin Trent

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MCM-MCM-16			G	N	WG				X	X	X	X	X	
MCM-MCM-17	03/18/25	1036	G	N	WG			6	X	X	X	X	X	
MCM-MCM-18			G	N	WG				X	X	X	X	X	
MCM-MCM-19			G	N	WG				X	X	X	X	X	
MCM-MCM-20			G	N	WG				X	X	X	X	X	
MCM-DPZ-02	03/18/25	1035	G	N	WG			6	X	X	X	X	X	
MCM-AP1-FD-01	03/18/25	—	FD	N	WG			6	X	X	X	X	X	
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X	
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 Fed Ex		
2			2 Commahon	MAR 22 2025	0900
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/1.4°C

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Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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MCM-MCM-17			G	N	WG				X	X	X	X	X	
MCM-MCM-18	03/19/25	1544	G	N	WG			6	X	X	X	X	X	
MCM-MCM-19	03/19/25	1149	G	N	WG			6	X	X	X	X	X	
MCM-MCM-20	03/19/25	1327	G	N	WG			6	X	X	X	X	X	
MCM-DPZ-02			G	N	WG				X	X	X	X	X	
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X	
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X	
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

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Fax Results: [ ] Yes [ ] No

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As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228						<-- Preservative Type (6)
									NI	NI			NI						
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WG				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WG				X	X	X	X	X						
MCM-AP1-FB- 01	03/17/25	1723	FB	N	WQ			6	X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/21/25	1045	1 FedEx Cmcmahon	MAR 22 2025	0920
2			2		
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 | 1.4 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe)

Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-AP1-EB- 01	03/17/25	1734	EB	N	WQ			6	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	3/21/25	1045	1 FedEx		
2			2 Cmcmahon	MAR 22 2025	09[illegible]
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0/14 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Mar. 2025 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (EnSafe) — Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-AP1-EB-02	03/20/25	1801	EB	N	WQ			6	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/21/25	1045	1 FedEx		
2				[signature]	3/22/25	720
3				3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0-6°C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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Ag= Silver
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FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

715698

Client: GPCC | SDG/AR/COC/Work Order: 715597 715609 715600 | GEL PM:

Received By: QG | Date Received at GEL: 3/22/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
2864 8771 7747	14c	rchem			
2864 8771 7725	0c				
2864 8771 7703	14c	rchem			
2864 8771 7736	0c				
2864 8771 7714	12c	rchem			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?			If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?			Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?				Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?				Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?				IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?				IDs and containers affected:
9	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) COC missing container count for majority of samples.
11	Are sample containers identifiable as GEL provided by use of GEL labels?				
12	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments:

missing date and time for majority of samples
missing plastic LLs for MCM-MCM-11 (2), MCM-MCM-17 (3) and MCM-API-FD-01 (2)

PM (or PMA) review: Initials SH Date 3/24/25

☐ Continuation Form Required when selected

Outlook

Re: Receipt Notification- Plant McManus CCR Groundwater Compliance

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Thu 3/27/2025 9:13 AM
To Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

Great! Thank you for the quick response.

Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

From: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>
Sent: Thursday, March 27, 2025 9:11 AM
To: Hannah Bowden <Hannah.Bowden@gel.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: RE: Receipt Notification- Plant McManus CCR Groundwater Compliance

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Thanks Hannah – Ensafe found the samples and will ship them today.

Kristen Jurinko, PG
Southern Company | Environmental Solutions
241 Ralph McGill Blvd NE, Bin 10060
Atlanta, Georgia 30308
470-217-0008 (Cell)
[southerncompany.com]southerncompany.com

Southern Company

From: Hannah Bowden <Hannah.Bowden@gel.com>
Sent: Thursday, March 27, 2025 9:08 AM
To: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: Re: Receipt Notification- Plant McManus CCR Groundwater Compliance

The tracking numbers are:

286687717747
286687717703
286687717714
286687717725
286687717736

Thank you,
Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com [gel.com]

From: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>
Sent: Thursday, March 27, 2025 8:31 AM
To: Hannah Bowden <Hannah.Bowden@gel.com>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>; Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <wlaaker@ensafe.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: RE: Receipt Notification- Plant McManus CCR Groundwater Compliance

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Circling in Ensafe – could you please check the fedex tracking?

Kristen Jurinko, PG
Southern Company | Environmental Solutions
241 Ralph McGill Blvd NE, Bin 10060
Atlanta, Georgia 30308
470-217-0008 (Cell)
[southerncompany.com]southerncompany.com

Southern Company

From: Hannah Bowden <Hannah.Bowden@gel.com>
Sent: Wednesday, March 26, 2025 4:37 PM
To: Jurinko, Kristen Nichole <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; Gangi, Noelia S. <NSMUSKUS@SOUTHERNCO.COM>; Midkiff, Laura B. <lbmidkif@southernco.com>; Farris, Kathryn <kathryn.farris@arcadis.com>; Stephenson, Kevin Mace <KMSTEPHE@SOUTHERNCO.COM>; Tidwell, Christopher Aaron <CATIDWEL@SOUTHERNCO.COM>
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: Receipt Notification- Plant McManus CCR Groundwater Compliance

Good afternoon,

Notifying you of the following receipt issues for samples received on 3/22/25:

1. MCM-MCM-11: We did not receive 2 of the 3, 1L containers.
2. MCM-MCM-17: We did not receive 3 of the 3, 1L containers.
3. MCM-AP1-FD-01: We did not receive 1 of the 3, 1L containers.

Please see attachment for reference and advise.

Thank you,

Hannah Bowden
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 |
Office Direct: 843.769.7371 Ext. 4533 |Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com [gel.com]

CONFIDENTIALITY NOTICE: This e-mail and any files transmitted with it are the property of The GEL Group, Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by The GEL Group, Inc. and its affiliates.

List of current GEL Certifications as of 24 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

VALIDATION SUMMARY

This report summarizes data validation findings for the March 2025 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data was validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between March 17 and 20, 2025. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods, consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020).

- Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma - Atomic Emission Spectroscopy And Inductively Coupled Plasma - Mass Spectroscopy (United States Environmental Protection Agency Region IV, September 2011).

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, were performed on samples from sample delivery groups 715597 and 715698. Table A-1 in Attachment A provides a summary of all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample/laboratory control sample duplicate
* Surrogates
  Matrix spike/matrix spike duplicate
* Serial dilution
* Laboratory duplicates
* Laboratory blanks
  Field blanks (equipment and field)
  Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met, or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Matrix Spike/Matrix Spike Duplicates

Matrix spike and matrix spike duplicates were within the acceptable recoveries, with the exceptions noted in Table 1, and relative percent difference. Qualification was not necessary when the percent recovery or the relative percent difference was high and the associated result was nondetect. When the native sample was greater than four times the spike concentration or if the sample was diluted, sample qualification was not necessary. Only the native sample, and if applicable the field duplicate, were qualified due to the outlier. Table 1 (percent recovery) displays the results and the resulting qualification.

Table 1
Matrix Spike/Matrix Spike Duplicate Percent Recovery Outliers

SDG	Method	Sample ID	Analyte	MS %R	MSD %R	Control Limit	Qualifier	RC
715597	EPA 6020B	MCM-MCM-17-WG-20250318 (Qualify field duplicate MCM-AP1-FD-01-WG-20250318)	Selenium	62	64.1	75-125	UJ	MS1

Notes:

SDG = sample delivery group
ID = identification
MS = matrix spike
%R = percent recovery
MSD = matrix spike duplicate
RC = reason code
EPA = Environmental Protection Agency
UJ = Nondetect result was qualified as estimated and may be biased low.
MS1 = matrix spike percent recovery outlier

Field Blanks

Field and equipment blanks were free from contamination with the exceptions noted in Table 2, with the resulting qualifications.

Table 2
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (mg/L)	Samples Qualified	Sample Result (mg/L)	Sample RL (mg/L)	Qualifier	RC
715698	EPA 6020B	MCM-AP1-EB-01-WQ-20250317	Sodium	0.121 J	None	—	—	—	—

Table 2
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (mg/L)	Samples Qualified	Sample Result (mg/L)	Sample RL (mg/L)	Qualifier	RC
715698	EPA 6020B	MCM-AP1-EB-02-WQ-20250320	Sodium	0.129 J	None	—	—	—	—
715698	EPA 6020B	MCM-AP1-FB-01-WQ-20250317	Sodium	0.194 J	None	—	—	—	—
715698	EPA 6020B	MCM-AP1-FB-02-WQ-20250320	Sodium	0.159 J	None	—	—	—	—

Notes:
SDG = sample delivery group
ID = identification
mg/L = milligrams per liter
RL = reporting limit
RC = reason code
EPA = Environmental Protection Agency
J = Detected result is estimated.
— = Sample qualification was not necessary since associated results were significantly higher in concentration.

Field Duplicates

The relative percent differences of field duplicate samples were evaluated against an acceptance criterion of 20% when both the results were greater than five times the reporting limit (RL). When one or both samples' results were less than five times the RL, the difference between the results was evaluated using a difference limit of the RL. Table 3 (relative percent difference) and Table 4 (absolute differences) display the qualified results and the resulting qualification.

Table 3
Field Duplicate Relative Percent Difference Outliers

SDG	Method	Sample ID / Field Duplicate ID	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD	RPD Limit	Qual	RC
715698	EPA 6020B	MCM-MCM-17-WG-20250318/ MCM-AP1-FD-01-WG-20250318	Magnesium	77	150	64	20	J	FD1
715698	EPA 6020B	MCM-MCM-17-WG-20250318/ MCM-AP1-FD-01-WG-20250318	Sodium	899	1710	62	20	J	FD1

Notes:
SDG = sample delivery group
ID = identification
mg/L = milligrams per liter
RPD = relative percent difference
Qual = validation qualifier
RC = reason code
EPA = Environmental Protection Agency
J = Detected result was qualified as estimated and the bias is indeterminable.
FD1 = field duplicate relative percent difference outlier

Table 4
Field Duplicate Absolute Difference Outliers

SDG	Method	Sample ID/ Field Duplicate ID	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	Diff	Limit	Qual	RC
715698	EPA 6020B	MCM-MCM-17-WG-20250318/ MCM-AP1-FD-01-WG-20250318	Potassium	41.5	80.3	38.8	15	J	FD2

Notes:

SDG = sample delivery group
ID = identification
mg/L = milligrams per liter
Diff = absolute difference
Qual = validation qualifier
RC = reason code
EPA = Environmental Protection Agency
J = Detected result was qualified as estimated and the bias is indeterminable.
FD2 = field duplicate absolute difference outlier

Sample Dilutions

Table 5 summarizes samples that were reported from dilutions. The sample results and reporting limits were adjusted accordingly.

Table 5
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
715597	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Boron Calcium	20
715597	EPA 300.0	MCM-AP1-FD-01-WG-20250318	Fluoride	10
715597	EPA 300.0	MCM-AP1-FD-01-WG-20250318	Sulfate Chloride	500
715597	EPA 300.0	MCM-AP1-FD-02-WG-20250320	Sulfate Chloride	10
715597	EPA 6020B	MCM-DPZ-02-WG-20250318	Boron Calcium	10
715597	EPA 300.0	MCM-DPZ-02-WG-20250318	Sulfate Chloride	1000
715597	EPA 300.0	MCM-DPZ-02-WG-20250318	Fluoride	10
715597	EPA 300.0	MCM-MCM-01-WG-20250318	Sulfate Chloride	5
715597	EPA 300.0	MCM-MCM-02-WG-20250320	Sulfate Chloride	5
715597	EPA 300.0	MCM-MCM-04-WG-20250320	Sulfate Chloride	20
715597	EPA 6020B	MCM-MCM-05-WG-20250319	Boron Calcium	10
715597	EPA 300.0	MCM-MCM-05-WG-20250319	Fluoride	5
715597	EPA 300.0	MCM-MCM-05-WG-20250319	Sulfate	200
715597	EPA 300.0	MCM-MCM-05-WG-20250319	Chloride	500
715597	EPA 6020B	MCM-MCM-06-WG-20250319	Boron Calcium	10
715597	EPA 300.0	MCM-MCM-06-WG-20250319	Sulfate Chloride	500

Table 5 Sample Dilutions				
SDG	**Method**	**Sample ID**	**Analyte**	**Dilution Factor**
715597	EPA 300.0	MCM-MCM-06-WG-20250319	Fluoride	5
715597	EPA 6020B	MCM-MCM-07-WG-20250319	Boron Calcium	10
715597	EPA 300.0	MCM-MCM-07-WG-20250319	Fluoride	10
715597	EPA 300.0	MCM-MCM-07-WG-20250319	Sulfate Chloride	500
715597	EPA 300.0	MCM-MCM-11-WG-20250318	Sulfate	2
715597	EPA 6020B	MCM-MCM-12-WG-20250317	Boron	20
715597	EPA 300.0	MCM-MCM-12-WG-20250317	Chloride	50
715597	EPA 6020B	MCM-MCM-14-WG-20250317	Boron Calcium	5
715597	EPA 300.0	MCM-MCM-14-WG-20250317	Sulfate	200
715597	EPA 300.0	MCM-MCM-14-WG-20250317	Fluoride	5
715597	EPA 300.0	MCM-MCM-14-WG-20250317	Chloride	1000
715597	EPA 300.0	MCM-MCM-15-WG-20250320	Chloride	2
715597	EPA 300.0	MCM-MCM-16-WG-20250320	Sulfate	2
715597	EPA 6020B	MCM-MCM-17-WG-20250318	Boron Calcium	20
715597	EPA 300.0	MCM-MCM-17-WG-20250318	Sulfate Chloride	500
715597	EPA 300.0	MCM-MCM-17-WG-20250318	Fluoride	10
715597	EPA 300.0	MCM-MCM-18-WG-20250319	Sulfate Chloride	200
715597	EPA 300.0	MCM-MCM-18-WG-20250319	Fluoride	5
715597	EPA 6020B	MCM-MCM-19-WG-20250319	Boron Calcium	10
715597	EPA 300.0	MCM-MCM-19-WG-20250319	Fluoride	10
715597	EPA 300.0	MCM-MCM-19-WG-20250319	Sulfate Chloride	1000
715597	EPA 6020B	MCM-MCM-20-WG-20250319	Boron Calcium	10
715597	EPA 300.0	MCM-MCM-20-WG-20250319	Sulfate Chloride	1000
715597	EPA 300.0	MCM-MCM-20-WG-20250319	Fluoride	10
715698	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-DPZ-02-WG-20250318	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-MCM-05-WG-20250319	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-MCM-06-WG-20250319	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-MCM-07-WG-20250319	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-MCM-12-WG-20250317	Sodium Magnesium	20

Table 5
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
715698	EPA 6020B	MCM-MCM-14-WG-20250317	Sodium Potassium Magnesium	100
715698	EPA 6020B	MCM-MCM-17-WG-20250318	Sodium Potassium Magnesium	50
715698	EPA 6020B	MCM-MCM-18-WG-20250319	Sodium Magnesium	20
715698	EPA 6020B	MCM-MCM-19-WG-20250319	Sodium Potassium Magnesium Iron	100
715698	EPA 6020B	MCM-MCM-20-WG-20250319	Sodium Potassium Magnesium Iron	100

Notes:
SDG = sample delivery group
ID = identification
EPA = Environmental Protection Agency

Overall Assessment

The data from the March 2025 sampling event were reviewed independently from the laboratory to assess data quality. All analytes detected at concentrations less than the quantitation limit but greater than the method detection limit were qualified by the laboratory as estimated (J). This J-qualifier was retained during data validation. Table B-1 in Attachment B provides a summary of the qualified results.

Attachment A
Sample and Analysis Summary

Table A-1 Sample and Analysis Summary								
SDG	Sample ID	Sample Date	Sample Type	EPA 300.0	SM 2320B	SM 2540C	EPA 6020B	EPA 7470A
715597/715698	MCM-AP1-EB-01-WQ-20250317	03/17/2025	Equipment Blank	X	X	X	X	X
715597/715698	MCM-AP1-EB-02-WQ-20250320	03/20/2025	Equipment Blank	X	X	X	X	X
715597/715698	MCM-AP1-FB-01-WQ-20250317	03/17/2025	Field Blank	X	X	X	X	X
715597/715698	MCM-AP1-FB-02-WQ-20250320	03/20/2025	Field Blank	X	X	X	X	X
715597/715698	MCM-AP1-FD-01-WG-20250318	03/18/2025	Duplicate of MCM-MCM-17-WG-20250318	X	X	X	X	X
715597/715698	MCM-AP1-FD-02-WG-20250320	03/20/2025	Duplicate of MCM-MCM-04-WG-20250320	X	X	X	X	X
715597/715698	MCM-DPZ-02-WG-20250318	03/18/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-01-WG-20250318	03/18/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-02-WG-20250320	03/20/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-04-WG-20250320	03/20/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-05-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-06-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-07-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-11-WG-20250318	03/18/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-12-WG-20250317	03/17/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-14-WG-20250317	03/17/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-15-WG-20250320	03/20/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-16-WG-20250320	03/20/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-17-WG-20250318	03/18/2025	Groundwater	X	X	X	X	X

Table A-1 Sample and Analysis Summary								
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 300.0**	**SM 2320B**	**SM 2540C**	**EPA 6020B**	**EPA 7470A**
715597/715698	MCM-MCM-18-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-19-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X
715597/715698	MCM-MCM-20-WG-20250319	03/19/2025	Groundwater	X	X	X	X	X

Notes:

SDG	=	sample delivery group
ID	=	identification
EPA	=	Environmental Protection Agency
300.0	=	anions via EPA Method 300.0
SM 2320B	=	alkalinity via Standard Method 2320B
SM 2540C	=	total dissolved solids via Standard Method 2540C
6020B	=	metals via EPA Method 6020B
7470A	=	mercury via EPA Method 7470A
X	=	Sample was analyzed for the method indicated in the column header.

Attachment B
Qualified Results Summary

Table B-1 Qualified Results Summary								
SDG	**Method**	**Sample Identification**	**Analyte**	**Result**	**Unit**	**Reporting Limit**	**Validation Qualifier**	**RC**
715698	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Magnesium	150	mg/L	3	J	FD1
715698	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Potassium	80.3	mg/L	30	J	FD2
715597	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Selenium	0.005U	mg/L	0.005	UJ	MS1
715698	EPA 6020B	MCM-AP1-FD-01-WG-20250318	Sodium	1710	mg/L	25	J	FD1
715698	EPA 6020B	MCM-MCM-17-WG-20250318	Magnesium	77	mg/L	1.5	J	FD1
715698	EPA 6020B	MCM-MCM-17-WG-20250318	Potassium	41.5	mg/L	15	J	FD2
715698	EPA 6020B	MCM-MCM-17-WG-20250318	Selenium	0.005U	mg/L	0.005	UJ	MS1
715698	EPA 6020B	MCM-MCM-17-WG-20250318	Sodium	899	mg/L	12.5	J	FD1

Notes:

No bias was assigned when multiple qualifiers with opposing biases were applied to the same result.

SDG = sample delivery group
RC = reason code
EPA = Environmental Protection Agency
mg/L = milligrams per liter
U = The result is nondetect.

Validation Qualifier Definitions:

J = Detected result was qualified as estimated and the bias is indeterminable.
UJ = Nondetect result was qualified as estimated and may be biased low.

Reason Code Definitions:

FD1 = field duplicate relative percent difference outlier
FD2 = field duplicate absolute difference outlier
MS1 = matrix spike/matrix spike duplicate percent recovery outlier

VALIDATION SUMMARY

This report summarizes data validation findings for the March 2025 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data was validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between March 17 and 20, 2025. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods, consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020).

- Multi-Agency Radiological Laboratory Analytical Protocols Manual (United States Environmental Protection Agency, July 2004).

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, were performed on samples from sample delivery groups 715609 and 716383. Table A-1 in Attachment A provides a summary of all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample/laboratory control sample duplicate
* Tracers
* Matrix spike
  Laboratory duplicates
* Laboratory blanks
  Field blanks (equipment and field)
  Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met, or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Laboratory Duplicates

Laboratory duplicates were within the acceptable relative percent difference for results greater than or equal to five-times the reporting limit (RL). When results were less than five times the RL, the difference was evaluated with a control limit of one time the RL for water samples. Table 1 (absolute differences) displays the qualified result and the resulting qualification.

Table 1
Laboratory Duplicate Absolute Difference Outliers

SDG	Method	Sample ID	Analyte	Difference	Control Limit	Qualifier	RC
715609	EPA 903.1	MCM-MCM-19-WG-20250319	Radium-226	2.23	0.857	J	LD2

Notes:

SDG = sample delivery group
ID = identification
RC = reason code
EPA = Environmental Protection Agency
J = Detected result was qualified as estimated and the bias is indeterminable.
LD2 = laboratory duplicate absolute difference outlier

Field Blanks

Field and equipment blanks were free from contamination with the exceptions noted in Table 2, with the resulting qualifications.

Table 2
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (pCi/L)	Samples Qualified	Sample Result (pCi/L)	Sample RL (pCi/L)	Qual	RC
715609	EPA 903.1	MCM-AP1-EB-01-WQ-20250317	Radium-226	0.67	MCM-AP1-FD-02-WG-20250320	2.94	0.365	J+	BEH
					MCM-DPZ-02-WG-20250318	3.7	0.703		
					MCM-MCM-01-WG-20250318	0.497	0.388		
					MCM-MCM-02-WG-20250320	0.748	0.35		
					MCM-MCM-04-WG-20250320	1.92	0.418		
					MCM-MCM-05-WG-20250319	2.55	0.389		
					MCM-MCM-06-WG-20250319	4.22	0.512		
					MCM-MCM-07-WG-20250319	1.97	0.446		
					MCM-MCM-12-WG-20250317	0.832	0.531		
					MCM-MCM-14-WG-20250317	2.11	0.448		
					MCM-MCM-15-WG-20250320	1.32	0.668		
					MCM-MCM-16-WG-20250320	0.674	0.451		
					MCM-MCM-18-WG-20250319	3.93	0.502		
					MCM-MCM-19-WG-20250319	3.07	0.857		
					MCM-MCM-20-WG-20250319	2.36	0.467		
					MCM-AP1-FD-01-WG-20250318	2.58	0.382		
					MCM-MCM-11-WG-20250318	0.67	0.598		
					MCM-MCM-17-WG-20250318	3.4	0.346		
715609	CALC	MCM-AP1-EB-01-WQ-20250317	Radium-226+228 Sum	2.16	MCM-AP1-FD-02-WG-20250320	5.56	1.31	J+	BEH
					MCM-DPZ-02-WG-20250318	4.64	2.06		
					MCM-MCM-04-WG-20250320	3.92	2.15		
					MCM-MCM-05-WG-20250319	5.29	1.34		

Table 2
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (pCi/L)	Samples Qualified	Sample Result (pCi/L)	Sample RL (pCi/L)	Qual	RC
715609 Cont.	CALC	MCM-AP1-EB-01-WQ-20250317	Radium-226+228 Sum	2.16	MCM-MCM-06-WG-20250319	8.33	1.53	J+	BEH
					MCM-MCM-07-WG-20250319	4.55	1.5		
					MCM-MCM-12-WG-20250317	3.37	2.58		
					MCM-MCM-14-WG-20250317	6.6	1.42		
					MCM-MCM-16-WG-20250320	1.52	1.44		
					MCM-MCM-18-WG-20250319	7.26	1.49		
					MCM-MCM-19-WG-20250319	19.2	1.53		
					MCM-AP1-FD-01-WG-20250318	4.56	2.15		
					MCM-MCM-17-WG-20250318	6.41	1.42		
715609	EPA 904.0	MCM-AP1-EB-02-WQ-20250320	Radium-228	2.12	MCM-AP1-FD-02-WG-20250320	2.63	1.31	J+	BEH
					MCM-MCM-05-WG-20250319	2.74	1.34		
					MCM-MCM-06-WG-20250319	4.1	1.53		
					MCM-MCM-07-WG-20250319	2.58	1.5		
					MCM-MCM-14-WG-20250317	4.49	1.42		
					MCM-MCM-18-WG-20250319	3.33	1.49		
					MCM-MCM-19-WG-20250319	16.1	1.53		
					MCM-MCM-17-WG-20250318	3.01	1.42		
715609	CALC	MCM-AP1-EB-02-WQ-20250320	Radium-226+228 Sum	2.17	MCM-AP1-FD-02-WG-20250320	5.56	1.31	J+	BEH
					MCM-DPZ-02-WG-20250318	4.64	2.06		
					MCM-MCM-04-WG-20250320	3.92	2.15		
					MCM-MCM-05-WG-20250319	5.29	1.34		
					MCM-MCM-06-WG-20250319	8.33	1.53		
					MCM-MCM-07-WG-20250319	4.55	1.5		
					MCM-MCM-12-WG-20250317	3.37	2.58		
					MCM-MCM-14-WG-20250317	6.6	1.42		
					MCM-MCM-16-WG-20250320	1.52	1.44		
					MCM-MCM-18-WG-20250319	7.26	1.49		
					MCM-MCM-19-WG-20250319	19.2	1.53		
					MCM-AP1-FD-01-WG-20250318	4.56	2.15		
					MCM-MCM-17-WG-20250318	6.41	1.42		
715609	EPA 903.1	MCM-AP1-FB-02-WQ-20250320	Radium-226	0.866	MCM-AP1-FD-02-WG-20250320	2.94	0.365	J+	BF2
					MCM-DPZ-02-WG-20250318	3.7	0.703		
					MCM-MCM-01-WG-20250318	0.497	0.388		
					MCM-MCM-02-WG-20250320	0.748	0.35		
					MCM-MCM-04-WG-20250320	1.92	0.418		
					MCM-MCM-05-WG-20250319	2.55	0.389		
					MCM-MCM-06-WG-20250319	4.22	0.512		
					MCM-MCM-07-WG-20250319	1.97	0.446		
					MCM-MCM-12-WG-20250317	0.832	0.531		
					MCM-MCM-14-WG-20250317	2.11	0.448		
					MCM-MCM-15-WG-20250320	1.32	0.668		
					MCM-MCM-16-WG-20250320	0.674	0.451		
					MCM-MCM-18-WG-20250319	3.93	0.502		
					MCM-MCM-19-WG-20250319	3.07	0.857		
					MCM-MCM-20-WG-20250319	2.36	0.467		
					MCM-AP1-FD-01-WG-20250318	2.58	0.382		
					MCM-MCM-11-WG-20250318	0.67	0.598		
					MCM-MCM-17-WG-20250318	3.4	0.346		

Notes:

SDG = sample delivery group
ID = identification
pCi/L = picocuries per liter
RL = reporting limit
Qual = validation qualifier
RC = reason code
EPA = Environmental Protection Agency

J+ = Detect result was qualified an estimated and may be biased high.
BEH = equipment blank contamination greater than or equal to the reporting limit
BF2 = field blank contamination greater than or equal to the reporting limit

Field Duplicates

The relative percent differences of field duplicate samples were evaluated against an acceptance criterion of 20% when both the results were greater than five times the RL. When one or both samples' results were less than five times the RL, the difference between the results was evaluated using a difference limit of the RL. Table 3 (relative percent difference) and Table 4 (absolute differences) display the qualified results and the resulting qualification.

Table 3
Field Duplicate Relative Percent Difference Outliers

SDG	Method	Sample ID / Field Duplicate ID	Analyte	Sample Result (pCi/L)	Duplicate Result (pCi/L)	RPD	RPD Limit	Qual	RC
716383	EPA 903.1	MCM-MCM-17-WG-20250318/ MCM-AP1-FD-01-WG-20250318	Radium-226	3.4	2.58	27	20	J	FD1

Notes:
SDG = sample delivery group
ID = identification
pCi/L = picocuries per liter
RPD = relative percent difference
Qual = validation qualifier
RC = reason code
EPA = Environmental Protection Agency
J = Detected result was qualified as estimated and the bias is indeterminable.
FD1 = field duplicate relative percent difference outlier

Table 4
Field Duplicate Absolute Difference Outliers

SDG	Method	Sample ID/ Field Duplicate ID	Analyte	Sample Result (pCi/L)	Duplicate Result (pCi/L)	Diff	Limit	Qual	RC
715609	EPA 903.1	MCM-MCM-04-WG-20250320 / MCM-AP1-FD-02-WG-20250320	Radium-226	1.92	2.94	1.02	0.418	J	FD2
716383	CALC	MCM-MCM-17-WG-20250318/ MCM-AP1-FD-01-WG-20250318	Radium-226+228 Sum	6.41	4.56	1.85	1.42	J	FD2

Notes:
SDG = sample delivery group
ID = identification
pCi/L = picocuries per liter
Diff = absolute difference
Qual = validation qualifier
RC = reason code
EPA = Environmental Protection Agency
J = Detected result was qualified as estimated and the bias is indeterminable.
FD2 = field duplicate absolute difference outlier

Overall Assessment

The data from the March 2025 sampling event were reviewed independently from the laboratory to assess data quality. Table B-1 in Attachment B provides a summary of the qualified results.

Attachment A
Sample and Analysis Summary

Table A-1 Sample and Analysis Summary						
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 903.1**	**EPA 904.0**	**CALC**
715609	MCM-AP1-EB-01-WQ-20250317	03/17/2025	Equipment Blank	X	X	X
715609	MCM-AP1-EB-02-WQ-20250320	03/20/2025	Equipment Blank	X	X	X
715609	MCM-AP1-FB-01-WQ-20250317	03/17/2025	Field Blank	X	X	X
715609	MCM-AP1-FB-02-WQ-20250320	03/20/2025	Field Blank	X	X	X
715609	MCM-AP1-FD-02-WG-20250320	03/20/2025	Duplicate of MCM-MCM-04-WG-20250320	X	X	X
715609	MCM-DPZ-02-WG-20250318	03/18/2025	Groundwater	X	X	X
715609	MCM-MCM-01-WG-20250318	03/18/2025	Groundwater	X	X	X
715609	MCM-MCM-02-WG-20250320	03/20/2025	Groundwater	X	X	X
715609	MCM-MCM-04-WG-20250320	03/20/2025	Groundwater	X	X	X
715609	MCM-MCM-05-WG-20250319	03/19/2025	Groundwater	X	X	X
715609	MCM-MCM-06-WG-20250319	03/19/2025	Groundwater	X	X	X
715609	MCM-MCM-07-WG-20250319	03/19/2025	Groundwater	X	X	X
715609	MCM-MCM-12-WG-20250317	03/17/2025	Groundwater	X	X	X
715609	MCM-MCM-14-WG-20250317	03/17/2025	Groundwater	X	X	X
715609	MCM-MCM-15-WG-20250320	03/20/2025	Groundwater	X	X	X
715609	MCM-MCM-16-WG-20250320	03/20/2025	Groundwater	X	X	X
715609	MCM-MCM-18-WG-20250319	03/19/2025	Groundwater	X	X	X
715609	MCM-MCM-19-WG-20250319	03/19/2025	Groundwater	X	X	X
715609	MCM-MCM-20-WG-20250319	03/19/2025	Groundwater	X	X	X
716383	MCM-AP1-FD-01-WG-20250318	03/18/2025	Duplicate of MCM-MCM-17-WG-20250318	X	X	X
716383	MCM-MCM-11-WG-20250318	03/18/2025	Groundwater	X	X	X
716383	MCM-MCM-17-WG-20250318	03/18/2025	Groundwater	X	X	X

Notes:

SDG	=	sample delivery group
ID	=	identification
EPA	=	Environmental Protection Agency
903.1	=	radium-226 via EPA Method 903.1
904.0	=	radium-228 via EPA Method 904.0
CALC	=	combined radium-226 and 228 by calculation
X	=	Sample was analyzed for the method indicated in the column header.

Attachment B
Qualified Results Summary

Table B-1 Qualified Results Summary								
SDG	**Method**	**Sample Identification**	**Analyte**	**Result**	**Unit**	**Reporting Limit**	**Validation Qualifier**	**RC**
715609	EPA 903.1	MCM-AP1-FD-02-WG-20250320	Radium-226	2.94	pCi/L	0.365	J	FD2,BEH,BF2
715609	EPA 904.0	MCM-AP1-FD-02-WG-20250320	Radium-228	2.63	pCi/L	1.31	J+	BEH
715609	CALC	MCM-AP1-FD-02-WG-20250320	Radium-226+228 Sum	5.56	pCi/L	1.31	J+	BEH
715609	EPA 903.1	MCM-DPZ-02-WG-20250318	Radium-226	3.7	pCi/L	0.703	J+	BEH,BF2
715609	CALC	MCM-DPZ-02-WG-20250318	Radium-226+228 Sum	4.64	pCi/L	2.06	J+	BEH
715609	EPA 903.1	MCM-MCM-01-WG-20250318	Radium-226	0.497	pCi/L	0.388	J+	BEH,BF2
715609	EPA 903.1	MCM-MCM-02-WG-20250320	Radium-226	0.748	pCi/L	0.35	J+	BEH,BF2
715609	EPA 903.1	MCM-MCM-04-WG-20250320	Radium-226	1.92	pCi/L	0.418	J	FD2,BEH,BF2
715609	CALC	MCM-MCM-04-WG-20250320	Radium-226+228 Sum	3.92	pCi/L	2.15	J+	BEH
715609	EPA 903.1	MCM-MCM-05-WG-20250319	Radium-226	2.55	pCi/L	0.389	J+	BEH,BF2
715609	EPA 904.0	MCM-MCM-05-WG-20250319	Radium-228	2.74	pCi/L	1.34	J+	BEH
715609	CALC	MCM-MCM-05-WG-20250319	Radium-226+228 Sum	5.29	pCi/L	1.34	J+	BEH
715609	EPA 903.1	MCM-MCM-06-WG-20250319	Radium-226	4.22	pCi/L	0.512	J+	BEH,BF2
715609	EPA 904.0	MCM-MCM-06-WG-20250319	Radium-228	4.1	pCi/L	1.53	J+	BEH
715609	CALC	MCM-MCM-06-WG-20250319	Radium-226+228 Sum	8.33	pCi/L	1.53	J+	BEH
715609	EPA 903.1	MCM-MCM-07-WG-20250319	Radium-226	1.97	pCi/L	0.446	J+	BEH,BF2
715609	EPA 904.0	MCM-MCM-07-WG-20250319	Radium-228	2.58	pCi/L	1.5	J+	BEH
715609	CALC	MCM-MCM-07-WG-20250319	Radium-226+228 Sum	4.55	pCi/L	1.5	J+	BEH
715609	EPA 903.1	MCM-MCM-12-WG-20250317	Radium-226	0.832	pCi/L	0.531	J+	BEH,BF2
715609	CALC	MCM-MCM-12-WG-20250317	Radium-226+228 Sum	3.37	pCi/L	2.58	J+	BEH
715609	EPA 903.1	MCM-MCM-14-WG-20250317	Radium-226	2.11	pCi/L	0.448	J+	BEH,BF2
715609	EPA 904.0	MCM-MCM-14-WG-20250317	Radium-228	4.49	pCi/L	1.42	J+	BEH
715609	CALC	MCM-MCM-14-WG-20250317	Radium-226+228 Sum	6.6	pCi/L	1.42	J+	BEH
715609	EPA 903.1	MCM-MCM-15-WG-20250320	Radium-226	1.32	pCi/L	0.668	J+	BEH,BF2
715609	EPA 903.1	MCM-MCM-16-WG-20250320	Radium-226	0.674	pCi/L	0.451	J+	BEH,BF2
715609	CALC	MCM-MCM-16-WG-20250320	Radium-226+228 Sum	1.52	pCi/L	1.44	J+	BEH
715609	EPA 903.1	MCM-MCM-18-WG-20250319	Radium-226	3.93	pCi/L	0.502	J+	BEH,BF2
715609	EPA 904.0	MCM-MCM-18-WG-20250319	Radium-228	3.33	pCi/L	1.49	J+	BEH
715609	CALC	MCM-MCM-18-WG-20250319	Radium-226+228 Sum	7.26	pCi/L	1.49	J+	BEH
715609	EPA 903.1	MCM-MCM-19-WG-20250319	Radium-226	3.07	pCi/L	0.857	J	LD2,BEH,BF2
715609	EPA 904.0	MCM-MCM-19-WG-20250319	Radium-228	16.1	pCi/L	1.53	J+	BEH
715609	CALC	MCM-MCM-19-WG-20250319	Radium-226+228 Sum	19.2	pCi/L	1.53	J+	BEH
715609	EPA 903.1	MCM-MCM-20-WG-20250319	Radium-226	2.36	pCi/L	0.467	J+	BEH,BF2
716383	EPA 903.1	MCM-AP1-FD-01-WG-20250318	Radium-226	2.58	pCi/L	0.382	J	FD1,BEH,BF2
716383	CALC	MCM-AP1-FD-01-WG-20250318	Radium-226+228 Sum	4.56	pCi/L	2.15	J	FD2,BEH
716383	EPA 903.1	MCM-MCM-11-WG-20250318	Radium-226	0.67	pCi/L	0.598	J+	BEH,BF2
716383	EPA 903.1	MCM-MCM-17-WG-20250318	Radium-226	3.4	pCi/L	0.346	J	FD1,BEH,BF2

Table B-1 Qualified Results Summary								
SDG	**Method**	**Sample Identification**	**Analyte**	**Result**	**Unit**	**Reporting Limit**	**Validation Qualifier**	**RC**
716383	EPA 904.0	MCM-MCM-17-WG-20250318	Radium-228	3.01	pCi/L	1.42	J+	BEH
716383	CALC	MCM-MCM-17-WG-20250318	Radium-226+228 Sum	6.41	pCi/L	1.42	J	FD2,BEH

Notes:

No bias was assigned when multiple qualifiers with opposing biases were applied to the same result.

SDG = sample delivery group
RC = reason code
EPA = Environmental Protection Agency
CALC = combined radium-226+228 by calculation
pCi/L = picocuries per liter

Qualifier Definitions:

J = Detected result was qualified as estimated and the bias is indeterminable.
J+ = Detect result was qualified an estimated and may be biased high.

Reason Code Definitions:

FD2 = field duplicate absolute difference outlier
BEH = equipment blank contamination greater than or equal to the reporting limit
BF2 = field blank contamination greater than or equal to the reporting limit
LD2 = laboratory duplicate absolute difference outlier
FD1 = field duplicate relative percent difference outlier

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 03/17/2025

Calibrated By: Jay Siewert

Field Conditions: 65°/45°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	884189
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	~~24006003~~ 24011792	~~05/2025~~ 06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	14:24	**Time Finish**	14:52		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.92	21.33	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,721.10	20.71	± 10% of standard	EPA 2023
pH (SU)	4.00	3.92	21.50	± 0.1	GWMP
pH (SU)	7.00	6.54	21.32	± 0.1	GWMP
pH (SU)	10.00	9.82	21.31	± 0.1	GWMP
ORP (mV)	228.0	232.60	21.08	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.08		
	10.00	10.30		

Calibration Check					
Time Start	18:00	**Time Finish**	18:07		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,547.50	21.25	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	21.24	± 0.1	GWMP
pH (SU)	7.00	7.14	22.25	± 0.1	GWMP
pH (SU)	10.00	10.08	24.36	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.12		

Notes:

Start of Day:

End of Day:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 03/18/2025

Calibrated By: Jay Siewert

Field Conditions: 70°/45°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	884189
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	~~24006985~~ 24011792	~~05/2025~~ 06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:20	Time Finish	08:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.40	7.90	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,602.30	8.18	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	8.26	± 0.1	GWMP
pH (SU)	7.00	7.04	8.95	± 0.1	GWMP
pH (SU)	10.00	10.12	9.38	± 0.1	GWMP
ORP (mV)	228.0	246.70	9.38	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	9.84		

Calibration Check					
Time Start	18:21	Time Finish	18:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,558.90	20.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	20.21	± 0.1	GWMP
pH (SU)	7.00	7.08	19.28	± 0.1	GWMP
pH (SU)	10.00	10.14	19.55	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	10.67		

Notes:

Start of Day:

End of Day:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 03/19/2025

Calibrated By: Jay Siewert

Field Conditions: 79°/40°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	884189
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	~~24006003~~ 24011792	~~05/2025~~ 06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:44	**Time Finish**	10:01		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	103.26	14.51	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,275.20	14.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	15.06	± 0.1	GWMP
pH (SU)	7.00	7.05	16.48	± 0.1	GWMP
pH (SU)	10.00	10.04	15.98	± 0.1	GWMP
ORP (mV)	228.0	225.20	15.53	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	10.80		

Calibration Check					
Time Start	16:32	**Time Finish**	16:40		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,669.10	23.11	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	23.08	± 0.1	GWMP
pH (SU)	7.00	6.94	24.02	± 0.1	GWMP
pH (SU)	10.00	9.88	22.86	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.71		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/20/2025

Calibrated By: Jay Siewert

Field Conditions: 75°/44°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	884189
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	~~24006903~~ 24011792	~~05/2025~~ 06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	11:16	Time Finish	11:34		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.04	20.35	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,500.10	20.07	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	21.11	± 0.1	GWMP
pH (SU)	7.00	6.88	20.57	± 0.1	GWMP
pH (SU)	10.00	9.78	20.39	± 0.1	GWMP
ORP (mV)	228.0	237.90	21.49	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	10.63		

Calibration Check					
Time Start	17:46	Time Finish	17:54		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,601.20	22.31	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	21.99	± 0.1	GWMP
pH (SU)	7.00	7.07	21.21	± 0.1	GWMP
pH (SU)	10.00	10.11	21.00	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.66		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/17/2025

Calibrated By: Natalie Piparo

Field Conditions: H 64, L 50

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	14:26	**Time Finish**	14:41		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.33	20.35	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,332.50	19.95	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	19.95	± 0.1	GWMP
pH (SU)	7.00	7.07	18.25	± 0.1	GWMP
pH (SU)	10.00	9.92	18.88	± 0.1	GWMP
ORP (mV)	228.0	235.30	18.79	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.08	± 10% of standard	EPA 2023
	1.00	1.13		
	10.00	10.47		

Calibration Check					
Time Start	17:55	**Time Finish**	18:01		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,374.30	19.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	19.41	± 0.1	GWMP
pH (SU)	7.00	7.15	19.32	± 0.1	GWMP
pH (SU)	10.00	10.30	19.99	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	10.33		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/18/2025

Calibrated By: Natalie Piparo

Field Conditions: H 70, L 43

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.27	8.57	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,341.80	8.67	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	8.74	± 0.1	GWMP
pH (SU)	7.00	7.02	8.89	± 0.1	GWMP
pH (SU)	10.00	10.19	9.25	± 0.1	GWMP
ORP (mV)	228.0	243.20	9.47	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.03	± 10% of standard	EPA 2023
	1.00	1.14		
	10.00	9.92		

Calibration Check					
Time Start	18:19	**Time Finish**	18:28		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,521.30	21.02	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	20.99	± 0.1	GWMP
pH (SU)	7.00	7.22	21.32	± 0.1	GWMP
pH (SU)	10.00	10.21	22.01	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.16		
	10.00	10.24		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/19/2025

Calibrated By: Natalie Piparo

Field Conditions: H 78, L 44

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:30		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.92	9.21	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,485.50	10.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.23	± 0.1	GWMP
pH (SU)	7.00	7.05	10.45	± 0.1	GWMP
pH (SU)	10.00	10.05	9.85	± 0.1	GWMP
ORP (mV)	228.0	228.20	9.89	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.05	± 10% of standard	EPA 2023
	1.00	1.16		
	10.00	10.11		

Calibration Check					
Time Start	15:31	**Time Finish**	15:42		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,264.40	23.18	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	23.12	± 0.1	GWMP
pH (SU)	7.00	7.20	22.85	± 0.1	GWMP
pH (SU)	10.00	10.18	23.69	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.12		
	10.00	10.38		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/20/2025

Calibrated By: Natalie Piparo

Field Conditions: H 75, L 51

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	11:18	**Time Finish**	11:34		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	103.53	17.77	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,223.20	17.48	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	17.99	± 0.1	GWMP
pH (SU)	7.00	7.00	17.55	± 0.1	GWMP
pH (SU)	10.00	10.07	16.65	± 0.1	GWMP
ORP (mV)	228.0	219.40	15.97	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.20		

Calibration Check					
Time Start	17:59	**Time Finish**	18:05		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,552.20	22.17	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	22.09	± 0.1	GWMP
pH (SU)	7.00	7.25	22.10	± 0.1	GWMP
pH (SU)	10.00	10.28	22.45	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.42		
	10.00	10.39		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 3/17/2025 3:45:39 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.11 ft** **Total Depth: 28.11 ft** **Initial Depth to Water: 9.86 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.11 ft** **Estimated Total Volume Pumped: 7700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/17/2025 3:45 PM	00:00	6.37 pH	22.50 °C	8,486.7 µS/cm	0.37 mg/L	0.79 NTU	-189.1 mV	9.93 ft	4.79 PSU	220.00 ml/min
3/17/2025 3:50 PM	05:00	6.38 pH	22.00 °C	9,754.5 µS/cm	0.17 mg/L	0.51 NTU	-263.8 mV	9.94 ft	5.56 PSU	220.00 ml/min
3/17/2025 3:55 PM	10:00	6.39 pH	22.09 °C	10,151 µS/cm	0.15 mg/L	0.69 NTU	-214.0 mV	9.98 ft	5.80 PSU	220.00 ml/min
3/17/2025 4:00 PM	15:00	6.41 pH	22.13 °C	10,546 µS/cm	0.14 mg/L	0.36 NTU	-215.6 mV	9.96 ft	6.04 PSU	220.00 ml/min
3/17/2025 4:05 PM	20:00	6.43 pH	22.22 °C	10,778 µS/cm	0.13 mg/L	0.40 NTU	-216.5 mV	9.94 ft	6.19 PSU	220.00 ml/min
3/17/2025 4:10 PM	25:00	6.44 pH	22.23 °C	10,875 µS/cm	0.12 mg/L	0.27 NTU	-217.2 mV	9.96 ft	6.25 PSU	220.00 ml/min
3/17/2025 4:15 PM	30:00	6.44 pH	22.27 °C	10,904 µS/cm	0.12 mg/L	0.30 NTU	-217.5 mV	9.99 ft	6.27 PSU	220.00 ml/min
3/17/2025 4:20 PM	35:00	6.44 pH	22.31 °C	10,921 µS/cm	0.12 mg/L	0.26 NTU	-217.4 mV	9.97 ft	6.28 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-14	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/17/2025 3:53:56 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19 ft** **Total Depth: 29 ft** **Initial Depth to Water: 8.47 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 14600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 2.91 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/17/2025 3:53 PM	00:00	6.47 pH	21.70 °C	1,897.4 µS/cm	-0.01 mg/L	3.01 NTU	-80.0 mV	10.36 ft	0.98 PSU	210.00 ml/min
3/17/2025 3:58 PM	05:00	6.47 pH	21.36 °C	1,932.0 µS/cm	-0.02 mg/L	4.54 NTU	-73.1 mV	10.65 ft	0.99 PSU	210.00 ml/min
3/17/2025 4:03 PM	10:00	6.47 pH	21.41 °C	1,985.0 µS/cm	-0.03 mg/L	5.62 NTU	-73.6 mV	10.79 ft	1.02 PSU	210.00 ml/min
3/17/2025 4:08 PM	15:00	6.49 pH	21.52 °C	1,994.9 µS/cm	-0.03 mg/L	6.29 NTU	-73.7 mV	10.70 ft	1.03 PSU	210.00 ml/min
3/17/2025 4:13 PM	20:00	6.49 pH	21.66 °C	1,975.5 µS/cm	-0.03 mg/L	6.56 NTU	-73.7 mV	10.42 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:18 PM	25:00	6.49 pH	21.69 °C	1,982.8 µS/cm	-0.03 mg/L	6.98 NTU	-75.2 mV	10.42 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:23 PM	30:00	6.50 pH	21.73 °C	1,981.4 µS/cm	-0.03 mg/L	6.41 NTU	-75.0 mV	10.48 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:28 PM	35:00	6.50 pH	21.78 °C	1,983.4 µS/cm	-0.03 mg/L	5.92 NTU	-74.7 mV	10.51 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:33 PM	40:00	6.49 pH	21.72 °C	1,972.2 µS/cm	-0.03 mg/L	5.91 NTU	-73.3 mV	10.59 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:38 PM	45:00	6.49 pH	21.74 °C	1,981.4 µS/cm	-0.03 mg/L	5.88 NTU	-73.6 mV	10.59 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:43 PM	50:00	6.49 pH	21.63 °C	1,981.2 µS/cm	-0.03 mg/L	5.71 NTU	-71.5 mV	10.63 ft	1.02 PSU	160.00 ml/min
3/17/2025 4:48 PM	55:00	6.49 pH	21.58 °C	1,991.4 µS/cm	-0.03 mg/L	5.62 NTU	-70.7 mV	10.70 ft	1.03 PSU	160.00 ml/min
3/17/2025 4:53 PM	01:00:00	6.49 pH	21.50 °C	1,996.5 µS/cm	-0.03 mg/L	5.58 NTU	-69.4 mV	10.82 ft	1.03 PSU	160.00 ml/min
3/17/2025 4:58 PM	01:05:00	6.48 pH	21.41 °C	1,983.7 µS/cm	-0.03 mg/L	5.43 NTU	-70.2 mV	11.10 ft	1.02 PSU	160.00 ml/min
3/17/2025 5:03 PM	01:10:00	6.48 pH	21.41 °C	1,992.6 µS/cm	-0.03 mg/L	5.44 NTU	-70.9 mV	11.25 ft	1.03 PSU	160.00 ml/min

3/17/2025 5:08 PM	01:15:00	6.49 pH	21.41 °C	1,987.9 µS/cm	-0.04 mg/L	5.21 NTU	-71.7 mV	11.33 ft	1.02 PSU	160.00 ml/min
3/17/2025 5:13 PM	01:20:00	6.49 pH	21.31 °C	1,931.3 µS/cm	-0.04 mg/L	5.04 NTU	-72.6 mV	11.37 ft	0.99 PSU	160.00 ml/min
3/17/2025 5:18 PM	01:25:00	6.49 pH	21.37 °C	1,991.5 µS/cm	-0.03 mg/L	4.83 NTU	-72.5 mV	11.38 ft	1.03 PSU	160.00 ml/min

Samples

Sample ID:	Description:
MCM-12	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/18/2025 9:34:31 AM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.44 ft** **Total Depth: 27.44 ft** **Initial Depth to Water: 9.24 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.44 ft** **Estimated Total Volume Pumped: 10500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/18/2025 9:34 AM	00:00	6.39 pH	21.69 °C	9,267.7 µS/cm	0.07 mg/L	7.50 NTU	-209.8 mV	9.27 ft	5.26 PSU	210.00 ml/min
3/18/2025 9:39 AM	05:00	6.40 pH	21.65 °C	9,312.1 µS/cm	0.04 mg/L	8.29 NTU	-211.5 mV	9.27 ft	5.29 PSU	210.00 ml/min
3/18/2025 9:44 AM	10:00	6.39 pH	21.80 °C	9,437.7 µS/cm	0.03 mg/L	7.19 NTU	-158.8 mV	9.28 ft	5.36 PSU	210.00 ml/min
3/18/2025 9:49 AM	15:00	6.40 pH	21.91 °C	9,467.6 µS/cm	0.02 mg/L	6.90 NTU	-158.4 mV	9.26 ft	5.38 PSU	210.00 ml/min
3/18/2025 9:54 AM	20:00	6.40 pH	21.86 °C	9,483.9 µS/cm	0.02 mg/L	6.59 NTU	-157.8 mV	9.25 ft	5.39 PSU	210.00 ml/min
3/18/2025 9:59 AM	25:00	6.42 pH	21.96 °C	9,541.9 µS/cm	0.02 mg/L	5.48 NTU	-158.1 mV	9.25 ft	5.43 PSU	210.00 ml/min
3/18/2025 10:04 AM	30:00	6.44 pH	21.89 °C	9,548.7 µS/cm	0.02 mg/L	5.06 NTU	-158.1 mV	9.23 ft	5.43 PSU	210.00 ml/min
3/18/2025 10:09 AM	35:00	6.47 pH	21.86 °C	9,506.8 µS/cm	0.02 mg/L	5.28 NTU	-158.9 mV	9.21 ft	5.40 PSU	210.00 ml/min
3/18/2025 10:14 AM	40:00	6.51 pH	21.90 °C	9,547.7 µS/cm	0.02 mg/L	4.88 NTU	-159.9 mV	9.20 ft	5.43 PSU	210.00 ml/min
3/18/2025 10:19 AM	45:00	6.55 pH	22.02 °C	9,601.3 µS/cm	0.02 mg/L	4.73 NTU	-160.5 mV	9.19 ft	5.46 PSU	210.00 ml/min
3/18/2025 10:24 AM	50:00	6.59 pH	22.09 °C	9,614.9 µS/cm	0.02 mg/L	4.05 NTU	-161.6 mV	9.17 ft	5.47 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-17	Metals, Inorganics, Alkalinity, TDS, Radium

FD-01	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/18/2025 9:55:31 AM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: DPZ-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 38.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 8.04 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 40.96 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/18/2025 9:55 AM	00:00	7.15 pH	21.69 °C	13,166 µS/cm	1.49 mg/L	1.01 NTU	-214.4 mV	8.05 ft	7.68 PSU	240.00 ml/min
3/18/2025 10:00 AM	05:00	7.18 pH	20.59 °C	13,958 µS/cm	0.16 mg/L	0.37 NTU	-307.1 mV	8.00 ft	8.17 PSU	240.00 ml/min
3/18/2025 10:05 AM	10:00	7.19 pH	20.66 °C	13,923 µS/cm	0.13 mg/L	0.37 NTU	-240.6 mV	7.98 ft	8.15 PSU	240.00 ml/min
3/18/2025 10:10 AM	15:00	7.20 pH	20.71 °C	13,997 µS/cm	0.12 mg/L	0.28 NTU	-247.0 mV	7.93 ft	8.20 PSU	240.00 ml/min
3/18/2025 10:15 AM	20:00	7.20 pH	20.79 °C	14,073 µS/cm	0.10 mg/L	0.15 NTU	-242.2 mV	7.89 ft	8.24 PSU	240.00 ml/min
3/18/2025 10:20 AM	25:00	7.19 pH	20.87 °C	14,075 µS/cm	0.10 mg/L	0.14 NTU	-241.6 mV	7.87 ft	8.25 PSU	240.00 ml/min
3/18/2025 10:25 AM	30:00	7.20 pH	20.92 °C	14,069 µS/cm	0.09 mg/L	0.12 NTU	-241.2 mV	7.81 ft	8.24 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DPZ-02	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/18/2025 4:19:16 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.32 ft** **Total Depth: 27.32 ft** **Initial Depth to Water: 3.81 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.32 ft** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 8 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/18/2025 4:19 PM	00:00	5.53 pH	23.96 °C	128.90 µS/cm	0.37 mg/L	13.10 NTU	58.0 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:24 PM	05:00	4.99 pH	21.91 °C	131.97 µS/cm	0.18 mg/L	11.80 NTU	56.1 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:29 PM	10:00	4.99 pH	21.78 °C	132.42 µS/cm	0.15 mg/L	11.40 NTU	78.0 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:34 PM	15:00	5.00 pH	21.72 °C	131.85 µS/cm	0.15 mg/L	12.02 NTU	79.3 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:39 PM	20:00	5.02 pH	21.69 °C	132.27 µS/cm	0.16 mg/L	11.33 NTU	81.3 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:44 PM	25:00	5.03 pH	21.64 °C	132.76 µS/cm	0.15 mg/L	9.24 NTU	77.6 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:49 PM	30:00	5.05 pH	21.61 °C	132.93 µS/cm	0.15 mg/L	8.84 NTU	76.3 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:54 PM	35:00	5.08 pH	21.64 °C	133.43 µS/cm	0.14 mg/L	7.42 NTU	72.9 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 4:59 PM	40:00	5.11 pH	21.59 °C	133.68 µS/cm	0.14 mg/L	7.15 NTU	69.9 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:04 PM	45:00	5.11 pH	21.64 °C	133.47 µS/cm	0.13 mg/L	7.50 NTU	68.2 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:09 PM	50:00	5.12 pH	21.60 °C	133.56 µS/cm	0.13 mg/L	7.08 NTU	66.9 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:14 PM	55:00	5.11 pH	21.72 °C	133.49 µS/cm	0.13 mg/L	6.57 NTU	67.5 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:19 PM	01:00:00	5.14 pH	21.78 °C	133.94 µS/cm	0.12 mg/L	5.89 NTU	64.3 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:24 PM	01:05:00	5.15 pH	21.91 °C	133.92 µS/cm	0.13 mg/L	5.68 NTU	63.7 mV	3.83 ft	0.06 PSU	240.00 ml/min
3/18/2025 5:29 PM	01:10:00	5.15 pH	21.92 °C	133.22 µS/cm	0.13 mg/L	5.33 NTU	64.1 mV	3.83 ft	0.06 PSU	240.00 ml/min

3/18/2025 5:34 PM	01:15:00	5.14 pH	21.95 °C	132.99 µS/cm	0.13 mg/L	4.90 NTU	65.4 mV	3.83 ft	0.06 PSU	240.00 ml/min

Samples

Sample ID:	Description:
MCM-01	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/18/2025 4:51:53 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 4.3 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 6900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 1.72 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 11 L. Highly turbid (53 NTU), yellow-tan water at start of pre-purge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/18/2025 4:51 PM	00:00	5.08 pH	21.44 °C	113.86 µS/cm	0.02 mg/L	8.01 NTU	167.2 mV	6.05 ft	0.05 PSU	230.00 ml/min
3/18/2025 4:56 PM	05:00	5.07 pH	20.80 °C	116.06 µS/cm	0.03 mg/L	6.41 NTU	181.0 mV	6.04 ft	0.05 PSU	230.00 ml/min
3/18/2025 5:01 PM	10:00	5.07 pH	20.75 °C	115.75 µS/cm	0.02 mg/L	6.55 NTU	181.4 mV	6.04 ft	0.05 PSU	230.00 ml/min
3/18/2025 5:06 PM	15:00	5.06 pH	20.62 °C	115.80 µS/cm	0.02 mg/L	5.57 NTU	181.0 mV	6.04 ft	0.05 PSU	230.00 ml/min
3/18/2025 5:11 PM	20:00	5.06 pH	20.60 °C	115.94 µS/cm	0.02 mg/L	4.96 NTU	181.3 mV	6.03 ft	0.05 PSU	230.00 ml/min
3/18/2025 5:16 PM	25:00	5.06 pH	20.62 °C	115.71 µS/cm	0.02 mg/L	4.65 NTU	181.6 mV	6.02 ft	0.05 PSU	230.00 ml/min
3/18/2025 5:21 PM	30:00	5.06 pH	20.60 °C	115.98 µS/cm	0.02 mg/L	3.79 NTU	181.9 mV	6.02 ft	0.05 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-11	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/19/2025 10:17:49 AM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.75 ft** **Total Depth: 23.75 ft** **Initial Depth to Water: 7.51 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 18.75 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.58 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/19/2025 10:17 AM	00:00	6.58 pH	21.29 °C	8,958.4 µS/cm	1.75 mg/L	2.32 NTU	-153.2 mV	8.10 ft	5.07 PSU	200.00 ml/min
3/19/2025 10:22 AM	05:00	6.60 pH	19.97 °C	9,096.7 µS/cm	0.44 mg/L	1.37 NTU	-240.0 mV	8.11 ft	5.15 PSU	200.00 ml/min
3/19/2025 10:27 AM	10:00	6.61 pH	20.05 °C	9,186.0 µS/cm	0.22 mg/L	1.48 NTU	-257.9 mV	8.09 ft	5.20 PSU	200.00 ml/min
3/19/2025 10:32 AM	15:00	6.61 pH	20.17 °C	9,179.9 µS/cm	0.16 mg/L	1.30 NTU	-258.9 mV	8.08 ft	5.20 PSU	200.00 ml/min
3/19/2025 10:37 AM	20:00	6.61 pH	20.23 °C	9,246.3 µS/cm	0.12 mg/L	1.23 NTU	-258.4 mV	8.08 ft	5.24 PSU	200.00 ml/min
3/19/2025 10:42 AM	25:00	6.61 pH	20.17 °C	9,292.4 µS/cm	0.11 mg/L	1.21 NTU	-257.0 mV	8.09 ft	5.27 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/19/2025 11:12:03 AM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.32 ft** **Total Depth: 28.32 ft** **Initial Depth to Water: 6.98 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.32 ft** **Estimated Total Volume Pumped: 6400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/19/2025 11:12 AM	00:00	5.14 pH	20.42 °C	17,438 µS/cm	0.09 mg/L	11.85 NTU	47.7 mV	7.10 ft	10.40 PSU	220.00 ml/min
3/19/2025 11:17 AM	05:00	5.15 pH	20.22 °C	17,445 µS/cm	0.08 mg/L	11.22 NTU	50.2 mV	7.09 ft	10.40 PSU	220.00 ml/min
3/19/2025 11:22 AM	10:00	5.15 pH	20.41 °C	17,372 µS/cm	0.07 mg/L	10.44 NTU	42.0 mV	7.08 ft	10.35 PSU	220.00 ml/min
3/19/2025 11:27 AM	15:00	5.15 pH	20.43 °C	17,314 µS/cm	0.06 mg/L	10.27 NTU	39.7 mV	7.05 ft	10.32 PSU	220.00 ml/min
3/19/2025 11:32 AM	20:00	5.16 pH	20.40 °C	17,291 µS/cm	0.06 mg/L	4.71 NTU	37.5 mV	7.02 ft	10.30 PSU	200.00 ml/min
3/19/2025 11:37 AM	25:00	5.16 pH	20.49 °C	17,322 µS/cm	0.05 mg/L	4.47 NTU	34.9 mV	6.98 ft	10.32 PSU	200.00 ml/min
3/19/2025 11:42 AM	30:00	5.16 pH	20.61 °C	17,280 µS/cm	0.05 mg/L	4.37 NTU	33.3 mV	6.96 ft	10.30 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-19	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/19/2025 12:03:32 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.86 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/19/2025 12:03 PM	00:00	6.90 pH	27.61 °C	13,789 µS/cm	1.98 mg/L	4.99 NTU	-269.0 mV	7.79 ft	8.09 PSU	200.00 ml/min
3/19/2025 12:08 PM	05:00	7.03 pH	22.53 °C	14,615 µS/cm	0.13 mg/L	3.99 NTU	-279.3 mV	7.77 ft	8.60 PSU	200.00 ml/min
3/19/2025 12:13 PM	10:00	7.05 pH	22.09 °C	14,722 µS/cm	0.09 mg/L	2.59 NTU	-281.7 mV	7.73 ft	8.66 PSU	200.00 ml/min
3/19/2025 12:18 PM	15:00	7.06 pH	22.13 °C	14,652 µS/cm	0.07 mg/L	2.06 NTU	-283.9 mV	7.69 ft	8.62 PSU	200.00 ml/min
3/19/2025 12:23 PM	20:00	7.07 pH	22.22 °C	14,582 µS/cm	0.06 mg/L	1.79 NTU	-285.6 mV	7.66 ft	8.58 PSU	200.00 ml/min
3/19/2025 12:28 PM	25:00	7.07 pH	22.18 °C	14,619 µS/cm	0.05 mg/L	1.63 NTU	-285.5 mV	7.64 ft	8.60 PSU	200.00 ml/min
3/19/2025 12:33 PM	30:00	7.07 pH	22.25 °C	14,620 µS/cm	0.05 mg/L	1.35 NTU	-285.6 mV	7.61 ft	8.60 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/19/2025 12:56:18 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.05 ft** **Total Depth: 23.05 ft** **Initial Depth to Water: 7.57 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.05 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.58 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/19/2025 12:56 PM	00:00	3.91 pH	22.64 °C	15,492 µS/cm	0.14 mg/L	0.93 NTU	151.5 mV	8.11 ft	9.16 PSU	210.00 ml/min
3/19/2025 1:01 PM	05:00	3.86 pH	21.92 °C	15,697 µS/cm	0.11 mg/L	0.56 NTU	175.2 mV	8.12 ft	9.29 PSU	210.00 ml/min
3/19/2025 1:06 PM	10:00	3.85 pH	22.23 °C	15,537 µS/cm	0.07 mg/L	0.14 NTU	156.4 mV	8.14 ft	9.19 PSU	210.00 ml/min
3/19/2025 1:11 PM	15:00	3.83 pH	22.26 °C	15,310 µS/cm	0.06 mg/L	0.62 NTU	160.5 mV	8.14 ft	9.04 PSU	210.00 ml/min
3/19/2025 1:16 PM	20:00	3.83 pH	22.28 °C	15,201 µS/cm	0.05 mg/L	0.03 NTU	165.2 mV	8.15 ft	8.97 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-20	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/19/2025 1:55:44 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.05 ft** **Total Depth: 28.05 ft** **Initial Depth to Water: 6.77 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.05 ft** **Estimated Total Volume Pumped: 6750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/19/2025 1:55 PM	00:00	6.80 pH	30.88 °C	9,849.0 µS/cm	0.98 mg/L	0.91 NTU	-281.8 mV	6.96 ft	5.62 PSU	225.00 ml/min
3/19/2025 2:00 PM	05:00	6.89 pH	23.10 °C	12,329 µS/cm	0.11 mg/L	0.48 NTU	-288.9 mV	6.89 ft	7.16 PSU	225.00 ml/min
3/19/2025 2:05 PM	10:00	6.90 pH	22.76 °C	12,398 µS/cm	0.10 mg/L	0.48 NTU	-287.4 mV	6.88 ft	7.20 PSU	225.00 ml/min
3/19/2025 2:10 PM	15:00	6.90 pH	22.80 °C	12,383 µS/cm	0.09 mg/L	0.56 NTU	-286.7 mV	6.90 ft	7.19 PSU	225.00 ml/min
3/19/2025 2:15 PM	20:00	6.90 pH	22.76 °C	12,401 µS/cm	0.09 mg/L	0.50 NTU	-286.4 mV	6.93 ft	7.20 PSU	225.00 ml/min
3/19/2025 2:20 PM	25:00	6.91 pH	22.72 °C	12,417 µS/cm	0.09 mg/L	0.42 NTU	-286.1 mV	6.94 ft	7.21 PSU	225.00 ml/min
3/19/2025 2:25 PM	30:00	6.91 pH	22.77 °C	12,401 µS/cm	0.09 mg/L	0.40 NTU	-286.4 mV	6.95 ft	7.20 PSU	225.00 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/19/2025 3:06:36 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.86 ft** **Total Depth: 27.86 ft** **Initial Depth to Water: 5.56 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.86 ft** **Estimated Total Volume Pumped: 6600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/19/2025 3:06 PM	00:00	4.48 pH	22.03 °C	4,024.2 µS/cm	0.09 mg/L	0.56 NTU	76.5 mV	5.85 ft	2.16 PSU	220.00 ml/min
3/19/2025 3:11 PM	05:00	4.47 pH	21.72 °C	3,825.3 µS/cm	0.06 mg/L	0.58 NTU	70.5 mV	5.86 ft	2.05 PSU	220.00 ml/min
3/19/2025 3:16 PM	10:00	4.46 pH	21.88 °C	3,674.7 µS/cm	0.04 mg/L	1.81 NTU	70.8 mV	5.86 ft	1.96 PSU	220.00 ml/min
3/19/2025 3:21 PM	15:00	4.46 pH	21.57 °C	3,641.9 µS/cm	0.03 mg/L	0.45 NTU	69.4 mV	5.86 ft	1.94 PSU	220.00 ml/min
3/19/2025 3:26 PM	20:00	4.49 pH	21.40 °C	3,623.0 µS/cm	0.02 mg/L	1.12 NTU	69.0 mV	5.87 ft	1.93 PSU	220.00 ml/min
3/19/2025 3:31 PM	25:00	4.49 pH	21.30 °C	3,612.7 µS/cm	0.01 mg/L	1.46 NTU	67.3 mV	5.85 ft	1.92 PSU	220.00 ml/min
3/19/2025 3:36 PM	30:00	4.49 pH	21.25 °C	3,616.2 µS/cm	0.01 mg/L	0.75 NTU	65.7 mV	5.85 ft	1.93 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-18	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/20/2025 2:03:12 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 19 ft** **Top of Screen: 18.57 ft** **Total Depth: 28.57 ft** **Initial Depth to Water: 8.83 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.57 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/20/2025 2:03 PM	00:00	6.35 pH	25.05 °C	319.32 µS/cm	2.72 mg/L	2.83 NTU	175.4 mV	8.89 ft	0.15 PSU	280.00 ml/min
3/20/2025 2:08 PM	05:00	4.94 pH	21.01 °C	340.70 µS/cm	0.21 mg/L	1.69 NTU	122.3 mV	8.89 ft	0.16 PSU	280.00 ml/min
3/20/2025 2:13 PM	10:00	4.95 pH	20.85 °C	336.07 µS/cm	0.14 mg/L	1.63 NTU	118.8 mV	8.89 ft	0.16 PSU	280.00 ml/min
3/20/2025 2:18 PM	15:00	4.95 pH	20.84 °C	330.76 µS/cm	0.11 mg/L	1.19 NTU	120.0 mV	8.89 ft	0.16 PSU	280.00 ml/min
3/20/2025 2:23 PM	20:00	4.96 pH	20.84 °C	325.21 µS/cm	0.10 mg/L	0.87 NTU	120.8 mV	8.89 ft	0.16 PSU	280.00 ml/min
3/20/2025 2:28 PM	25:00	4.96 pH	20.88 °C	319.29 µS/cm	0.08 mg/L	0.67 NTU	113.1 mV	8.89 ft	0.15 PSU	280.00 ml/min
3/20/2025 2:33 PM	30:00	4.97 pH	20.87 °C	314.97 µS/cm	0.08 mg/L	0.62 NTU	105.6 mV	8.89 ft	0.15 PSU	280.00 ml/min

Samples

Sample ID:	Description:
MCM-04	Metals, Inorganics, Alkalinity, TDS, Radium
FD-02	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/20/2025 2:17:55 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.35 ft** **Total Depth: 27.35 ft** **Initial Depth to Water: 4.07 ft**	**Pump Type: Proactive Alexis Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.35 ft** **Estimated Total Volume Pumped: 11700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/20/2025 2:17 PM	00:00	5.98 pH	21.25 °C	169.12 µS/cm	0.08 mg/L	0.69 NTU	-60.6 mV	4.30 ft	0.08 PSU	260.00 ml/min
3/20/2025 2:22 PM	05:00	5.90 pH	20.91 °C	160.89 µS/cm	0.05 mg/L	1.72 NTU	-56.8 mV	4.31 ft	0.08 PSU	260.00 ml/min
3/20/2025 2:27 PM	10:00	5.85 pH	20.88 °C	155.83 µS/cm	0.04 mg/L	0.70 NTU	-54.7 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:32 PM	15:00	5.76 pH	20.76 °C	150.75 µS/cm	0.03 mg/L	0.63 NTU	-74.4 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:37 PM	20:00	5.74 pH	20.77 °C	149.37 µS/cm	0.03 mg/L	0.99 NTU	-72.8 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:42 PM	25:00	5.71 pH	20.75 °C	147.55 µS/cm	0.02 mg/L	0.68 NTU	-73.2 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:47 PM	30:00	5.63 pH	20.56 °C	145.40 µS/cm	0.02 mg/L	0.29 NTU	-61.9 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:52 PM	35:00	5.64 pH	20.32 °C	148.21 µS/cm	0.02 mg/L	0.18 NTU	-64.7 mV	4.31 ft	0.07 PSU	260.00 ml/min
3/20/2025 2:57 PM	40:00	5.63 pH	20.26 °C	145.96 µS/cm	0.02 mg/L	0.28 NTU	-64.1 mV	4.32 ft	0.07 PSU	260.00 ml/min
3/20/2025 3:02 PM	45:00	5.60 pH	20.23 °C	146.64 µS/cm	0.01 mg/L	0.16 NTU	-62.1 mV	4.32 ft	0.07 PSU	260.00 ml/min

Samples

Sample ID:	Description:
MCM-02	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/20/2025 4:22:01 PM
Project: March 2025 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.39 ft** **Total Depth: 28.39 ft** **Initial Depth to Water: 8.77 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.39 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/20/2025 4:22 PM	00:00	5.63 pH	20.68 °C	126.71 µS/cm	0.15 mg/L	0.28 NTU	-13.6 mV	8.86 ft	0.06 PSU	220.00 ml/min
3/20/2025 4:27 PM	05:00	5.60 pH	20.45 °C	124.72 µS/cm	0.11 mg/L	0.48 NTU	-23.1 mV	8.87 ft	0.06 PSU	220.00 ml/min
3/20/2025 4:32 PM	10:00	5.57 pH	20.57 °C	122.76 µS/cm	0.10 mg/L	0.36 NTU	-23.2 mV	8.87 ft	0.06 PSU	220.00 ml/min
3/20/2025 4:37 PM	15:00	5.54 pH	20.51 °C	120.79 µS/cm	0.09 mg/L	0.21 NTU	-22.6 mV	8.88 ft	0.06 PSU	220.00 ml/min
3/20/2025 4:42 PM	20:00	5.52 pH	20.59 °C	119.41 µS/cm	0.10 mg/L	0.19 NTU	-22.5 mV	8.88 ft	0.06 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-16	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/20/2025 4:23:59 PM
Project: March 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 26.6 ft** **Initial Depth to Water: 8.35 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 21.6 ft** **Estimated Total Volume Pumped: 8275 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 155 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Prepurged 7 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
3/20/2025 4:23 PM	00:00	5.39 pH	21.92 °C	80.62 µS/cm	1.92 mg/L	5.32 NTU	91.9 mV	8.47 ft	0.04 PSU	190.00 ml/min
3/20/2025 4:28 PM	05:00	5.30 pH	20.94 °C	88.01 µS/cm	0.26 mg/L	5.28 NTU	75.2 mV	8.48 ft	0.04 PSU	190.00 ml/min
3/20/2025 4:33 PM	10:00	5.30 pH	21.02 °C	92.13 µS/cm	0.22 mg/L	5.47 NTU	104.7 mV	8.46 ft	0.04 PSU	190.00 ml/min
3/20/2025 4:38 PM	15:00	5.30 pH	20.94 °C	94.30 µS/cm	0.20 mg/L	5.12 NTU	101.1 mV	8.46 ft	0.04 PSU	155.00 ml/min
3/20/2025 4:43 PM	20:00	5.31 pH	21.20 °C	96.41 µS/cm	0.19 mg/L	4.68 NTU	100.8 mV	8.48 ft	0.05 PSU	155.00 ml/min
3/20/2025 4:48 PM	25:00	5.32 pH	21.11 °C	101.37 µS/cm	0.17 mg/L	4.50 NTU	95.2 mV	8.47 ft	0.05 PSU	155.00 ml/min
3/20/2025 4:53 PM	30:00	5.34 pH	21.11 °C	107.25 µS/cm	0.15 mg/L	3.85 NTU	88.6 mV	8.47 ft	0.05 PSU	155.00 ml/min
3/20/2025 4:58 PM	35:00	5.34 pH	21.25 °C	108.29 µS/cm	0.15 mg/L	3.91 NTU	86.0 mV	8.49 ft	0.05 PSU	155.00 ml/min
3/20/2025 5:03 PM	40:00	5.34 pH	21.29 °C	110.07 µS/cm	0.15 mg/L	3.79 NTU	83.8 mV	8.50 ft	0.05 PSU	155.00 ml/min
3/20/2025 5:08 PM	45:00	5.34 pH	21.29 °C	109.46 µS/cm	0.16 mg/L	3.71 NTU	80.5 mV	8.50 ft	0.05 PSU	155.00 ml/min
3/20/2025 5:13 PM	50:00	5.34 pH	21.29 °C	110.79 µS/cm	0.14 mg/L	3.65 NTU	79.0 mV	8.51 ft	0.05 PSU	155.00 ml/min

Samples

Sample ID:	Description:
MCM-15	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 08, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 34-Week Sampling April 2025 Plant McManus 34-Week Sampling April 2025
Work Order: 720062

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 17, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 720062 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
720062001	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062002	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062003	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062004	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15
720062005	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15
720062006	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062007	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062008	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062009	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15
720062010	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 09:15
720062011	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 09:15
720062012	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062013	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062014	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062015	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15

720062016	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15
720062017	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062018	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062019	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062020	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

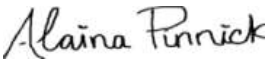
Method	Run Date ID
SW846 3005A	26-APR-2025
SW846 7470A Prep	28-APR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	21-APR-2025
EPA 300.0	22-APR-2025
EPA 300.0	23-APR-2025
SM 2320B	29-APR-2025
SM 2320B	30-APR-2025
SM 2540C	22-APR-2025
SW846 3005A/6020B	29-APR-2025
SW846 7470A	29-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 720062 GEL Work Order: 720062

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-INW-01
Sample ID: 720062001
Matrix: WG
Collect Date: 15-APR-25 14:07
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/21/25	2115	2784798	1
Chloride		6160	67.0	200	mg/L		1000	CWW	04/21/25	2147	2784798	2
Sulfate		747	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	0953	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1857	2786042	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.581	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.844	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		207	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Iron		4.17	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0484	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		113	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3440	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1510	2786042	5
Magnesium		433	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1704	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		11100	23.8	100	mg/L			SC1	04/22/25	1404	2784983	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		194	0.725	2.00	mg/L			BR2	04/29/25	1235	2789240	8
Bicarbonate alkalinity (CaCO3)		194	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 11:41		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.349	0.165	0.500	mg/L		5	CWW	04/21/25	2219	2784798	1
Sulfate		661	66.5	200	mg/L		500	CWW	04/21/25	2250	2784798	2
Chloride		4870	67.0	200	mg/L		1000	CWW	04/23/25	0151	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1004	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.224	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2133	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0426	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0545	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.287	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1916	2786042	6
Arsenic		0.0641	0.0100	0.0250	mg/L	1.00	5					
Boron		0.708	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		95.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2770	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1529	2786042	7
Magnesium		374	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1723	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9150	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1026	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-PT-01
Sample ID: 720062003
Matrix: WG
Collect Date: 15-APR-25 10:39
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.494	0.330	1.00	mg/L		10	CWW	04/21/25	2322	2784798	1
Chloride		4610	33.5	100	mg/L		500	CWW	04/21/25	2354	2784798	2
Sulfate		473	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1006	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.482	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2137	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0482	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0332	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.251	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1920	2786042	5
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		86.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2470	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1540	2786042	6
Magnesium		311	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1726	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8390	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		304	0.725	2.00	mg/L			BR2	04/29/25	1238	2789240	9
Bicarbonate alkalinity (CaCO3)		304	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0026	2784798	1
Sulfate		590	66.5	200	mg/L		500	CWW	04/22/25	0058	2784798	2
Chloride		4950	67.0	200	mg/L		1000	CWW	04/23/25	0223	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1008	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.581	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2140	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.80	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0231	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.221	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1924	2786042	6
Arsenic	J	0.0146	0.0100	0.0250	mg/L	1.00	5					
Boron		0.693	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		196	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		92.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2750	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1544	2786042	7
Magnesium		361	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1730	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9180	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1029	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:16		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.506	0.330	1.00	mg/L		10	CWW	04/22/25	0130	2784798	1
Chloride		4570	33.5	100	mg/L		500	CWW	04/22/25	0201	2784798	2
Sulfate		498	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1009	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.275	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2144	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0561	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0398	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1928	2786042	5
Arsenic		0.0450	0.0100	0.0250	mg/L	1.00	5					
Boron		0.775	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		93.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2400	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1548	2786042	6
Magnesium		338	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1734	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8130	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		233	0.725	2.00	mg/L			HH2	04/30/25	1031	2789857	9
Bicarbonate alkalinity (CaCO3)		233	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-01
Sample ID: 720062006
Matrix: WG
Collect Date: 15-APR-25 13:55
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.533	0.330	1.00	mg/L		10	CWW	04/22/25	0337	2784798	1
Chloride		4210	33.5	100	mg/L		500	CWW	04/22/25	0409	2784798	2
Sulfate		496	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1011	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.307	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2148	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0394	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.165	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1931	2786042	5
Arsenic		0.0360	0.0100	0.0250	mg/L	1.00	5					
Boron		0.815	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		152	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		86.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2280	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1552	2786042	6
Magnesium		292	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1738	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7470	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		278	0.725	2.00	mg/L			BR2	04/29/25	1242	2789240	9
Bicarbonate alkalinity (CaCO3)		278	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-02
Sample ID: 720062007
Matrix: WG
Collect Date: 16-APR-25 10:25
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.657	0.330	1.00	mg/L		10	CWW	04/22/25	0441	2784798	1
Chloride		3560	33.5	100	mg/L		500	CWW	04/22/25	0512	2784798	2
Sulfate		360	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1012	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2152	2786042	4
Barium		0.0807	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.495	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0483	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000880	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.104	0.0100	0.0250	mg/L	1.00	5	RM4	04/29/25	1943	2786042	5
Boron		0.804	0.0260	0.0750	mg/L	1.00	5					
Calcium		145	0.400	1.00	mg/L	1.00	5					
Potassium		76.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2010	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1555	2786042	6
Magnesium		261	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1749	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6310	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		337	0.725	2.00	mg/L			HH2	04/30/25	1033	2789857	9
Bicarbonate alkalinity (CaCO3)		337	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-03
Sample ID: 720062008
Matrix: WG
Collect Date: 15-APR-25 11:08
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.805	0.330	1.00	mg/L		10	CWW	04/22/25	0544	2784798	1
Chloride		2450	33.5	100	mg/L		500	CWW	04/22/25	0616	2784798	2
Sulfate		259	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1014	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2051	2786042	4
Arsenic		0.00523	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0383	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		11.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0436	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.117	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000348	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.955	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	1947	2786042	5
Calcium		96.1	0.400	1.00	mg/L	1.00	5					
Magnesium		157	0.0500	0.150	mg/L	1.00	5					
Potassium		59.2	0.400	1.50	mg/L	1.00	5					
Sodium		1480	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1559	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4780	23.8	100	mg/L			SC1	04/22/25	1020	2784985	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		269	0.725	2.00	mg/L			BR2	04/29/25	1249	2789240	8
Bicarbonate alkalinity (CaCO3)		269	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-FD-01
Sample ID: 720062009
Matrix: WG
Collect Date: 16-APR-25 12:00
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0648	2784798	1
Sulfate		571	66.5	200	mg/L		500	CWW	04/22/25	0720	2784798	2
Chloride		4790	67.0	200	mg/L		1000	CWW	04/23/25	0255	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1016	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.582	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2156	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		4.01	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1950	2786042	6
Arsenic	J	0.0150	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		203	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		94.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2810	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1603	2786042	7
Magnesium		367	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1757	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9580	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1035	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-FB-01
Sample ID: 720062010
Matrix: WQ
Collect Date: 15-APR-25 15:47
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0752	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1020	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	1502	2786042	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1253	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00625
Sample ID:	720062010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-EB-01
Sample ID: 720062011
Matrix: WQ
Collect Date: 15-APR-25 15:57
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0824	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1022	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	1506	2786042	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1255	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-EB-01 Project: GPCC00625
Sample ID: 720062011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 14:07		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1024	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	RM4	04/29/25	2159	2786042	2
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.26	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00476	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0437	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2002	2786042	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.576	0.00335	0.0200	mg/L	1.00	5					
Boron		0.820	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		199	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		110	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3360	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1614	2786042	4
Magnesium		421	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1808	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 11:41		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1025	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.230	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2211	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0360	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0566	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.292	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2006	2786042	3
Arsenic		0.0684	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		97.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2830	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1626	2786042	4
Magnesium		386	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1812	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 10:39		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1027	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.505	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2215	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0403	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0348	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.262	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2009	2786042	3
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		173	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2630	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1629	2786042	4
Magnesium		323	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1816	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1028	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.646	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2218	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		4.02	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2013	2786042	3
Arsenic	J	0.0153	0.0100	0.0250	mg/L	1.00	5					
Boron		0.735	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		204	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		95.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2880	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1633	2786042	4
Magnesium		373	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1819	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:16		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1030	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.275	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2222	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0450	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0383	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.111	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2017	2786042	3
Arsenic		0.0510	0.0100	0.0250	mg/L	1.00	5					
Boron		0.773	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		170	0.400	1.00	mg/L	1.00	5					
Molybdenum	J	0.00113	0.00100	0.00500	mg/L	1.00	5					
Potassium		93.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2420	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1637	2786042	4
Magnesium		334	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1823	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 13:55		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1032	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.315	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2226	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0407	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.169	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2028	2786042	3
Arsenic		0.0425	0.0100	0.0250	mg/L	1.00	5					
Boron		0.802	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		157	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2380	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1641	2786042	4
Magnesium		301	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1835	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 10:25		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1033	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.0854	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2230	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0724	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0502	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.128	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2032	2786042	3
Arsenic		0.120	0.0100	0.0250	mg/L	1.00	5					
Boron		0.832	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		149	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		78.5	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2070	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1645	2786042	4
Magnesium		265	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1838	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	15-APR-25 11:08		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1035	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2055	2786042	2
Arsenic	J	0.00453	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0364	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		7.94	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0408	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.110	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000270	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.925	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	2036	2786042	3
Calcium		93.4	0.400	1.00	mg/L	1.00	5					
Magnesium		154	0.0500	0.150	mg/L	1.00	5					
Potassium		58.1	0.400	1.50	mg/L	1.00	5					
Sodium		1460	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1648	2786042	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:00		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1040	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.604	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2234	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0230	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.216	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2040	2786042	3
Arsenic	J	0.0148	0.0100	0.0250	mg/L	1.00	5					
Boron		0.711	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		195	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		90.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2780	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1652	2786042	4
Magnesium		356	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1846	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: May 8, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2784798												
QC1206077525 720146001 DUP												
Chloride		3.05		3.04	mg/L	0.522			(0%-20%)	CWW	04/23/25	12:19
Fluoride		0.276		0.280	mg/L	1.37	^		(+/-0.100)			
Sulfate		2.07		2.07	mg/L	0.125			(0%-20%)			
QC1206077522 LCS												
Chloride	5.00			4.68	mg/L			93.5	(90%-110%)		04/21/25	15:25
Fluoride	2.50			2.33	mg/L			93.1	(90%-110%)			
Sulfate	10.0			9.53	mg/L			95.3	(90%-110%)			
QC1206077521 MB												
Chloride			U	ND	mg/L						04/21/25	14:53
Fluoride			U	ND	mg/L							
Sulfate			U	ND	mg/L							
QC1206077526 720146001 PS												
Chloride	5.00	3.05		7.67	mg/L			92.3	(90%-110%)		04/23/25	12:51
Fluoride	2.50	0.276		2.63	mg/L			94.1	(90%-110%)			
Sulfate	10.0	2.07		11.6	mg/L			94.8	(90%-110%)			

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
QC1206080511 LCS										
Antimony	0.0500			0.0470	mg/L		94	(80%-120%)	RM4	04/29/25 14:58
Arsenic	0.0500			0.0486	mg/L		97.1	(80%-120%)		
Barium	0.0500			0.0483	mg/L		96.6	(80%-120%)		
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)		
Boron	0.100			0.0989	mg/L		98.9	(80%-120%)		
Cadmium	0.0500			0.0488	mg/L		97.6	(80%-120%)		
Calcium	2.00			1.96	mg/L		97.8	(80%-120%)		
Chromium	0.0500			0.0483	mg/L		96.7	(80%-120%)		
Cobalt	0.0500			0.0473	mg/L		94.6	(80%-120%)		
Iron	2.00			1.88	mg/L		93.9	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Lithium	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0471	mg/L		94.3	(80%-120%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Molybdenum	0.0500			0.0489	mg/L		97.7	(80%-120%)	RM4	04/29/25 14:58
Potassium	2.00			1.96	mg/L		98	(80%-120%)		
Selenium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Sodium	2.00			2.01	mg/L		101	(80%-120%)		
Thallium	0.0500			0.0475	mg/L		94.9	(80%-120%)		
QC1206080510 MB										
Antimony			U	ND	mg/L					04/29/25 14:55
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Iron			U	ND	mg/L				RM4	04/29/25 14:55
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1206080512 720062001 MS										
Antimony	0.0500	U	ND	0.0454	mg/L		90.1	(75%-125%)		04/29/25 19:01
Arsenic	0.0500	U	ND	0.0554	mg/L		99.3	(75%-125%)		
Barium	0.0500		0.581	0.612	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0473	mg/L		94.6	(75%-125%)		

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Boron	0.100		0.844		0.904	mg/L		N/A	(75%-125%)	RM4	04/29/25 19:01
Cadmium	0.0500	U	ND		0.0432	mg/L		86.4	(75%-125%)		
Calcium	2.00		207		199	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0476	mg/L		92.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0442	mg/L		88.2	(75%-125%)		
Iron	2.00		4.17		5.76	mg/L		79.7	(75%-125%)		
Lead	0.0500	U	ND		0.0427	mg/L		85.3	(75%-125%)		
Lithium	0.0500	U	ND		0.0535	mg/L		96.8	(75%-125%)		
Magnesium	2.00		433		429	mg/L		N/A	(75%-125%)		04/29/25 17:07
Manganese	0.0500		0.0484		0.0911	mg/L		85.5	(75%-125%)		04/29/25 19:01
Molybdenum	0.0500	U	ND		0.0537	mg/L		106	(75%-125%)		
Potassium	2.00		113		112	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0427	mg/L		80.2	(75%-125%)		
Sodium	2.00		3440		3350	mg/L		N/A	(75%-125%)		04/29/25 15:14

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2786042												
Thallium	0.0500	U	ND		0.0433	mg/L		86.5	(75%-125%)	RM4	04/29/25	19:01
QC1206080513 720062001 MSD												
Antimony	0.0500	U	ND		0.0465	mg/L	2.25	92.1	(0%-20%)		04/29/25	19:05
Arsenic	0.0500	U	ND		0.0555	mg/L	0.0811	99.4	(0%-20%)			
Barium	0.0500		0.581		0.628	mg/L	2.67	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0465	mg/L	1.75	92.9	(0%-20%)			
Boron	0.100		0.844		0.917	mg/L	1.46	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0433	mg/L	0.266	86.6	(0%-20%)			
Calcium	2.00		207		204	mg/L	2.4	N/A	(0%-20%)			
Chromium	0.0500	U	ND		0.0481	mg/L	1.08	93.1	(0%-20%)			
Cobalt	0.0500	U	ND		0.0440	mg/L	0.295	87.9	(0%-20%)			
Iron	2.00		4.17		5.93	mg/L	2.8	87.8	(0%-20%)			
Lead	0.0500	U	ND		0.0424	mg/L	0.705	84.7	(0%-20%)			
Lithium	0.0500	U	ND		0.0532	mg/L	0.703	96	(0%-20%)			
Magnesium	2.00		433		439	mg/L	2.09	N/A	(0%-20%)		04/29/25	17:11

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Manganese	0.0500		0.0484		0.0920	mg/L	0.994	87.4	(0%-20%)	RM4	04/29/25 19:05
Molybdenum	0.0500	U	ND		0.0551	mg/L	2.44	109	(0%-20%)		
Potassium	2.00		113		114	mg/L	1.44	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0407	mg/L	4.93	76	(0%-20%)		
Sodium	2.00		3440		3390	mg/L	1.22	N/A	(0%-20%)		04/29/25 15:17
Thallium	0.0500	U	ND		0.0432	mg/L	0.15	86.4	(0%-20%)		04/29/25 19:05
QC1206080515 720062001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			116		24.2	ug/L	3.93		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			169		41.8	ug/L	23.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			41500		8340	ug/L	.446		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	RM4	04/29/25 19:12
Iron		834		179	ug/L	7.21		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		43300		9000	ug/L	3.92		(0%-20%)		04/29/25 17:19
Manganese		9.67	J	2.12	ug/L	9.36		(0%-20%)		04/29/25 19:12
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		22600		4480	ug/L	1.03		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		34400		6940	ug/L	.892		(0%-20%)		04/29/25 15:25
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Metals Analysis-Mercury										
Batch 2788234										
QC1206085328 720062001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	04/29/25 09:54
QC1206085327 LCS										
Mercury	0.00200			0.00208	mg/L		104	(80%-120%)		04/29/25 09:51

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2788234										
QC1206085326 MB										
Mercury			U	ND	mg/L				JP2	04/29/25 09:50
QC1206085329 720062001 MS										
Mercury	0.00200	U ND		0.00188	mg/L		94.1	(75%-125%)		04/29/25 09:56
QC1206085331 720062001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		04/29/25 10:03
Solids Analysis										
Batch 2784983										
QC1206077927 719622001 DUP										
Total Dissolved Solids		1200		1220	mg/L	1.65		(0%-5%)	SC1	04/22/25 14:04
QC1206077926 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		04/22/25 14:04
QC1206077925 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 14:04
Batch 2784985										
QC1206077944 719921004 DUP										
Total Dissolved Solids		231		229	mg/L	0.87		(0%-5%)	SC1	04/22/25 10:20
QC1206077943 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		04/22/25 10:20
QC1206077942 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 10:20

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2789240										
QC1206087793 LCS										
Alkalinity, Total as CaCO3	50.0			53.6	mg/L		107	(90%-110%)	BR2	04/29/25 12:27
QC1206087794 LCS										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L		103	(90%-110%)		04/29/25 12:31
QC1206087795 LCSD										
Alkalinity, Total as CaCO3	50.0			53.8	mg/L	0.372	108	(0%-20%)		04/29/25 12:35
QC1206087796 LCSD										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L	0	103	(0%-20%)		04/29/25 12:35
Batch 2789857										
QC1206089128 719818004 DUP										
Alkalinity, Total as CaCO3		154		154	mg/L	0.0651		(0%-20%)	HH2	04/30/25 10:23
Bicarbonate alkalinity (CaCO3)		154		154	mg/L	0.0651		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1206089132 LCS										
Alkalinity, Total as CaCO3	50.0			52.7	mg/L		105	(90%-110%)		04/30/25 10:20
QC1206089129 719818004 MS										
Alkalinity, Total as CaCO3	50.0	154		198	mg/L		89	(80%-120%)		04/30/25 10:25

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 720062

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2786042

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2786041

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206080510	Method Blank (MB)**ICP-MS**
1206080511	Laboratory Control Sample (LCS)
1206080515	720062001(MCM-INW-01L) Serial Dilution (SD)
1206080512	720062001(MCM-INW-01S) Matrix Spike (MS)
1206080513	720062001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02), 720062019 (MCM-DR-03) and 720062020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02) and 720062020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	720062									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	10X	10X	10X	10X	10X	10X	10X	5X	10X	10X
Manganese	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X

Analyte	720062							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	5X	5X	5X	1X	5X
Arsenic	5X	5X	5X	5X	5X	5X	1X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	5X

Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	10X	10X	10X	10X	10X	10X	5X	10X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	1X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2788234

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2788233

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206085326	Method Blank (MB)**CVAA**
1206085327	Laboratory Control Sample (LCS)
1206085331	720062001(MCM-INW-01L) Serial Dilution (SD)
1206085328	720062001(MCM-INW-01D) Sample Duplicate (DUP)
1206085329	720062001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2784798

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077521	Method Blank (MB)
1206077522	Laboratory Control Sample (LCS)
1206077525	720146001(NonSDG) Sample Duplicate (DUP)
1206077526	720146001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	720062								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	1000X	500X	1000X	500X	500X	500X	500X	1000X
Fluoride	10X	5X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Samples and the associated QC were initially analyzed at a dilution based on historical data. Upon review of the data, they were re-analyzed undiluted. 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS).

Miscellaneous Information

Manual Integrations
Samples 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784983

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
1206077925	Method Blank (MB)
1206077926	Laboratory Control Sample (LCS)
1206077927	719622001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 1206077927 (Non SDG 719622001DUP) and 720062001 (MCM-INW-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784985

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01

720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077942	Method Blank (MB)
1206077943	Laboratory Control Sample (LCS)
1206077944	719921004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Consecutive Weight Checks
In order to meet consecutive weight check criteria, weight events must be within 0.0005g of each other. After initial weight checks failed this criteria, the analyst performed two additional weight events. After four weight events, the analyst was unable to get the samples to conform to the criteria. The failure to meet weigh back criteria is attributed to the matrix of the samples. 720062009 (MCM-AP1-FD-01).

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789240

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062003	MCM-PT-01
720062006	MCM-DR-01
720062008	MCM-DR-03
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206087793	Laboratory Control Sample (LCS)
1206087794	Laboratory Control Sample (LCS)
1206087795	Laboratory Control Sample Duplicate (LCSD)
1206087796	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789857

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062004	MCM-PT-02
720062005	MCM-PT-03
720062007	MCM-DR-02
720062009	MCM-AP1-FD-01
1206089128	719818004(NonSDG) Sample Duplicate (DUP)
1206089129	719818004(NonSDG) Matrix Spike (MS)
1206089132	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

720062

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 34-Week Sampling April 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list (NI)	Dissolved Metals* (6020B) - see list (NI)	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	04/15/25	1407	G	Y*	WG			5	X	X	X	X	X	Comments Note: extra sample is required for sample specific QC
MCM-MCM-06	04/16/25	1141	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	04/15/25	1039	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	04/16/25	0943	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	04/16/25	1216	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	04/15/25	1355	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	04/16/25	1025	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	04/15/25	1104	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	04/16/25	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	04/15/25	1547	FB	N	WQ			4	X		X	X	X	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	4/16/25	1645	1 Fed Ex		
2				2 Cmcmahon	4/17/25	0915
3				3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ○ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus 34-Week Sampling April 2025 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) — Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	04/15/25	1557	EB	N	WQ			4	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 4/16/25	1445	1 FedEx		
2			2 Cmcmahon	APR 17 2025	0915
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
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Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 34							
Task Code: MCM-CCR-CA-20250414							
Location Code/Label	Sample Code	Matrix Code	Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 720062 | GEL PM: AAP

Received By: CLM | Date Received at GEL: 4/7/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
287648285286	0°				
287648221469	0°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 4/10/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 08 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/22/2025 12:18:49 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 34 Week Apr

JOB NUMBER

680-263582-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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



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

Definitions/Glossary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week Apr

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-263582-1	MCM-INW-01	Water	04/15/25 14:07	04/17/25 10:25
680-263582-2	MCM-MCM-06	Water	04/16/25 11:41	04/17/25 10:25
680-263582-3	MCM-PT-01	Water	04/15/25 10:39	04/17/25 10:25
680-263582-4	MCM-PT-02	Water	04/16/25 09:43	04/17/25 10:25
680-263582-5	MCM-PT-03	Water	04/16/25 12:16	04/17/25 10:25
680-263582-6	MCM-DR-01	Water	04/15/25 13:55	04/17/25 10:25
680-263582-7	MCM-DR-02	Water	04/16/25 10:25	04/17/25 10:25
680-263582-8	MCM-DR-03	Water	04/15/25 11:08	04/17/25 10:25
680-263582-9	MCM-AP1-FD-01	Water	04/16/25 00:00	04/17/25 10:25
680-263582-10	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 10:25
680-263582-11	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 10:25

Job ID: 680-263582-1 Eurofins Savannah

Job Narrative
680-263582-1

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 4/17/2025 10:25 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 4.2°C.

General Chemistry
Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-881151 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.

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	1.5		0.83	0.83	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	5.4		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21	F1	0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	37		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample Results

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-881047/1
Matrix: Water
Analysis Batch: 881047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:32	1

Lab Sample ID: LCS 680-881047/2
Matrix: Water
Analysis Batch: 881047

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881047/3
Matrix: Water
Analysis Batch: 881047

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
Sulfide			10.0	9.55		mg/L		96	75 - 125	1	30

Lab Sample ID: 680-263582-2 MS
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	23		6.50	30.8		mg/L		118	75 - 125		

Lab Sample ID: 680-263582-2 MSD
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	23		6.50	30.8		mg/L		118	75 - 125	0	30

Lab Sample ID: 680-263582-1 DU
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.5			1.60		mg/L				6	30

Lab Sample ID: MB 680-881049/1
Matrix: Water
Analysis Batch: 881049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-881049/2
Matrix: Water
Analysis Batch: 881049

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881049/3
Matrix: Water
Analysis Batch: 881049

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
Sulfide			10.0	9.35		mg/L		94	75 - 125	3	30

Lab Sample ID: 680-263562-D-2 MS
Matrix: Water
Analysis Batch: 881049

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		
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125		

Lab Sample ID: 680-263562-D-2 MSD
Matrix: Water
Analysis Batch: 881049

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
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125	0	30

Lab Sample ID: 680-263562-D-1 DU
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<1.0		<0.96		mg/L		NC	30

Lab Sample ID: MB 680-881151/1
Matrix: Water
Analysis Batch: 881151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/21/25 10:55	1

Lab Sample ID: LCS 680-881151/2
Matrix: Water
Analysis Batch: 881151

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	10.4		mg/L		104	75 - 125		

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 680-881151/3
Matrix: Water
Analysis Batch: 881151

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
Sulfide			10.0	10.4		mg/L		104	75 - 125	0	30

Lab Sample ID: 680-263582-5 MS
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125		

Lab Sample ID: 680-263582-5 MSD
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125	0	30

Lab Sample ID: 680-263582-4 DU
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	5.4		5.33		mg/L				1	30

QC Association Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

General Chemistry

Analysis Batch: 881047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-263582-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881047/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881047/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881047/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-263582-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-263582-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-263582-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881049/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881049/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881049/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-263562-D-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-263582-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-263582-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881151/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881151/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881151/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MS	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MSD	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-4 DU	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	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
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

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

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 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Natalie Piparo, Jay Siewert (EnSafe)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 34-Week Sampling April 2025	Project #:			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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:

Task_Code: MCM-CCR-CA-20250414
Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	04/15/25	1407	G	WG	N		X	2
MCM-MCM-06	04/16/25	1141	G	WG	N		X	2
MCM-PT-01	04/15/25	1039	G	WG	N		X	2
MCM-PT-02	04/16/25	0943	G	WG	N		X	2
MCM-PT-03	04/16/25	1216	G	WG	N		X	2
MCM-DR-01	04/15/25	1355	G	WG	N		X	2
MCM-DR-02	04/16/25	1025	G	WG	N		X	2
MCM-DR-03	04/15/25	1104	G	WG	N		X	2
MCM-AP1-FD-01	04/16/25	—	G	WG	N		X	2
MCM-AP1-FB-01	04/15/25	1547	G	WQ	N		X	2
MCM-AP1-EB-01	04/15/25	1557	G	WQ	N		X	2

680-263582 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained lon
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ ...s

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/16/25 1645	Ensafe	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4-17-25 1025	
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: 4.2/4.2

Plant McManus Performance Monitoring Sampling Week 34				
Task Code: MCM-CCR-CA-20250414				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-263582-1

Login Number: 263582

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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	

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Jay Siewert

Field Conditions: 85°/64°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:32	**Time Finish**	09:59		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	89.58	19.05	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,818.40	19.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.27	20.07	± 0.1	GWMP
pH (SU)	7.00	7.13	19.81	± 0.1	GWMP
pH (SU)	10.00	10.03	19.85	± 0.1	GWMP
ORP (mV)	228.0	223.20	20.00	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.68		

Calibration Check					
Time Start	15:23	**Time Finish**	15:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,256.20	29.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	29.14	± 0.1	GWMP
pH (SU)	7.00	7.15	29.15	± 0.1	GWMP
pH (SU)	10.00	10.19	30.06	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	10.63		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Jay Siewert

Field Conditions: 76°/45°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:57	**Time Finish**	08:13		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.68	13.52	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,248.90	14.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.75	± 0.1	GWMP
pH (SU)	7.00	7.08	15.21	± 0.1	GWMP
pH (SU)	10.00	10.20	15.36	± 0.1	GWMP
ORP (mV)	228.0	232.20	15.52	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.91		

Calibration Check					
Time Start	13:20	**Time Finish**	13:32		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,299.10	25.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.50	± 0.1	GWMP
pH (SU)	7.00	7.12	27.72	± 0.1	GWMP
pH (SU)	10.00	10.09	26.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.53		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Natalie Piparo

Field Conditions: H 84, L 59

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:29		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.60	16.65	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,652.10	17.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	17.77	± 0.1	GWMP
pH (SU)	7.00	7.03	18.14	± 0.1	GWMP
pH (SU)	10.00	9.98	18.31	± 0.1	GWMP
ORP (mV)	228.0	231.90	18.21	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.23		
	10.00	10.42		

Calibration Check					
Time Start	15:18	**Time Finish**	15:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,445.50	31.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.16	31.57	± 0.1	GWMP
pH (SU)	7.00	7.20	30.23	± 0.1	GWMP
pH (SU)	10.00	10.12	30.43	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.27		
	10.00	10.14		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Natalie Piparo

Field Conditions: H 75, L 51

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:49	**Time Finish**	08:00		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.30	13.95	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,445.40	14.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.54	± 0.1	GWMP
pH (SU)	7.00	7.03	15.23	± 0.1	GWMP
pH (SU)	10.00	10.00	15.31	± 0.1	GWMP
ORP (mV)	228.0	234.80	15.20	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.92		

Calibration Check					
Time Start	12:19	**Time Finish**	12:28		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,396.70	22.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.21	22.42	± 0.1	GWMP
pH (SU)	7.00	7.25	22.71	± 0.1	GWMP
pH (SU)	10.00	10.19	25.66	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.33		
	10.00	10.06		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 4/15/2025 10:03:48 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.78 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/15/2025 10:03 AM	00:00	6.78 pH	24.65 °C	15,526 µS/cm	0.15 mg/L	0.52 NTU	-150.6 mV	5.80 ft	9.19 PSU	210.00 ml/min
4/15/2025 10:08 AM	05:00	6.82 pH	22.63 °C	15,654 µS/cm	0.09 mg/L	0.49 NTU	-207.7 mV	5.78 ft	9.26 PSU	210.00 ml/min
4/15/2025 10:13 AM	10:00	6.84 pH	22.46 °C	15,532 µS/cm	0.07 mg/L	0.51 NTU	-177.0 mV	5.74 ft	9.18 PSU	210.00 ml/min
4/15/2025 10:18 AM	15:00	6.88 pH	22.52 °C	15,155 µS/cm	0.06 mg/L	0.34 NTU	-180.5 mV	5.71 ft	8.94 PSU	210.00 ml/min
4/15/2025 10:23 AM	20:00	6.90 pH	22.61 °C	14,864 µS/cm	0.05 mg/L	0.35 NTU	-182.0 mV	5.69 ft	8.76 PSU	210.00 ml/min
4/15/2025 10:28 AM	25:00	6.91 pH	22.64 °C	14,787 µS/cm	0.05 mg/L	0.30 NTU	-183.5 mV	5.67 ft	8.71 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/15/2025 10:28:41 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.75 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: -0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/15/2025 10:28 AM	00:00	6.97 pH	22.10 °C	8,866.5 µS/cm	0.03 mg/L	1.18 NTU	-392.3 mV	5.71 ft	5.02 PSU	250.00 ml/min
4/15/2025 10:33 AM	05:00	6.93 pH	22.21 °C	8,777.2 µS/cm	-0.01 mg/L	1.50 NTU	-434.9 mV	5.69 ft	4.96 PSU	250.00 ml/min
4/15/2025 10:38 AM	10:00	6.95 pH	22.35 °C	8,536.9 µS/cm	-0.02 mg/L	1.27 NTU	-459.6 mV	5.66 ft	4.82 PSU	250.00 ml/min
4/15/2025 10:43 AM	15:00	6.94 pH	22.45 °C	8,479.2 µS/cm	-0.03 mg/L	1.24 NTU	-488.6 mV	5.64 ft	4.78 PSU	250.00 ml/min
4/15/2025 10:48 AM	20:00	6.93 pH	22.55 °C	8,494.2 µS/cm	-0.04 mg/L	1.21 NTU	-511.6 mV	5.61 ft	4.79 PSU	250.00 ml/min
4/15/2025 10:53 AM	25:00	6.93 pH	22.66 °C	8,422.8 µS/cm	-0.04 mg/L	1.19 NTU	-528.3 mV	5.58 ft	4.75 PSU	250.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/15/2025 1:20:05 PM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.34 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/15/2025 1:20 PM	00:00	6.99 pH	28.14 °C	13,308 µS/cm	0.59 mg/L	0.25 NTU	-204.9 mV	5.43 ft	7.78 PSU	210.00 ml/min
4/15/2025 1:25 PM	05:00	7.01 pH	24.03 °C	13,919 µS/cm	0.15 mg/L	0.33 NTU	-212.9 mV	5.46 ft	8.16 PSU	210.00 ml/min
4/15/2025 1:30 PM	10:00	7.03 pH	23.48 °C	13,704 µS/cm	0.10 mg/L	0.38 NTU	-187.2 mV	5.47 ft	8.02 PSU	210.00 ml/min
4/15/2025 1:35 PM	15:00	7.03 pH	23.62 °C	13,573 µS/cm	0.07 mg/L	0.37 NTU	-187.1 mV	5.49 ft	7.94 PSU	210.00 ml/min
4/15/2025 1:40 PM	20:00	7.03 pH	23.80 °C	13,536 µS/cm	0.06 mg/L	0.33 NTU	-185.6 mV	5.51 ft	7.92 PSU	210.00 ml/min
4/15/2025 1:45 PM	25:00	7.06 pH	23.91 °C	13,300 µS/cm	0.05 mg/L	0.32 NTU	-185.2 mV	5.55 ft	7.77 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/15/2025 1:25:15 PM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.87 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.2 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.74 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/15/2025 1:25 PM	00:00	6.94 pH	24.59 °C	18,081 µS/cm	0.02 mg/L	0.86 NTU	-246.9 mV	5.71 ft	10.84 PSU	240.00 ml/min
4/15/2025 1:30 PM	05:00	6.76 pH	24.02 °C	18,199 µS/cm	0.02 mg/L	0.89 NTU	-256.8 mV	5.77 ft	10.92 PSU	240.00 ml/min
4/15/2025 1:35 PM	10:00	6.62 pH	24.23 °C	18,238 µS/cm	0.01 mg/L	0.84 NTU	-291.4 mV	5.82 ft	10.94 PSU	240.00 ml/min
4/15/2025 1:40 PM	15:00	6.58 pH	24.68 °C	18,213 µS/cm	0.00 mg/L	0.64 NTU	-302.5 mV	5.86 ft	10.93 PSU	240.00 ml/min
4/15/2025 1:45 PM	20:00	6.57 pH	24.77 °C	18,194 µS/cm	-0.00 mg/L	0.79 NTU	-305.9 mV	5.89 ft	10.92 PSU	240.00 ml/min
4/15/2025 1:50 PM	25:00	6.57 pH	24.70 °C	18,191 µS/cm	-0.01 mg/L	1.03 NTU	-307.4 mV	5.91 ft	10.91 PSU	240.00 ml/min
4/15/2025 1:55 PM	30:00	6.57 pH	25.04 °C	18,159 µS/cm	-0.01 mg/L	0.50 NTU	-309.4 mV	5.94 ft	10.89 PSU	240.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 4/16/2025 9:08:14 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.26 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/16/2025 9:08 AM	00:00	6.53 pH	20.48 °C	17,027 µS/cm	0.37 mg/L	0.63 NTU	-157.0 mV	6.29 ft	10.13 PSU	225.00 ml/min
4/16/2025 9:13 AM	05:00	6.55 pH	20.26 °C	17,165 µS/cm	0.13 mg/L	1.17 NTU	-190.6 mV	6.27 ft	10.22 PSU	225.00 ml/min
4/16/2025 9:18 AM	10:00	6.56 pH	20.44 °C	17,098 µS/cm	0.10 mg/L	1.28 NTU	-168.6 mV	6.23 ft	10.18 PSU	225.00 ml/min
4/16/2025 9:23 AM	15:00	6.57 pH	20.62 °C	16,968 µS/cm	0.08 mg/L	1.01 NTU	-176.9 mV	6.22 ft	10.09 PSU	225.00 ml/min
4/16/2025 9:28 AM	20:00	6.59 pH	20.73 °C	16,862 µS/cm	0.07 mg/L	0.78 NTU	-187.5 mV	6.18 ft	10.03 PSU	225.00 ml/min
4/16/2025 9:33 AM	25:00	6.61 pH	20.89 °C	16,744 µS/cm	0.06 mg/L	0.57 NTU	-201.5 mV	6.15 ft	9.95 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 9:41:37 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.95 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: -0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/16/2025 9:41 AM	00:00	7.64 pH	21.45 °C	12,581 µS/cm	0.03 mg/L	0.89 NTU	-365.4 mV	5.84 ft	7.31 PSU	250.00 ml/min
4/16/2025 9:46 AM	05:00	7.26 pH	21.44 °C	12,474 µS/cm	0.02 mg/L	0.65 NTU	-364.6 mV	5.81 ft	7.24 PSU	250.00 ml/min
4/16/2025 9:51 AM	10:00	7.25 pH	21.48 °C	12,373 µS/cm	0.02 mg/L	0.67 NTU	-365.4 mV	5.79 ft	7.18 PSU	250.00 ml/min
4/16/2025 9:56 AM	15:00	7.27 pH	21.49 °C	12,304 µS/cm	0.01 mg/L	0.64 NTU	-366.3 mV	5.75 ft	7.13 PSU	250.00 ml/min
4/16/2025 10:01 AM	20:00	7.26 pH	21.70 °C	12,277 µS/cm	0.01 mg/L	0.67 NTU	-366.6 mV	5.72 ft	7.12 PSU	250.00 ml/min
4/16/2025 10:06 AM	25:00	7.27 pH	21.81 °C	12,178 µS/cm	0.00 mg/L	0.51 NTU	-367.0 mV	5.69 ft	7.06 PSU	250.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 11:06:09 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.03 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: -0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/16/2025 11:06 AM	00:00	6.75 pH	24.16 °C	16,383 µS/cm	0.58 mg/L	2.13 NTU	-222.4 mV	7.99 ft	9.74 PSU	175.00 ml/min
4/16/2025 11:11 AM	05:00	6.79 pH	21.87 °C	17,156 µS/cm	0.24 mg/L	1.21 NTU	-259.6 mV	7.96 ft	10.23 PSU	175.00 ml/min
4/16/2025 11:16 AM	10:00	6.83 pH	21.77 °C	17,084 µS/cm	0.15 mg/L	1.78 NTU	-223.7 mV	7.92 ft	10.18 PSU	175.00 ml/min
4/16/2025 11:21 AM	15:00	6.85 pH	21.77 °C	16,972 µS/cm	0.10 mg/L	1.06 NTU	-224.9 mV	7.90 ft	10.11 PSU	175.00 ml/min
4/16/2025 11:26 AM	20:00	6.88 pH	21.96 °C	16,804 µS/cm	0.07 mg/L	0.75 NTU	-226.7 mV	7.87 ft	10.00 PSU	175.00 ml/min
4/16/2025 11:31 AM	25:00	6.90 pH	21.90 °C	16,681 µS/cm	0.06 mg/L	0.49 NTU	-227.3 mV	7.83 ft	9.92 PSU	175.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 11:24:48 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.15 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 7350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/16/2025 11:24 AM	00:00	7.01 pH	21.41 °C	16,853 µS/cm	0.09 mg/L	0.25 NTU	-325.9 mV	5.14 ft	10.03 PSU	210.00 ml/min
4/16/2025 11:29 AM	05:00	6.65 pH	21.28 °C	16,492 µS/cm	0.04 mg/L	0.17 NTU	-327.4 mV	5.11 ft	9.79 PSU	210.00 ml/min
4/16/2025 11:34 AM	10:00	6.67 pH	21.36 °C	16,165 µS/cm	0.03 mg/L	0.12 NTU	-328.8 mV	5.09 ft	9.58 PSU	210.00 ml/min
4/16/2025 11:39 AM	15:00	6.71 pH	21.41 °C	15,649 µS/cm	0.02 mg/L	0.09 NTU	-330.3 mV	5.05 ft	9.25 PSU	210.00 ml/min
4/16/2025 11:44 AM	20:00	6.73 pH	21.54 °C	15,387 µS/cm	0.02 mg/L	0.34 NTU	-331.1 mV	5.03 ft	9.09 PSU	210.00 ml/min
4/16/2025 11:49 AM	25:00	6.76 pH	21.54 °C	15,063 µS/cm	0.02 mg/L	0.28 NTU	-332.3 mV	5.00 ft	8.88 PSU	210.00 ml/min
4/16/2025 11:54 AM	30:00	6.76 pH	21.65 °C	14,912 µS/cm	0.01 mg/L	0.15 NTU	-332.7 mV	4.98 ft	8.78 PSU	210.00 ml/min
4/16/2025 11:59 AM	35:00	6.76 pH	21.73 °C	14,915 µS/cm	0.01 mg/L	0.13 NTU	-332.4 mV	4.95 ft	8.78 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

APPENDIX C

SURFACE WATER LABORATORY ANALYTICAL RESULTS AND FIELD SAMPLING REPORTS

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Surface Water Sampling Sept. 2024
Work Order: 686674

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686674001	MCM-T2-1HT	Surface Water	09/18/24 10:02	09/19/24 12:50
686674002	MCM-T2-2HT	Surface Water	09/18/24 10:23	09/19/24 12:50
686674003	MCM-T2-2HTS	Surface Water	09/18/24 10:09	09/19/24 12:50
686674004	MCM-T2-3HT	Surface Water	09/18/24 10:48	09/19/24 12:50
686674005	MCM-T2-3HTS	Surface Water	09/18/24 10:36	09/19/24 12:50
686674006	MCM-T2-4HT	Surface Water	09/18/24 11:16	09/19/24 12:50
686674007	MCM-T2-4HTS	Surface Water	09/18/24 11:02	09/19/24 12:50
686674008	MCM-T2-4LT	Surface Water	09/18/24 16:18	09/19/24 12:50
686674009	MCM-BG-1LT	Surface Water	09/18/24 15:57	09/19/24 12:50
686674010	MCM-BG-2HT	Surface Water	09/18/24 09:37	09/19/24 12:50
686674011	MCM-CSURF-FD-01	Surface Water	09/18/24 12:00	09/19/24 12:50
686674012	MCM-CSURF-FB-01	Water	09/18/24 18:58	09/19/24 12:50
686674013	MCM-CSURF-EB-01	Water	09/18/24 19:00	09/19/24 12:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

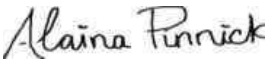
Method	Run Date ID
SW846 3005A	24-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-SEP-2024
EPA 300.0	25-SEP-2024
SM 2320B	23-SEP-2024
SM 2540C	25-SEP-2024
SW846 3005A/6020B	02-OCT-2024
SW846 3005A/6020B	03-OCT-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686674 GEL Work Order: 686674

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	686674001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9010	134	400	mg/L		2000	TXT1	09/24/24	0204	2676438	1
Sulfate		1400	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2139	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00421	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1923	2675189	3
Boron		2.14	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1256	2675189	4
Calcium		216	1.60	4.00	mg/L	1.00	20					
Magnesium		623	0.200	0.600	mg/L	1.00	20					
Potassium		198	1.60	6.00	mg/L	1.00	20					
Sodium		5350	40.0	125	mg/L	1.00	500	PRB	10/03/24	1214	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		94.4	0.725	2.00	mg/L			HH2	09/23/24	1710	2675519	7
Bicarbonate alkalinity (CaCO3)		94.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	686674001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	686674002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:23		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2210	2676438	1
Chloride		8990	134	400	mg/L		2000	TXT1	09/24/24	0235	2676438	2
Sulfate		1430	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1948	2675189	3
Boron		2.20	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1307	2675189	4
Calcium		218	1.60	4.00	mg/L	1.00	20					
Magnesium		635	0.200	0.600	mg/L	1.00	20					
Potassium		199	1.60	6.00	mg/L	1.00	20					
Sodium		5410	40.0	125	mg/L	1.00	500	PRB	10/03/24	1222	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		96.6	0.725	2.00	mg/L			HH2	09/23/24	1713	2675519	7
Bicarbonate alkalinity (CaCO3)		96.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	686674002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	686674003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:09		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8930	134	400	mg/L		2000	TXT1	09/24/24	0307	2676438	1
Sulfate		1390	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2241	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5450	40.0	125	mg/L	1.00	500	PRB	10/03/24	1224	2675189	3
Arsenic	J	0.00416	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1952	2675189	4
Boron		2.21	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1310	2675189	5
Calcium		222	1.60	4.00	mg/L	1.00	20					
Magnesium		642	0.200	0.600	mg/L	1.00	20					
Potassium		203	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.0	0.725	2.00	mg/L			HH2	09/23/24	1716	2675519	7
Bicarbonate alkalinity (CaCO3)		95.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	686674003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	686674004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:48		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9320	134	400	mg/L		2000	TXT1	09/24/24	0338	2676438	1
Sulfate		1450	266	800	mg/L		2000					
Fluoride	J	1.03	0.825	2.50	mg/L		25	TXT1	09/24/24	2313	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5700	40.0	125	mg/L	1.00	500	PRB	10/03/24	1226	2675189	3
Boron		2.37	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1312	2675189	4
Calcium		228	1.60	4.00	mg/L	1.00	20					
Magnesium		668	0.200	0.600	mg/L	1.00	20					
Potassium		211	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00442	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1956	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18800	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		97.3	0.725	2.00	mg/L			HH2	09/23/24	1719	2675519	7
Bicarbonate alkalinity (CaCO3)		97.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	686674004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00724
Sample ID:	686674005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:36		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8760	134	400	mg/L		2000	TXT1	09/24/24	0409	2676438	1
Sulfate		1410	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2344	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1959	2675189	3
Boron		2.18	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1318	2675189	4
Calcium		215	1.60	4.00	mg/L	1.00	20					
Magnesium		626	0.200	0.600	mg/L	1.00	20					
Potassium		198	1.60	6.00	mg/L	1.00	20					
Sodium		5380	40.0	125	mg/L	1.00	500	PRB	10/03/24	1233	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		94.3	0.725	2.00	mg/L			HH2	09/23/24	1721	2675519	7
Bicarbonate alkalinity (CaCO3)		94.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00724
Sample ID:	686674005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	686674006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:16		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9310	134	400	mg/L		2000	TXT1	09/24/24	0543	2676438	1
Sulfate		1520	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0015	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5510	40.0	125	mg/L	1.00	500	PRB	10/03/24	1235	2675189	3
Arsenic	J	0.00429	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2003	2675189	4
Boron		2.29	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1320	2675189	5
Calcium		222	1.60	4.00	mg/L	1.00	20					
Magnesium		647	0.200	0.600	mg/L	1.00	20					
Potassium		206	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		19100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.4	0.725	2.00	mg/L			HH2	09/23/24	1724	2675519	7
Bicarbonate alkalinity (CaCO3)		95.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	686674006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	686674007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0221	2676438	1
Chloride		9010	134	400	mg/L		2000	TXT1	09/24/24	0615	2676438	2
Sulfate		1460	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5340	40.0	125	mg/L	1.00	500	PRB	10/03/24	1237	2675189	3
Arsenic	J	0.00434	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2006	2675189	4
Boron		2.22	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1322	2675189	5
Calcium		212	1.60	4.00	mg/L	1.00	20					
Magnesium		627	0.200	0.600	mg/L	1.00	20					
Potassium		196	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		93.9	0.725	2.00	mg/L			HH2	09/23/24	1727	2675519	7
Bicarbonate alkalinity (CaCO3)		93.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	686674007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	686674008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 16:18		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7130	134	400	mg/L		2000	TXT1	09/24/24	0646	2676438	1
Sulfate		1220	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0252	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		4450	40.0	125	mg/L	1.00	500	PRB	10/03/24	1239	2675189	3
Boron		1.88	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1324	2675189	4
Calcium		185	1.60	4.00	mg/L	1.00	20					
Magnesium		525	0.200	0.600	mg/L	1.00	20					
Potassium		165	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00438	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2010	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		14000	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		88.7	0.725	2.00	mg/L			HH2	09/23/24	1731	2675519	7
Bicarbonate alkalinity (CaCO3)		88.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	686674008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	686674009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:57		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8710	134	400	mg/L		2000	TXT1	09/24/24	0718	2676438	1
Sulfate		1430	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0324	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron		2.19	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1327	2675189	3
Calcium		211	1.60	4.00	mg/L	1.00	20					
Magnesium		619	0.200	0.600	mg/L	1.00	20					
Potassium		195	1.60	6.00	mg/L	1.00	20					
Sodium		5200	40.0	125	mg/L	1.00	500	PRB	10/03/24	1241	2675189	4
Arsenic	J	0.00461	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2014	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17500	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		93.5	0.725	2.00	mg/L			HH2	09/23/24	1735	2675519	7
Bicarbonate alkalinity (CaCO3)		93.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	686674009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	686674010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10800	134	400	mg/L		2000	TXT1	09/24/24	0749	2676438	1
Sulfate		1670	266	800	mg/L		2000					
Fluoride	J	0.948	0.825	2.50	mg/L		25	TXT1	09/25/24	0355	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00501	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2028	2675189	3
Sodium		6480	40.0	125	mg/L	1.00	500	PRB	10/03/24	1243	2675189	4
Boron		2.56	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1329	2675189	5
Calcium		248	1.60	4.00	mg/L	1.00	20					
Magnesium		735	0.200	0.600	mg/L	1.00	20					
Potassium		232	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		20400	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		99.4	0.725	2.00	mg/L			HH2	09/23/24	1738	2675519	7
Bicarbonate alkalinity (CaCO3)		99.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	686674010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	686674011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8970	134	400	mg/L		2000	TXT1	09/24/24	0820	2676438	1
Sulfate		1460	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0427	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron		2.16	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1331	2675189	3
Calcium		208	1.60	4.00	mg/L	1.00	20					
Magnesium		600	0.200	0.600	mg/L	1.00	20					
Potassium		190	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2032	2675189	4
Sodium		5040	40.0	125	mg/L	1.00	500	PRB	10/03/24	1246	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18200	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.0	0.725	2.00	mg/L			HH2	09/23/24	1740	2675519	7
Bicarbonate alkalinity (CaCO3)		95.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	686674011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	686674012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 18:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/24/24	0923	2676438	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	10/03/24	1337	2675189	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2036	2675189	3
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.60	0.725	2.00	mg/L			HH2	09/23/24	1743	2675519	5
Bicarbonate alkalinity (CaCO3)	J	1.60	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	686674012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	686674013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 19:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/24/24	0955	2676438	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	10/03/24	1340	2675189	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2040	2675189	3
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	8.00	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/23/24	1745	2675519	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	686674013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2676438											
QC1205863556 685298008 DUP											
Chloride		27.7		27.8	mg/L	0.369		(0%-20%)	TXT1	09/24/24	14:19
Fluoride		0.207		0.221	mg/L	6.4	^	(+/-0.100)		09/23/24	18:44
Sulfate		21.5		21.5	mg/L	0.33		(0%-20%)		09/24/24	14:19
QC1205863555 LCS											
Chloride	5.00			4.67	mg/L		93.4	(90%-110%)		09/23/24	17:42
Fluoride	2.50			2.34	mg/L		93.6	(90%-110%)			
Sulfate	10.0			9.40	mg/L		94	(90%-110%)			
QC1205863554 MB											
Chloride			U	ND	mg/L					09/23/24	17:10
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205863557 685298008 PS											
Chloride	5.00	5.55		10.9	mg/L		108	(90%-110%)		09/24/24	14:51
Fluoride	2.50	0.207		2.57	mg/L		94.6	(90%-110%)		09/23/24	19:16
Sulfate	10.0	4.31		13.9	mg/L		95.7	(90%-110%)		09/24/24	14:51

QC Summary

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675189										
QC1205860709 LCS										
Arsenic	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	10/02/24 19:19
Boron	0.100			0.104	mg/L		104	(80%-120%)		10/03/24 12:11
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Magnesium	2.00			1.99	mg/L		99.4	(80%-120%)		
Potassium	2.00			1.95	mg/L		97.7	(80%-120%)		
Sodium	2.00			2.00	mg/L		100	(80%-120%)		
QC1205860708 MB										
Arsenic			U	ND	mg/L					10/02/24 19:15
Boron			U	ND	mg/L					10/03/24 12:09
Calcium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205860710 686674001 MS										
Arsenic	0.0500	J	0.00421	0.0438	mg/L		79.2	(75%-125%)		10/02/24 19:26
Boron	0.100		2.14	2.30	mg/L		N/A	(75%-125%)		10/03/24 13:01

QC Summary

Workorder: **686674**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675189											
Calcium	2.00		216		219	mg/L		N/A	(75%-125%)	PRB	10/03/24 13:01
Magnesium	2.00		623		633	mg/L		N/A	(75%-125%)		
Potassium	2.00		198		203	mg/L		N/A	(75%-125%)		
Sodium	2.00		5350		5360	mg/L		N/A	(75%-125%)		10/03/24 12:16
QC1205860711 686674001 MSD											
Arsenic	0.0500	J	0.00421		0.0447	mg/L	1.92	80.9	(0%-20%)		10/02/24 19:30
Boron	0.100		2.14		2.34	mg/L	1.74	N/A	(0%-20%)		10/03/24 13:03
Calcium	2.00		216		217	mg/L	1.03	N/A	(0%-20%)		
Magnesium	2.00		623		624	mg/L	1.44	N/A	(0%-20%)		
Potassium	2.00		198		199	mg/L	1.88	N/A	(0%-20%)		
Sodium	2.00		5350		5390	mg/L	0.555	N/A	(0%-20%)		10/03/24 12:18
QC1205860712 686674001 SDILT											
Arsenic		J	4.21	U	ND	ug/L	N/A		(0%-20%)		10/02/24 19:37
Boron			107		23.5	ug/L	9.94		(0%-20%)		10/03/24 13:05
Calcium			10800		2240	ug/L	3.68		(0%-20%)		
Magnesium			31200		6380	ug/L	2.33		(0%-20%)		

QC Summary

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675189										
Potassium		9880		1990	ug/L	.641		(0%-20%)	PRB	10/03/24 13:05
Sodium		10700		2140	ug/L	.267		(0%-20%)		10/03/24 12:20
Solids Analysis										
Batch 2677630										
QC1205865957 686477001 DUP										
Total Dissolved Solids		933		928	mg/L	0.537		(0%-5%)	KLP1	09/25/24 11:28
QC1205865956 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		09/25/24 11:28
QC1205865955 MB										
Total Dissolved Solids			U	ND	mg/L					09/25/24 11:28
Titration and Ion Analysis										
Batch 2675519										
QC1205861419 LCS										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L		104	(90%-110%)	HH2	09/23/24 17:00
QC1205861420 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		09/23/24 17:05
QC1205861421 LCSD										
Alkalinity, Total as CaCO3	50.0			52.4	mg/L	0.574	105	(0%-20%)		09/23/24 17:02
QC1205861422 LCSD										
Alkalinity, Total as CaCO3	15.0			14.6	mg/L	2.7	97.3	(0%-20%)		09/23/24 17:08

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

QC Summary

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 686674

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675189

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675188

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205860708	Method Blank (MB)**ICP-MS**
1205860709	Laboratory Control Sample (LCS)
1205860712	686674001(MCM-T2-1HTL) Serial Dilution (SD)
1205860710	686674001(MCM-T2-1HTS) Matrix Spike (MS)
1205860711	686674001(MCM-T2-1HTSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT) and 686674010 (MCM-BG-2HT) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686674									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Boron	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Calcium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Magnesium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Potassium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sodium	500X	500X	500X	500X	500X	500X	500X	500X	500X	500X

Analyte	686674
	011
Boron	20X
Calcium	20X
Magnesium	20X
Potassium	20X
Sodium	500X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2676438

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205863554	Method Blank (MB)
1205863555	Laboratory Control Sample (LCS)
1205863556	685298008(NonSDG) Sample Duplicate (DUP)
1205863557	685298008(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205863556 (Non SDG 685298008DUP) and 1205863557 (Non SDG 685298008PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	686674									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X
Fluoride	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Sulfate	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X

Analyte	686674
	011
Chloride	2000X
Fluoride	25X
Sulfate	2000X

Miscellaneous Information

Manual Integrations
Samples 1205863556 (Non SDG 685298008DUP) and 1205863557 (Non SDG 685298008PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2677630

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID# **Client Sample Identification**

686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205865955	Method Blank (MB)
1205865956	Laboratory Control Sample (LCS)
1205865957	686477001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2675519

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205861419	Laboratory Control Sample (LCS)

1205861420	Laboratory Control Sample (LCS)
1205861421	Laboratory Control Sample Duplicate (LCSD)
1205861422	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

686674

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus Surface Water Sampling Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	NI	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)	Comments
MCM-T2-1HT	09/18/24	1002	G	N	WS			4	X		X	X	X		Note: extra sample is required for sample specific QC
MCM-T2-2HT	09/18/24	1023	G	N	WS			4	X		X	X	X		
MCM-T2-2HTS	09/18/24	1009	G	N	WS			4	X		X	X	X		
MCM-T2-3HT	09/18/24	1048	G	N	WS			4	X		X	X	X		
MCM-T2-3HTS	09/18/24	1036	G	N	WS			4	X		X	X	X		
MCM-T2-4HT	09/18/24	1116	G	N	WS			4	X		X	X	X		
MCM-T2-4HTS	09/18/24	1102	G	N	WS			4	X		X	X	X		
MCM-T2-4LT	09/18/24	1618	G	N	WS			4	X		X	X	X		
MCM-BG-1LT	09/18/24	1557	G	N	WS			4	X		X	X	X		
MCM-BG-2HT	09/18/24	0937	G	N	WS			4	X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/19/24	1250		9/19/24	1250
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page 42 of 44 SDG: 686674

Project # GPCC00105
GEL Quote #: GELP22-0819
QAPP Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus Surface Water Sampling Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)	Comments
MCM-CSURF-FD-01	09/18/24	—	FD	N	WS			4	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-CSURF-FB-01	09/18/24	1858	FB	N	WQ			4	X	X	X	X		
MCM-CSURF-FB-			FB	N	WQ				X	X	X	X		
MCM-CSURF-EB-01	09/18/24	1900	EB	N	WQ			4	X	X	X	X		
MCM-CSURF-EB-			EB	N	WQ				X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/19/24	1250		9/19/24	1250
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

686674

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/19/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		■	✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓	■		Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓	■		Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓	■		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		■		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓	■		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓	■		ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓	■		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓	■		
13	COC form is properly signed in relinquished/received sections?	✓	■		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler:
1- 0°C
2- 0°C

PM (or PMA) review: Initials WF Date 9/20/24 Page 1 of 1

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/18/24

Calibrated By: Jay Skinner / William Loaker

Field Conditions: 52°/69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0808	Time Finish	0824		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.45	24.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4502.1	24.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.51	± 0.1	GWMP
pH (SU)	7.00	7.03	24.51	± 0.1	GWMP
pH (SU)	10.00	10.02	24.49	± 0.1	GWMP
ORP (mV)	228.0	220.6	24.40	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.28		

Calibration Check					
Time Start	~~0851~~ 1851	Time Finish	1901		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4584.1	27.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	27.35	± 0.1	GWMP
pH (SU)	7.00	7.01	26.89	± 0.1	GWMP
pH (SU)	10.00	10.10	26.58	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.05		

Notes:

Low-Flow Test Report:

Test Date / Time: 9/18/2024 9:33:05 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: BG-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 9:33 AM	00:00	7.12 pH	26.51 °C	32,868 µS/cm	5.31 mg/L	17.30 NTU	202.8 mV		20.88 PSU	250.00 ml/min
9/18/2024 9:34 AM	01:00	7.18 pH	26.68 °C	32,833 µS/cm	5.22 mg/L		199.7 mV		20.86 PSU	250.00 ml/min
9/18/2024 9:35 AM	02:00	7.22 pH	26.76 °C	32,702 µS/cm	5.14 mg/L	17.30 NTU	196.1 mV		20.76 PSU	250.00 ml/min

Samples

Sample ID:	Description:
BG-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:00:05 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-1HT	**Flow Cell Volume: 90 ml**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:00 AM	00:00	7.34 pH	27.78 °C	27,908 µS/cm	4.56 mg/L	5.02 NTU	155.7 mV		17.44 PSU
9/18/2024 10:01 AM	01:00	7.32 pH	27.96 °C	27,980 µS/cm	4.49 mg/L		160.5 mV		17.49 PSU
9/18/2024 10:02 AM	02:00	7.31 pH	27.94 °C	28,062 µS/cm	4.47 mg/L	5.02 NTU	152.4 mV		17.55 PSU

Samples

Sample ID:	Description:
T2-1HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:09:23 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:09 AM	00:00	7.26 pH	27.55 °C	28,023 µS/cm	4.46 mg/L	5.95 NTU	141.6 mV		17.52 PSU
9/18/2024 10:10 AM	01:00	7.26 pH	27.83 °C	27,969 µS/cm	4.42 mg/L		145.9 mV		17.49 PSU
9/18/2024 10:11 AM	02:00	7.26 pH	27.83 °C	28,032 µS/cm	4.42 mg/L	5.95 NTU	136.9 mV		17.53 PSU

Samples

Sample ID:	Description:
T2-2HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:20:11 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 10:20 AM	00:00	7.28 pH	26.93 °C	28,119 µS/cm	4.53 mg/L	5.77 NTU	124.8 mV		17.58 PSU	250.00 ml/min
9/18/2024 10:21 AM	01:00	7.27 pH	27.00 °C	28,159 µS/cm	4.43 mg/L		119.4 mV		17.61 PSU	250.00 ml/min
9/18/2024 10:22 AM	02:00	7.26 pH	26.88 °C	28,182 µS/cm	4.45 mg/L	5.77 NTU	115.8 mV		17.63 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:36:25 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:36 AM	00:00	7.35 pH	27.56 °C	27,534 µS/cm	4.91 mg/L	4.20 NTU	106.3 mV		17.19 PSU
9/18/2024 10:37 AM	01:00	7.32 pH	27.84 °C	27,465 µS/cm	4.75 mg/L		109.4 mV		17.14 PSU
9/18/2024 10:38 AM	02:00	7.31 pH	27.83 °C	27,524 µS/cm	4.66 mg/L	4.20 NTU	103.0 mV		17.18 PSU

Samples

Sample ID:	Description:
T2-3HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:45:54 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 10:45 AM	00:00	7.29 pH	26.94 °C	29,120 µS/cm	4.22 mg/L	6.90 NTU	99.2 mV		18.27 PSU	250.00 ml/min
9/18/2024 10:46 AM	01:00	7.28 pH	27.06 °C	29,081 µS/cm	4.30 mg/L		95.0 mV		18.25 PSU	250.00 ml/min
9/18/2024 10:47 AM	02:00	7.28 pH	26.96 °C	29,167 µS/cm	4.38 mg/L	6.90 NTU	92.8 mV		18.31 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-3HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 11:01:18 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 11:01 AM	00:00	7.34 pH	27.93 °C	28,243 µS/cm	4.60 mg/L	4.31 NTU	90.9 mV		17.67 PSU
9/18/2024 11:02 AM	01:00	7.31 pH	28.01 °C	28,323 µS/cm	4.45 mg/L		88.0 mV		17.73 PSU
9/18/2024 11:03 AM	02:00	7.30 pH	28.03 °C	28,314 µS/cm	4.38 mg/L	4.31 NTU	86.1 mV		17.72 PSU

Samples

Sample ID:	Description:
T2-4HTS	Metals, Inorganics, Alkalinity, TDS
FD-01	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 11:13:24 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 11:13 AM	00:00	7.32 pH	27.04 °C	29,017 µS/cm	4.57 mg/L	5.40 NTU	87.3 mV		18.20 PSU	250.00 ml/min
9/18/2024 11:14 AM	01:00	7.30 pH	27.06 °C	29,028 µS/cm	4.58 mg/L		84.1 mV		18.21 PSU	250.00 ml/min
9/18/2024 11:15 AM	02:00	7.29 pH	26.95 °C	29,122 µS/cm	4.63 mg/L	5.40 NTU	82.5 mV		18.27 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-4HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 3:52:54 PM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: BG-1LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 3:52 PM	00:00	7.35 pH	29.56 °C	27,197 µS/cm	4.69 mg/L	12.50 NTU	63.9 mV		16.96 PSU	250.00 ml/min
9/18/2024 3:53 PM	01:00	7.32 pH	29.04 °C	27,392 µS/cm	4.75 mg/L		63.1 mV		17.09 PSU	250.00 ml/min
9/18/2024 3:54 PM	02:00	7.30 pH	28.81 °C	27,485 µS/cm	4.79 mg/L	12.50 NTU	62.2 mV		17.16 PSU	250.00 ml/min

Samples

Sample ID:	Description:
BG-1LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 4:23:40 PM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4LT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 4:23 PM	00:00	7.25 pH	29.93 °C	23,676 µS/cm	4.44 mg/L	11.30 NTU	57.3 mV		14.57 PSU
9/18/2024 4:24 PM	01:00	7.24 pH	30.13 °C	23,602 µS/cm	4.41 mg/L		57.5 mV		14.52 PSU
9/18/2024 4:25 PM	02:00	7.23 pH	30.35 °C	23,595 µS/cm	4.38 mg/L	11.30 NTU	57.8 mV		14.51 PSU

Samples

Sample ID:	Description:
T2-4LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

April 13, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Surface Water Sampling March 2025
Work Order: 716372

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 27, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
716372001	MCM-T2-1HT	Surface Water	03/26/25 08:40	03/27/25 14:35
716372002	MCM-T2-2HT	Surface Water	03/26/25 08:56	03/27/25 14:35
716372003	MCM-T2-2HTS	Surface Water	03/26/25 08:46	03/27/25 14:35
716372004	MCM-T2-3HT	Surface Water	03/26/25 09:12	03/27/25 14:35
716372005	MCM-T2-3HTS	Surface Water	03/26/25 09:04	03/27/25 14:35
716372006	MCM-T2-4HT	Surface Water	03/26/25 09:31	03/27/25 14:35
716372007	MCM-T2-4HTS	Surface Water	03/26/25 09:21	03/27/25 14:35
716372008	MCM-T2-4LT	Surface Water	03/26/25 13:42	03/27/25 14:35
716372009	MCM-BG-1LT	Surface Water	03/26/25 13:14	03/27/25 14:35
716372010	MCM-BG-2HT	Surface Water	03/26/25 08:13	03/27/25 14:35
716372011	MCM-CSURF-FD-01	Surface Water	03/26/25 12:00	03/27/25 14:35
716372012	MCM-CSURF-FB-01	Water	03/26/25 16:26	03/27/25 14:35
716372013	MCM-CSURF-EB-01	Water	03/26/25 16:32	03/27/25 14:35

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-APR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	29-MAR-2025
EPA 300.0	30-MAR-2025
SM 2320B	27-MAR-2025
SM 2540C	02-APR-2025
SW846 3005A/6020B	11-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 716372 GEL Work Order: 716372

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	716372001	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 08:40		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.14	0.660	2.00	mg/L		20	CWW	03/29/25	1254	2773584	1
Chloride		8650	134	400	mg/L		2000	CWW	03/30/25	0106	2773584	2
Sulfate		1700	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00235	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0114	2772801	3
Boron		2.10	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1539	2772801	4
Calcium		200	1.60	4.00	mg/L	1.00	20					
Magnesium		590	0.200	0.600	mg/L	1.00	20					
Potassium		183	1.60	6.00	mg/L	1.00	20					
Sodium		5150	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1634	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		15800	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.6	0.725	2.00	mg/L			JW2	03/27/25	1620	2772768	7
Bicarbonate alkalinity (CaCO3)		84.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	716372001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	716372002	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 08:56		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.07	0.660	2.00	mg/L		20	CWW	03/29/25	1325	2773584	1
Chloride		8680	134	400	mg/L		2000	CWW	03/30/25	0241	2773584	2
Sulfate		1350	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00274	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0133	2772801	3
Boron		2.11	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1550	2772801	4
Calcium		203	1.60	4.00	mg/L	1.00	20					
Magnesium		601	0.200	0.600	mg/L	1.00	20					
Potassium		186	1.60	6.00	mg/L	1.00	20					
Sodium		5190	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1456	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16000	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.7	0.725	2.00	mg/L			JW2	03/27/25	1621	2772768	7
Bicarbonate alkalinity (CaCO3)		84.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	716372002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	716372003	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 08:46		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.07	0.660	2.00	mg/L		20	CWW	03/29/25	1357	2773584	1
Chloride		7980	134	400	mg/L		2000	CWW	03/30/25	0417	2773584	2
Sulfate		1250	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00270	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0136	2772801	3
Boron		2.16	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1553	2772801	4
Calcium		208	1.60	4.00	mg/L	1.00	20					
Magnesium		610	0.200	0.600	mg/L	1.00	20					
Potassium		189	1.60	6.00	mg/L	1.00	20					
Sodium		5140	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1458	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		15500	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.8	0.725	2.00	mg/L			JW2	03/27/25	1623	2772768	7
Bicarbonate alkalinity (CaCO3)		84.8	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	716372003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	716372004	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 09:12		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.04	0.660	2.00	mg/L		20	CWW	03/29/25	1429	2773584	1
Chloride		8260	134	400	mg/L		2000	CWW	03/30/25	0448	2773584	2
Sulfate		1530	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00276	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0139	2772801	3
Boron		2.34	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1556	2772801	4
Calcium		225	1.60	4.00	mg/L	1.00	20					
Magnesium		658	0.200	0.600	mg/L	1.00	20					
Potassium		204	1.60	6.00	mg/L	1.00	20					
Sodium		5410	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1501	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		19000	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		86.6	0.725	2.00	mg/L			JW2	03/27/25	1624	2772768	7
Bicarbonate alkalinity (CaCO3)		86.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	716372004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00724
Sample ID:	716372005	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 09:04		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.13	0.660	2.00	mg/L		20	CWW	03/29/25	1947	2773584	1
Chloride		8290	134	400	mg/L		2000	CWW	03/30/25	0520	2773584	2
Sulfate		1640	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00281	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0141	2772801	3
Boron		2.26	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1559	2772801	4
Calcium		212	1.60	4.00	mg/L	1.00	20					
Magnesium		620	0.200	0.600	mg/L	1.00	20					
Potassium		193	1.60	6.00	mg/L	1.00	20					
Sodium		5010	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1509	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16000	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.2	0.725	2.00	mg/L			JW2	03/27/25	1625	2772768	7
Bicarbonate alkalinity (CaCO3)		84.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00724
Sample ID:	716372005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	716372006	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 09:31		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.04	0.660	2.00	mg/L		20	CWW	03/29/25	2019	2773584	1
Chloride		8230	134	400	mg/L		2000	CWW	03/30/25	0552	2773584	2
Sulfate		1680	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00281	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0144	2772801	3
Boron		2.17	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1602	2772801	4
Calcium		209	1.60	4.00	mg/L	1.00	20					
Magnesium		601	0.200	0.600	mg/L	1.00	20					
Potassium		188	1.60	6.00	mg/L	1.00	20					
Sodium		5030	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1512	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16700	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		82.7	0.725	2.00	mg/L			JW2	03/27/25	1626	2772768	7
Bicarbonate alkalinity (CaCO3)		82.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	716372006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	716372007	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 09:21		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.07	0.660	2.00	mg/L		20	CWW	03/29/25	2051	2773584	1
Chloride		7960	134	400	mg/L		2000	CWW	03/30/25	0728	2773584	2
Sulfate		1590	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00290	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0147	2772801	3
Boron		2.13	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1620	2772801	4
Calcium		207	1.60	4.00	mg/L	1.00	20					
Magnesium		612	0.200	0.600	mg/L	1.00	20					
Potassium		188	1.60	6.00	mg/L	1.00	20					
Sodium		5140	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1515	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16400	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		82.2	0.725	2.00	mg/L			JW2	03/27/25	1627	2772768	7
Bicarbonate alkalinity (CaCO3)		82.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	716372007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	716372008	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 13:42		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.934	0.660	2.00	mg/L		20	CWW	03/29/25	2123	2773584	1
Chloride		6340	134	400	mg/L		2000	CWW	03/30/25	0800	2773584	2
Sulfate		1360	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00296	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0155	2772801	3
Boron		1.71	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1623	2772801	4
Calcium		164	1.60	4.00	mg/L	1.00	20					
Magnesium		463	0.200	0.600	mg/L	1.00	20					
Potassium		144	1.60	6.00	mg/L	1.00	20					
Sodium		3880	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1518	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		12500	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		81.2	0.725	2.00	mg/L			JW2	03/27/25	1628	2772768	7
Bicarbonate alkalinity (CaCO3)		81.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	716372008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	716372009	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 13:14		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.13	0.660	2.00	mg/L		20	CWW	03/29/25	2154	2773584	1
Chloride		8190	134	400	mg/L		2000	CWW	03/30/25	0831	2773584	2
Sulfate		1580	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00291	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0158	2772801	3
Boron		2.29	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1625	2772801	4
Calcium		222	1.60	4.00	mg/L	1.00	20					
Magnesium		648	0.200	0.600	mg/L	1.00	20					
Potassium		201	1.60	6.00	mg/L	1.00	20					
Sodium		5380	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1520	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18000	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.4	0.725	2.00	mg/L			JW2	03/27/25	1630	2772768	7
Bicarbonate alkalinity (CaCO3)		84.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	716372009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	716372010	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 08:13		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.23	0.660	2.00	mg/L		20	CWW	03/29/25	2226	2773584	1
Chloride		10800	134	400	mg/L		2000	CWW	03/30/25	0903	2773584	2
Sulfate		2100	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00336	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0200	2772801	3
Boron		2.89	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1628	2772801	4
Calcium		275	1.60	4.00	mg/L	1.00	20					
Magnesium		817	0.200	0.600	mg/L	1.00	20					
Potassium		253	1.60	6.00	mg/L	1.00	20					
Sodium		7000	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1523	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		21600	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		105	0.725	2.00	mg/L			JW2	03/27/25	1631	2772768	7
Bicarbonate alkalinity (CaCO3)		105	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	716372010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	716372011	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	26-MAR-25 12:00		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	1.14	0.660	2.00	mg/L		20	CWW	03/29/25	2258	2773584	1
Chloride		8510	134	400	mg/L		2000	CWW	03/30/25	0935	2773584	2
Sulfate		1740	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00271	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	0203	2772801	3
Boron		2.27	0.104	0.300	mg/L	1.00	20	PRB	04/11/25	1631	2772801	4
Calcium		213	1.60	4.00	mg/L	1.00	20					
Magnesium		624	0.200	0.600	mg/L	1.00	20					
Potassium		194	1.60	6.00	mg/L	1.00	20					
Sodium		5200	16.0	50.0	mg/L	1.00	200	PRB	04/11/25	1526	2772801	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16700	23.8	100	mg/L			KLP1	04/02/25	1040	2775178	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		84.2	0.725	2.00	mg/L			JW2	03/27/25	1632	2772768	7
Bicarbonate alkalinity (CaCO3)		84.2	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	716372011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	716372012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	26-MAR-25 16:26		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	03/29/25	1843	2773584	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	1812	2772801	2
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	04/02/25	1040	2775178	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	03/27/25	1633	2772768	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	716372012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	716372013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	26-MAR-25 16:32		
Receive Date:	27-MAR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	03/29/25	1915	2773584	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	04/11/25	1813	2772801	2
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	04/02/25	1040	2775178	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	03/27/25	1634	2772768	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/01/25	0945	2772800

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 13, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling March 2025

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	716372013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: April 13, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **716372**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2773584												
QC1206053792 716372001 DUP												
Chloride			8650		8650	mg/L	0.0509			(0%-20%)	CWW	03/30/25 01:37
Fluoride		J	1.14	J	1.05	mg/L	7.87	^		(+/-2.00)		03/29/25 15:01
Sulfate			1700		1700	mg/L	0.0706	^		(+/-800)		03/30/25 01:37
QC1206053794 716372002 DUP												
Chloride			8680		8700	mg/L	0.168			(0%-20%)		03/30/25 03:13
Fluoride		J	1.07	J	1.05	mg/L	1.7	^		(+/-2.00)		03/29/25 16:04
Sulfate			1350		1680	mg/L	21.4	^		(+/-800)		03/30/25 03:13
QC1206053791 LCS												
Chloride	5.00				4.66	mg/L			93.3	(90%-110%)		03/29/25 12:22
Fluoride	2.50				2.34	mg/L			93.6	(90%-110%)		
Sulfate	10.0				9.51	mg/L			95.1	(90%-110%)		
QC1206053790 MB												
Chloride				U	ND	mg/L						03/29/25 11:50
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **716372**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2773584											
QC1206053793 716372001 PS											
Chloride	5.00		4.33		9.07	mg/L		94.9	(90%-110%)	CWW	03/30/25 02:09
Fluoride	2.50	J	0.0568		2.32	mg/L		90.4	(90%-110%)		03/29/25 15:32
Sulfate	10.0		0.850		9.59	mg/L		87.4*	(90%-110%)		03/30/25 02:09
QC1206053795 716372002 PS											
Chloride	5.00		4.34		9.14	mg/L		95.9	(90%-110%)		03/30/25 03:45
Fluoride	2.50	J	0.0535		2.33	mg/L		91.2	(90%-110%)		03/29/25 16:36
Sulfate	10.0		0.676		9.60	mg/L		89.2*	(90%-110%)		03/30/25 03:45
Metals Analysis - ICPMS											
Batch 2772801											
QC1206052068 LCS											
Arsenic	0.0500				0.0492	mg/L		98.4	(80%-120%)	PRB	04/11/25 18:11
Boron	0.100				0.104	mg/L		104	(80%-120%)		
Calcium	2.00				2.10	mg/L		105	(80%-120%)		
Magnesium	2.00				2.04	mg/L		102	(80%-120%)		
Potassium	2.00				2.01	mg/L		100	(80%-120%)		
Sodium	2.00				2.00	mg/L		99.9	(80%-120%)		
QC1206052067 MB											
Arsenic				U	ND	mg/L					04/11/25 18:10

QC Summary

Workorder: **716372**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2772801											
Boron				U	ND	mg/L				PRB	04/11/25 18:10
Calcium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Potassium				U	ND	mg/L					
Sodium				U	ND	mg/L					
QC1206052069 716372001 MS											
Arsenic	0.0500	J	0.00235		0.0442	mg/L		83.7	(75%-125%)		04/11/25 01:17
Boron	0.100		2.10		2.21	mg/L		N/A	(75%-125%)		04/11/25 15:42
Calcium	2.00		200		205	mg/L		N/A	(75%-125%)		
Magnesium	2.00		590		599	mg/L		N/A	(75%-125%)		
Potassium	2.00		183		185	mg/L		N/A	(75%-125%)		
Sodium	2.00		5150		4870	mg/L		N/A	(75%-125%)		04/11/25 16:36
QC1206052070 716372001 MSD											
Arsenic	0.0500	J	0.00235		0.0442	mg/L	0.0927	83.8	(0%-20%)		04/11/25 01:19
Boron	0.100		2.10		2.29	mg/L	3.44	N/A	(0%-20%)		04/11/25 15:45
Calcium	2.00		200		212	mg/L	3.53	N/A	(0%-20%)		

QC Summary

Workorder: **716372**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2772801										
Magnesium	2.00	590		614	mg/L	2.56	N/A	(0%-20%)	PRB	04/11/25 15:45
Potassium	2.00	183		193	mg/L	3.97	N/A	(0%-20%)		
Sodium	2.00	5150		5150	mg/L	5.63	N/A	(0%-20%)		04/11/25 16:39
QC1206052071 716372001 SDILT										
Arsenic	J	2.35	U	ND	ug/L	N/A		(0%-20%)		04/11/25 01:25
Boron		105		25.0	ug/L	19.1		(0%-20%)		04/11/25 15:48
Calcium		10000		2070	ug/L	3.23		(0%-20%)		
Magnesium		29500		6000	ug/L	1.71		(0%-20%)		
Potassium		9170		1850	ug/L	1.01		(0%-20%)		
Sodium		25700		5300	ug/L	2.93		(0%-20%)		04/11/25 16:42
Solids Analysis										
Batch 2775178										
QC1206057299 716231005 DUP										
Total Dissolved Solids		247		255	mg/L	3.19		(0%-5%)	KLP1	04/02/25 10:40
QC1206057298 LCS										
Total Dissolved Solids	300			295	mg/L		98.3	(95%-105%)		04/02/25 10:40
QC1206057297 MB										
Total Dissolved Solids			U	ND	mg/L					04/02/25 10:40

QC Summary

Workorder: **716372**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2772768										
QC1206052003 LCS										
Alkalinity, Total as CaCO3	50.0			53.6	mg/L		107	(90%-110%)	JW2	03/27/25 16:16
QC1206052004 LCS										
Alkalinity, Total as CaCO3	15.0			16.0	mg/L		107	(90%-110%)		03/27/25 16:18
QC1206052005 LCSD										
Alkalinity, Total as CaCO3	50.0			53.5	mg/L	0.187	107	(0%-20%)		03/27/25 16:17
QC1206052006 LCSD										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L	0.627	106	(0%-20%)		03/27/25 16:19

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **716372**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 716372

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2772801

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2772800

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716372001	MCM-T2-1HT
716372002	MCM-T2-2HT
716372003	MCM-T2-2HTS
716372004	MCM-T2-3HT
716372005	MCM-T2-3HTS
716372006	MCM-T2-4HT
716372007	MCM-T2-4HTS
716372008	MCM-T2-4LT
716372009	MCM-BG-1LT
716372010	MCM-BG-2HT
716372011	MCM-CSURF-FD-01
716372012	MCM-CSURF-FB-01
716372013	MCM-CSURF-EB-01
1206052067	Method Blank (MB)**ICP-MS**
1206052068	Laboratory Control Sample (LCS)
1206052071	716372001(MCM-T2-1HTL) Serial Dilution (SD)
1206052069	716372001(MCM-T2-1HTS) Matrix Spike (MS)
1206052070	716372001(MCM-T2-1HTSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 716372001 (MCM-T2-1HT), 716372002 (MCM-T2-2HT), 716372003 (MCM-T2-2HTS), 716372004 (MCM-T2-3HT), 716372005 (MCM-T2-3HTS), 716372006 (MCM-T2-4HT), 716372007 (MCM-T2-4HTS), 716372008 (MCM-T2-4LT), 716372009 (MCM-BG-1LT) and 716372010 (MCM-BG-2HT) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	716372									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Boron	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Calcium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Magnesium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Potassium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X

Analyte	716372
	011
Boron	20X
Calcium	20X
Magnesium	20X
Potassium	20X
Sodium	200X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2773584

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716372001	MCM-T2-1HT
716372002	MCM-T2-2HT
716372003	MCM-T2-2HTS
716372004	MCM-T2-3HT
716372005	MCM-T2-3HTS
716372006	MCM-T2-4HT
716372007	MCM-T2-4HTS
716372008	MCM-T2-4LT
716372009	MCM-BG-1LT
716372010	MCM-BG-2HT
716372011	MCM-CSURF-FD-01
716372012	MCM-CSURF-FB-01
716372013	MCM-CSURF-EB-01
1206053790	Method Blank (MB)
1206053791	Laboratory Control Sample (LCS)
1206053792	716372001(MCM-T2-1HT) Sample Duplicate (DUP)
1206053793	716372001(MCM-T2-1HT) Post Spike (PS)

1206053794 716372002(MCM-T2-2HT) Sample Duplicate (DUP)
1206053795 716372002(MCM-T2-2HT) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1206053793 (MCM-T2-1HTPS)	87.4* (90%-110%)
	1206053795 (MCM-T2-2HTPS)	89.2* (90%-110%)

Technical Information

Sample Dilutions
Samples 1206053792 (MCM-T2-1HTDUP), 1206053793 (MCM-T2-1HTPS), 1206053794 (MCM-T2-2HTDUP), 1206053795 (MCM-T2-2HTPS), 716372001 (MCM-T2-1HT), 716372002 (MCM-T2-2HT), 716372003 (MCM-T2-2HTS), 716372004 (MCM-T2-3HT), 716372005 (MCM-T2-3HTS), 716372006 (MCM-T2-4HT), 716372007 (MCM-T2-4HTS), 716372008 (MCM-T2-4LT), 716372009 (MCM-BG-1LT), 716372010 (MCM-BG-2HT) and 716372011 (MCM-CSURF-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1206053792 (MCM-T2-1HTDUP), 1206053793 (MCM-T2-1HTPS), 1206053794 (MCM-T2-2HTDUP), 1206053795 (MCM-T2-2HTPS), 716372001 (MCM-T2-1HT), 716372002 (MCM-T2-2HT), 716372003 (MCM-T2-2HTS), 716372004 (MCM-T2-3HT), 716372005 (MCM-T2-3HTS), 716372006 (MCM-T2-4HT), 716372007 (MCM-T2-4HTS), 716372008 (MCM-T2-4LT), 716372009 (MCM-BG-1LT), 716372010 (MCM-BG-2HT) and 716372011 (MCM-CSURF-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	716372									
	001	002	003	004	005	006	007	008	009	010
Chloride	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X
Fluoride	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sulfate	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X

Analyte	716372
	011
Chloride	2000X
Fluoride	20X
Sulfate	2000X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2775178

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716372001	MCM-T2-1HT
716372002	MCM-T2-2HT
716372003	MCM-T2-2HTS
716372004	MCM-T2-3HT
716372005	MCM-T2-3HTS
716372006	MCM-T2-4HT
716372007	MCM-T2-4HTS
716372008	MCM-T2-4LT
716372009	MCM-BG-1LT
716372010	MCM-BG-2HT
716372011	MCM-CSURF-FD-01
716372012	MCM-CSURF-FB-01
716372013	MCM-CSURF-EB-01
1206057297	Method Blank (MB)
1206057298	Laboratory Control Sample (LCS)
1206057299	716231005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Consecutive Weight Checks
In order to meet consecutive weight check criteria, weight events must be within 0.0005g of each other. After initial weight checks failed this criteria, the analyst performed two additional weight events. After four weight events, the analyst was unable to get the samples to conform to the criteria. The failure to meet weigh back criteria is attributed to the matrix of the samples. 716372009 (MCM-BG-1LT) and 716372010 (MCM-BG-2HT).

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 716372001 (MCM-T2-1HT), 716372002 (MCM-T2-2HT), 716372003 (MCM-T2-2HTS), 716372004 (MCM-T2-3HT), 716372005 (MCM-T2-3HTS), 716372006 (MCM-T2-4HT), 716372007 (MCM-T2-4HTS), 716372008 (MCM-T2-4LT), 716372009 (MCM-BG-1LT), 716372010 (MCM-BG-2HT) and 716372011 (MCM-CSURF-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17

Analytical Batch: 2772768

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
716372001	MCM-T2-1HT
716372002	MCM-T2-2HT
716372003	MCM-T2-2HTS
716372004	MCM-T2-3HT
716372005	MCM-T2-3HTS
716372006	MCM-T2-4HT
716372007	MCM-T2-4HTS
716372008	MCM-T2-4LT
716372009	MCM-BG-1LT
716372010	MCM-BG-2HT
716372011	MCM-CSURF-FD-01
716372012	MCM-CSURF-FB-01
716372013	MCM-CSURF-EB-01
1206052003	Laboratory Control Sample (LCS)
1206052004	Laboratory Control Sample (LCS)
1206052005	Laboratory Control Sample Duplicate (LCSD)
1206052006	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: 716372

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Surface Water Sampling March 2025 — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: William Laaker, Jay Siewert, Natalie Piparo, Sawyer Kovacs (EnSafe)
Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	NI	<-- Preservative Type (6)
MCM-T2-1HT	03/26/25	0840	G	N	WS			3	X	X	X	X		
MCM-T2-2HT	03/26/25	0856	G	N	WS			3	X	X	X	X		
MCM-T2-2HTS	03/26/25	0846	G	N	WS			3	X	X	X	X		
MCM-T2-3HT	03/26/25	0912	G	N	WS			3	X	X	X	X		
MCM-T2-3HTS	03/26/25	0904	G	N	WS			3	X	X	X	X		
MCM-T2-4HT	03/26/25	0931	G	N	WS			3	X	X	X	X		
MCM-T2-4HTS	03/26/25	0921	G	N	WS			3	X	X	X	X		
MCM-T2-4LT	03/26/25	1342	G	N	WS			3	X	X	X	X		
MCM-BG-1LT	03/26/25	1314	G	N	WS			3	X	X	X	X		
MCM-BG-2HT	03/26/25	0813	G	N	WS			3	X	X	X	X		

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe	3/27/25	1435		3/27/25	1435
2				2		
3				3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A)** and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Project # GPCC00105
GEL Quote #: GELP22-0819
QC Number [1]:
SD Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
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Collected By: William Laaker, Jay Siewert, Natalie Piparo, Sawyer Kovacs (EnSafe) — Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	NI	<-- Preservative Type (6)
MCM-CSURF-FD-01	03/26/25	—	FD	N	WS			3	X	X	X	X		
MCM-CSURF-FB-01	03/26/25	1626	FB	N	WQ			3	X	X	X	X		
MCM-CSURF-FB-			FB	N	WQ				X	X	X	X		
MCM-CSURF-EB-01	03/26/25	1632	EB	N	WQ			3	X	X	X	X		
MCM-CSURF-EB-			EB	N	WQ				X	X	X	X		

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/27/25	1435	[signature]	3/27/25	1435
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2025S1**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 716383 716372 | GEL PM: AP

Received By: CLM | Date Received at GEL: 3/27/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	19°	✓			
2	1°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: Reuem *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added: Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 3/28/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 13 April 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/26/2025

Calibrated By: William Laaker

Field Conditions: 76/53 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	884189
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:08	**Time Finish**	07:17		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.02	13.74	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,691.80	13.68	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	13.67	± 0.1	GWMP
pH (SU)	7.00	7.04	13.57	± 0.1	GWMP
pH (SU)	10.00	10.10	13.40	± 0.1	GWMP
ORP (mV)	228.0	236.30	13.45	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.08		
	10.00	10.32		

Calibration Check					
Time Start	17:05	**Time Finish**	17:12		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,392.30	26.31	± 10% of standard	EPA 2023
pH (SU)	4.00	4.22	26.26	± 0.1	GWMP
pH (SU)	7.00	7.08	27.48	± 0.1	GWMP
pH (SU)	10.00	9.84	28.38	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	9.86		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 3/26/2025 8:09:57 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: BG-2HT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 884189

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
3/26/2025 8:09 AM	00:00	7.56 pH	15.67 °C	37,357 µS/cm	8.42 mg/L	14.50 NTU	207.5 mV		23.75 PSU
3/26/2025 8:10 AM	01:00	7.61 pH	16.69 °C	36,579 µS/cm	8.27 mg/L		174.7 mV		23.25 PSU
3/26/2025 8:11 AM	02:00	7.63 pH	17.33 °C	36,006 µS/cm	8.08 mg/L	14.50 NTU	141.2 mV		22.88 PSU

Samples

Sample ID:	Description:
BG-2HT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 8:39:43 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-1HT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 884189

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
3/26/2025 8:39 AM	00:00	7.14 pH	21.63 °C	26,074 µS/cm	6.31 mg/L	9.66 NTU	79.0 mV		16.13 PSU
3/26/2025 8:40 AM	01:00	7.45 pH	20.70 °C	26,558 µS/cm	6.18 mg/L		56.9 mV		16.45 PSU
3/26/2025 8:41 AM	02:00	7.50 pH	20.45 °C	26,788 µS/cm	6.14 mg/L	9.66 NTU	51.5 mV		16.60 PSU

Samples

Sample ID:	Description:
T2-1HT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 8:44:56 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 884189

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
3/26/2025 8:44 AM	00:00	7.50 pH	19.55 °C	26,664 µS/cm	6.31 mg/L	11.80 NTU	69.4 mV		16.50 PSU
3/26/2025 8:45 AM	01:00	7.50 pH	19.26 °C	26,886 µS/cm	6.21 mg/L		53.5 mV		16.64 PSU
3/26/2025 8:46 AM	02:00	7.49 pH	19.15 °C	26,914 µS/cm	6.15 mg/L	11.80 NTU	45.6 mV		16.66 PSU

Samples

Sample ID:	Description:
T2-2HTS	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 8:53:14 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2025 8:53 AM	00:00	7.46 pH	18.88 °C	27,057 µS/cm	6.12 mg/L	5.68 NTU	62.9 mV		16.75 PSU	150.00 ml/min
3/26/2025 8:54 AM	01:00	7.45 pH	18.54 °C	27,326 µS/cm	6.09 mg/L		63.1 mV		16.93 PSU	150.00 ml/min
3/26/2025 8:55 AM	02:00	7.44 pH	18.54 °C	27,379 µS/cm	6.05 mg/L	5.68 NTU	60.2 mV		16.96 PSU	150.00 ml/min

Samples

Sample ID:	Description:
T2-2HT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 9:03:38 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 884189

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
3/26/2025 9:03 AM	00:00	7.46 pH	19.48 °C	27,161 µS/cm	6.65 mg/L	4.39 NTU	64.4 mV		16.84 PSU
3/26/2025 9:04 AM	01:00	7.45 pH	19.21 °C	27,487 µS/cm	6.43 mg/L		49.4 mV		17.05 PSU
3/26/2025 9:05 AM	02:00	7.45 pH	19.10 °C	27,481 µS/cm	6.35 mg/L	4.39 NTU	41.6 mV		17.05 PSU

Samples

Sample ID:	Description:
T2-3HTS	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 9:09:08 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2025 9:09 AM	00:00	7.45 pH	19.16 °C	28,434 µS/cm	6.73 mg/L	5.96 NTU	54.7 mV		17.70 PSU	150.00 ml/min
3/26/2025 9:10 AM	01:00	7.46 pH	19.00 °C	28,819 µS/cm	6.10 mg/L		41.1 mV		17.95 PSU	150.00 ml/min
3/26/2025 9:11 AM	02:00	7.46 pH	18.92 °C	28,784 µS/cm	6.06 mg/L	5.96 NTU	34.9 mV		17.93 PSU	150.00 ml/min

Samples

Sample ID:	Description:
T2-3HT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 9:21:27 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 884189

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
3/26/2025 9:21 AM	00:00	7.50 pH	20.96 °C	26,392 µS/cm	6.71 mg/L	5.81 NTU	64.1 mV		16.34 PSU
3/26/2025 9:22 AM	01:00	7.48 pH	20.40 °C	26,873 µS/cm	6.64 mg/L		62.5 mV		16.66 PSU
3/26/2025 9:23 AM	02:00	7.47 pH	20.67 °C	26,918 µS/cm	6.56 mg/L	5.81 NTU	58.7 mV		16.69 PSU

Samples

Sample ID:	Description:
T2-4HTS	Metals, Inorganics, TDS, Alkalinity
FD-01	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 9:28:39 AM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2025 9:28 AM	00:00	7.50 pH	21.76 °C	26,053 µS/cm	5.98 mg/L	7.51 NTU	55.4 mV		16.12 PSU	150.00 ml/min
3/26/2025 9:29 AM	01:00	7.48 pH	20.79 °C	26,539 µS/cm	5.94 mg/L		42.0 mV		16.44 PSU	150.00 ml/min
3/26/2025 9:30 AM	02:00	7.47 pH	20.16 °C	26,839 µS/cm	6.01 mg/L	7.51 NTU	36.0 mV		16.63 PSU	150.00 ml/min

Samples

Sample ID:	Description:
T2-4HT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 1:11:52 PM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: BG-1LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2025 1:11 PM	00:00	7.55 pH	27.12 °C	25,129 µS/cm	6.04 mg/L	7.65 NTU	19.8 mV		15.54 PSU	150.00 ml/min
3/26/2025 1:12 PM	01:00	7.56 pH	24.26 °C	26,021 µS/cm	6.53 mg/L		17.1 mV		16.13 PSU	150.00 ml/min
3/26/2025 1:13 PM	02:00	7.56 pH	23.21 °C	26,654 µS/cm	6.61 mg/L	7.65 NTU	15.2 mV		16.55 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BG-1LT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2025 1:39:01 PM
Project: March 2025 McManus Surface
Operator Name: William Laaker

Location Name: T2-4LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2025 1:39 PM	00:00	7.51 pH	29.33 °C	18,212 µS/cm	4.95 mg/L	9.32 NTU	-5.6 mV		10.94 PSU	150.00 ml/min
3/26/2025 1:40 PM	01:00	7.46 pH	25.76 °C	19,325 µS/cm	5.43 mg/L		-10.5 mV		11.66 PSU	150.00 ml/min
3/26/2025 1:41 PM	02:00	7.42 pH	24.19 °C	19,902 µS/cm	5.50 mg/L	9.32 NTU	-21.8 mV		12.03 PSU	150.00 ml/min

Samples

Sample ID:	Description:
T2-4LT	Metals, Inorganics, TDS, Alkalinity

Created using VuSitu from In-Situ, Inc.

APPENDIX D

STATISTICAL ANALYSES

ENSAFE
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GROUNDWATER STATS CONSULTING

February 28, 2025

Resolute Environmental & Water Resources Consulting
Attn: Mr. Stephen Wilson
1003 Weatherstone Parkway, Ste. 320
Woodstock, GA 30188

Re: Plant McManus Ash Pond (AP)
Statistical Analysis – September 2024 Sample Event

Dear Mr. Wilson,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the September 2024 sample event for Georgia Power Company's Plant McManus Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules (EPD) for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

The groundwater monitoring well network consists of the following:

- **Upgradient Wells:** MCM-01, MCM-02, MCM-11, MCM-15, MCM-16, MCM-18, MCM-19, and MCM-20
- **Downgradient Wells:** MCM-04, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17
- **Assessment Well:** DPZ-2

Sampling began in 2016 for the majority of wells. Upgradient wells MCM-18, MCM-19, and MCM-20, however, were installed late in 2019. Assessment well DPZ-2 is evaluated with confidence intervals for Appendix IV constituents which requires a minimum of four samples. A minimum of 8 samples has been collected at each upgradient and downgradient well and data from these wells are included in this analysis.

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. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data was then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis.

Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The statistical analysis provided in this report was performed according to the background screening conducted by MacStat Consulting in April 2019. Interwell prediction limits, combined with a 1-of-2 resample plan, for Appendix III parameters were recommended as the primary statistical method.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 list of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a replacement of the most recent reporting limit is used for non-detect data. However, the reporting limits for some constituents during recent events were at or above the MCL or CCR-Rule Specified Levels. In order maintain conservative limits, the following historic reporting limits were substituted:

- Chromium: 0.01 mg/L
- Cobalt: 0.0025 mg/L
- Fluoride: 0.1 mg/L
- Lead: 0.005 mg/L
- Lithium: 0.025 mg/L
- Molybdenum: 0.01 mg/L

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of spatial variation in groundwater quality. In other cases, concentrations exist higher in downgradient wells relative to observations reported upgradient of the facility, as seen in the majority of the Appendix III parameters. This may be reflective of spatial variation or a result of practices at the facility. A separate study and hydrogeological investigation would be required to fully understand the geochemical conditions and expected groundwater quality for the region. That study and assessment is beyond the scope of services provided by Groundwater Stats Consulting.

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.

Based on the 2019 screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the 2019 screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each detected Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling non-detects (USEPA, 2009):

- 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 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 – September 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No additional outliers were flagged at this time. 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).

Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 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: MCM-12 and MCM-17
- pH: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

Trend Tests

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 well data 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. Trends identified in upgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of trend

test results follows this letter including a list of statistically significant trends. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Boron: MCM-18 (upgradient)
- pH: MCM-15, MCM-20 (both upgradient), MCM-14, and MCM-17

Statistical Analysis of Appendix IV Parameters – September 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. Any downgradient and assessment well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional individual observations were flagged as outliers during this analysis. As a result of the previous background screening, the following non-detect values were flagged at that time due to elevated reporting limits: 0.025 mg/L for lead in upgradient well MCM-19; and 0.1 mg/L, 0.15 mg/L and 0.3 mg/L for lithium in upgradient well MCM-18. Additionally, elevated concentrations for fluoride in downgradient well MCM-06 and upgradient well MCM-20, and for cadmium in upgradient well MCM-19 were flagged as outliers. This step results in construction of statistical limits that are conservative from a regulatory perspective.

During previous analyses, elevated historic concentrations for combined radium 226 + 228 in upgradient well MCM-20 and for selenium at upgradient wells MCM-18, MCM-19, and MCM-20 were truncated from the record in order to maintain more conservative (i.e., lower) limits and construct statistical limits that are more representative of present-day groundwater quality conditions. Both a summary of all flagged outliers (Figure C) and a list of any truncated records follow this report.

<u>Interwell Upper Tolerance Limits</u>

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2024 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. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

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 and assessment well (Figure H).

The Sanitas software was used to calculate the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals 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 appropriate 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 achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Note the concentrations for arsenic and lithium in downgradient well MCM-06 have statistically significantly decreased since November 2019 and recent concentrations appear to have stabilized. Therefore, confidence intervals for arsenic and lithium at MCM-06 were constructed using only more recent and stable data (USEPA Unified Guidance, 2009, Chapter 7). As a result of the small sample size, non-parametric confidence intervals were constructed for these well/constituent pairs and a list of any well/constituent pairs using a truncated portion of their record follows this report.

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:

- Arsenic: MCM-06
- Lithium: DPZ-02

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.

Note that closure measures have been implemented; therefore, the trend test was used to evaluate all available data beyond November 21, 2019 to the present. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Arsenic: MCM-11 (upgradient)

Decreasing:

- Arsenic: MCM-06

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Plant McManus Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina L. Rayner
Senior Statistician

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Antimony (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12, MCM-17

Beryllium (mg/L)
DPZ-02, MCM-06

Cadmium (mg/L)
DPZ-02, MCM-05, MCM-06, MCM-12, MCM-14, MCM-17

Chromium (mg/L)
DPZ-02

Cobalt (mg/L)
DPZ-02

Lead (mg/L)
DPZ-02, MCM-04

Mercury (mg/L)
DPZ-02, MCM-12

Molybdenum (mg/L)
MCM-14

Thallium (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12, MCM-14, MCM-17

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Date Ranges

Date: 11/25/2024 7:45 PM

Plant McManus Client: Southern Company Data: McManus AP

Arsenic (mg/L)
- MCM-06 overall:3/2/2023-9/12/2024

Combined Radium 226 + 228 (pCi/L)
- MCM-20 overall:10/13/2020-9/11/2024

Lithium (mg/L)
- MCM-06 overall:9/20/2022-9/12/2024

Selenium (mg/L)
- MCM-18 overall:3/26/2020-9/11/2024
- MCM-19 overall:3/26/2020-9/11/2024
- MCM-20 overall:3/26/2020-9/11/2024

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2024	0.131	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/11/2024	0.463	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/12/2024	0.745	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2024	0.888	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/11/2024	0.415	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2024	9.06	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	9/11/2024	78.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	9/12/2024	134	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	9/11/2024	72.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/10/2024	4.67	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/11/2024	41.3	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/10/2024	57.2	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2024	100	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/11/2024	1800	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/12/2024	3240	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2024	2440	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/10/2024	297	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/11/2024	1320	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/10/2024	3080	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2024	0.0749J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/11/2024	0.654	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/12/2024	0.392J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2024	0.692	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/10/2024	1.67	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/11/2024	0.164J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/10/2024	0.986J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2024	5.1	No	162	n/a	n/a	0	n/a	n/a	0.0001498	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2024	103	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/11/2024	148	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/12/2024	271	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2024	296	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/10/2024	0.462	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/11/2024	180	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/10/2024	323	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2024	316	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/11/2024	3020	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/12/2024	5340	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2024	4640	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/10/2024	1230	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/11/2024	2480	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/10/2024	5490	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.006044	66	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.007634	-55	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001347	38	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01214	39	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.001212	-12	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-16 (bg)	-0.004519	-81	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.01929	-34	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.008783	-14	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01907	-39	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.07198	-70	-92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.0169	69	92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-05	-0.01522	-35	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.00953	26	98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.03042	-76	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.05008	-85	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.009779	-27	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	-0.002819	-7	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-18 (bg)	0.05171	55	68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02771	-37	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:39 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	139	n/a	n/a	99.28	n/a	n/a	0.0008009	NP Inter(NDs)
Arsenic (mg/L)	0.032	157	n/a	n/a	18.47	n/a	n/a	0.0003181	NP Inter(normality)
Barium (mg/L)	0.22	155	n/a	n/a	0	n/a	n/a	0.0003525	NP Inter(normality)
Beryllium (mg/L)	0.021	154	n/a	n/a	30.52	n/a	n/a	0.0003711	NP Inter(normality)
Cadmium (mg/L)	0.0043	137	n/a	n/a	97.08	n/a	n/a	0.0008874	NP Inter(NDs)
Chromium (mg/L)	0.011	139	n/a	n/a	59.71	n/a	n/a	0.0008009	NP Inter(NDs)
Cobalt (mg/L)	0.036	154	n/a	n/a	76.62	n/a	n/a	0.0003711	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	145	n/a	n/a	0	n/a	n/a	0.0005887	NP Inter(normality)
Fluoride (mg/L)	3.98	158	n/a	n/a	49.37	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.005	154	n/a	n/a	88.31	n/a	n/a	0.0003711	NP Inter(NDs)
Lithium (mg/L)	0.0493	151	n/a	n/a	59.6	n/a	n/a	0.0004328	NP Inter(NDs)
Mercury (mg/L)	0.0007	138	n/a	n/a	97.83	n/a	n/a	0.0008431	NP Inter(NDs)
Molybdenum (mg/L)	0.01	138	n/a	n/a	89.86	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	0.0492	131	n/a	n/a	74.81	n/a	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	138	n/a	n/a	97.1	n/a	n/a	0.0008431	NP Inter(NDs)

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	19	0.002778	0.0006482	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.02342	0.01249	0.032	No	11	0.01795	0.006561	9.091	None	No	0.01	Param.
Arsenic (mg/L)	MCM-04	0.005821	0.002756	0.032	No	20	0.004564	0.003157	10	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01207	0.005141	0.032	No	36	0.01111	0.01052	8.333	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01738	0.01125	0.032	No	35	0.01432	0.007428	0	None	No	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	20	0.003712	0.001849	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.00215	0.032	No	21	0.003947	0.001793	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.00226	0.032	No	21	0.00388	0.001607	47.62	None	No	0.01	NP (normality)
Barium (mg/L)	DPZ-02	0.08305	0.04973	2	No	9	0.06639	0.01726	0	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.07053	0.0342	2	No	20	0.06315	0.06426	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03611	0.01224	2	No	21	0.04324	0.09482	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1217	0.05949	2	No	21	0.0906	0.05639	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1724	0.08945	2	No	20	0.1405	0.09107	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1177	0.08769	2	No	20	0.1027	0.02647	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05008	2	No	20	0.08021	0.05305	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.121	0.06841	2	No	20	0.09472	0.04633	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003689	0.0002002	0.021	No	20	0.0003795	0.0001605	40	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	21	0.0004788	0.00009733	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	20	0.0004386	0.0001502	85	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001299	0.0006575	0.021	No	20	0.001031	0.0006206	10	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	20	0.0004024	0.0001753	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	20	0.0003529	0.0001343	40	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	18	0.0009556	0.0001886	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0012	0.1	No	18	0.006131	0.004458	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	18	0.006502	0.004519	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0011	0.1	No	19	0.007639	0.004061	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0022	0.1	No	18	0.006161	0.003955	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-12	0.00659	0.005357	0.1	No	18	0.007132	0.002036	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	18	0.006265	0.004316	55.56	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01082	0.006253	0.1	No	18	0.009454	0.003531	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.006	0.0025	0.036	No	21	0.004193	0.002189	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-05	0.0025	0.0019	0.036	No	21	0.002365	0.0004997	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.0025	0.0009	0.036	No	21	0.002319	0.0005793	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0025	0.0011	0.036	No	20	0.00232	0.0005672	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.0025	0.0005	0.036	No	20	0.001502	0.001025	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.0025	0.0006	0.036	No	20	0.002405	0.0004249	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.0025	0.0007	0.036	No	20	0.002192	0.0007547	85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.879	6.152	34.9	No	9	8.016	1.93	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.087	2.936	34.9	No	20	4.155	2.126	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.183	1.644	34.9	No	21	2.756	1.976	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.546	3.098	34.9	No	20	4.822	3.037	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.866	5.865	34.9	No	21	7.366	2.72	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.222	2.273	34.9	No	20	2.748	0.8361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.903	3.654	34.9	No	21	5.278	2.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.706	3.716	34.9	No	21	5.211	2.71	0	None	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	9	0.1011	0.003333	88.89	None	No	0.002	NP (NDs)
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	21	0.1265	0.1096	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5215	0.2831	4	No	23	0.4023	0.2279	13.04	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3087	0.1066	4	No	21	0.2702	0.2439	38.1	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.54	0.1	4	No	22	0.3579	0.3214	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.323	1.052	4	No	21	1.154	0.3181	4.762	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	23	0.2074	0.1736	52.17	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8109	0.324	4	No	22	0.646	0.4902	27.27	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MCM-05	0.005	0.0002	0.015	No	21	0.004771	0.001047	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.005	0.00012	0.015	No	21	0.004768	0.001065	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.005	0.0002	0.015	No	20	0.004269	0.001785	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.005	0.00083	0.015	No	20	0.003815	0.002111	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.005	0.00008	0.015	No	20	0.004754	0.0011	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.005	0.00034	0.015	No	20	0.004284	0.001749	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MCM-04	0.025	0.0019	0.049	No	20	0.01578	0.0116	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.0219	0.049	No	21	0.05404	0.1185	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06066	0.03334	0.049	No	5	0.047	0.008153	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.04205	0.02032	0.049	No	22	0.03751	0.0321	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.0123	0.0104	0.049	No	20	0.01305	0.005279	15	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-14	0.0415	0.02322	0.049	No	22	0.03236	0.01703	9.091	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.0259	0.01691	0.049	No	20	0.02141	0.00791	5	None	No	0.01	Param.
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	18	0.0002283	0.0001202	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	18	0.0001912	0.00003724	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	19	0.0001979	0.000009177	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	18	0.0002261	0.0001108	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	18	0.0002256	0.0001084	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	18	0.0002244	0.0001037	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.01	0.000217	0.1	No	7	0.007209	0.004767	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.01	0.00015	0.1	No	18	0.009453	0.002322	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.01	0.00095	0.1	No	18	0.006988	0.004372	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.01	0.0013	0.1	No	19	0.00598	0.004372	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-07	0.01	0.000963	0.1	No	18	0.007509	0.004134	72.22	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.01	0.00055	0.1	No	18	0.007867	0.004106	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.01	0.00102	0.1	No	18	0.008419	0.00364	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00176	0.05	No	9	0.01987	0.01018	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	20	0.0044	0.001525	85	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	21	0.004481	0.001106	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	21	0.004476	0.001613	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.0025	0.05	No	20	0.004209	0.001232	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	20	0.003738	0.001602	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	20	0.004315	0.001341	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	20	0.004397	0.0018	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	19	0.001899	0.0004414	94.74	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0003784	-13	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	5	23	No	10	80	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0005749	11	23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	4	23	No	10	70	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0002044	-34	-45	No	16	12.5	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001483	9	45	No	16	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0005441	-14	-45	No	16	0	n/a	0.05	NP
Lithium (mg/L)	DPZ-02	-0.003635	-27	-27	No	11	9.091	n/a	0.05	NP
Lithium (mg/L)	MCM-01 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	23	No	10	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	23	No	10	70	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	37	No	14	57.14	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.0003351	19	45	No	16	6.25	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0.0002343	18	45	No	16	0	n/a	0.05	NP

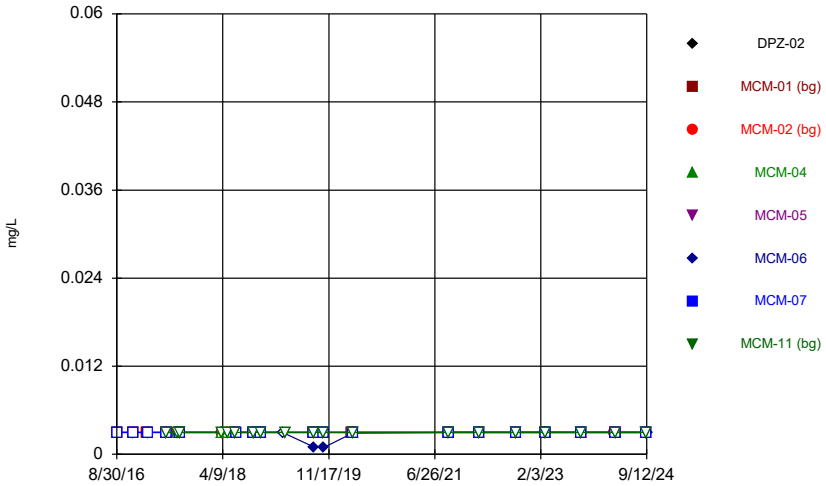
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FIGURE A.

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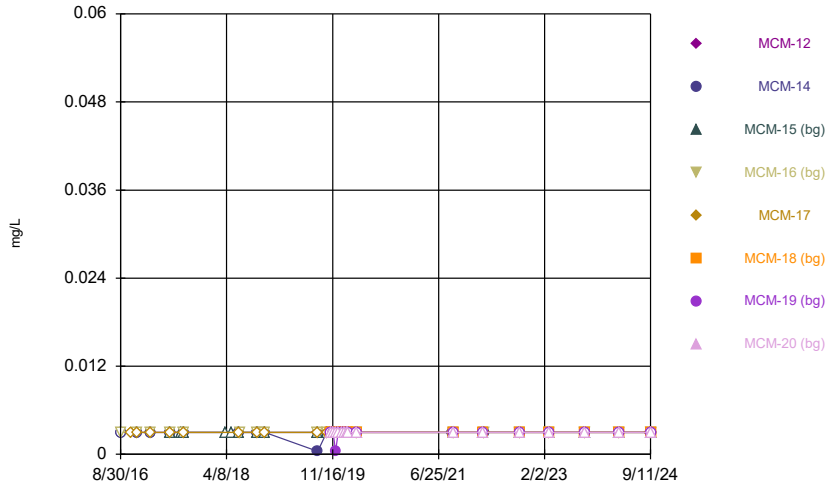
Time Series



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Plant McManus Client: Southern Company Data: McManus AP

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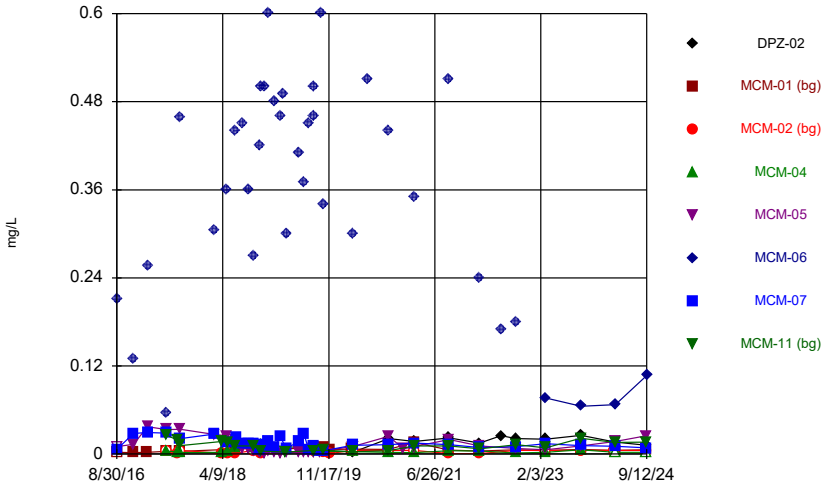
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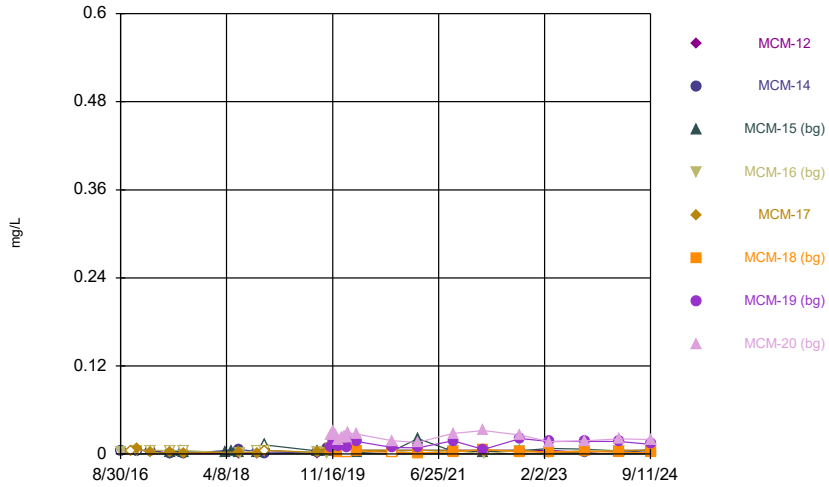
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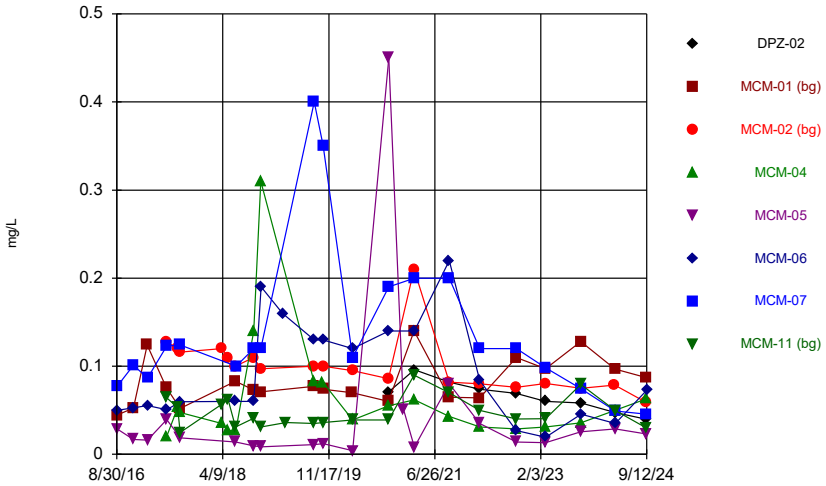
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Time Series

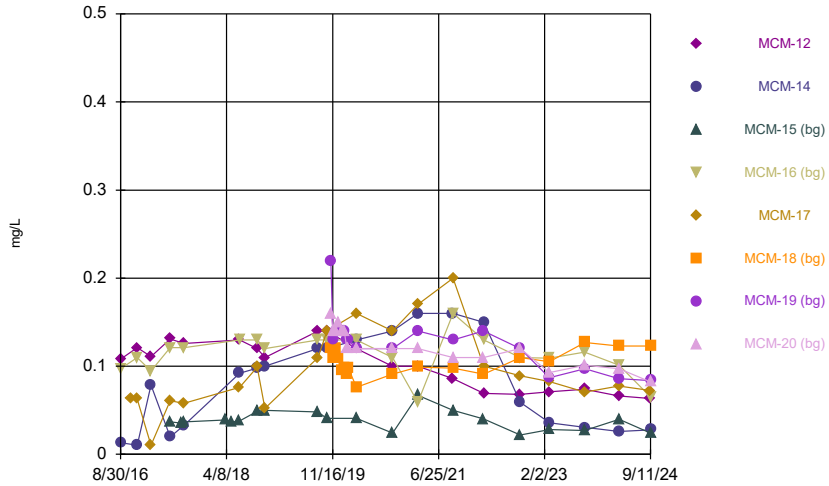


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Plant McManus Client: Southern Company Data: McManus AP

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Time Series

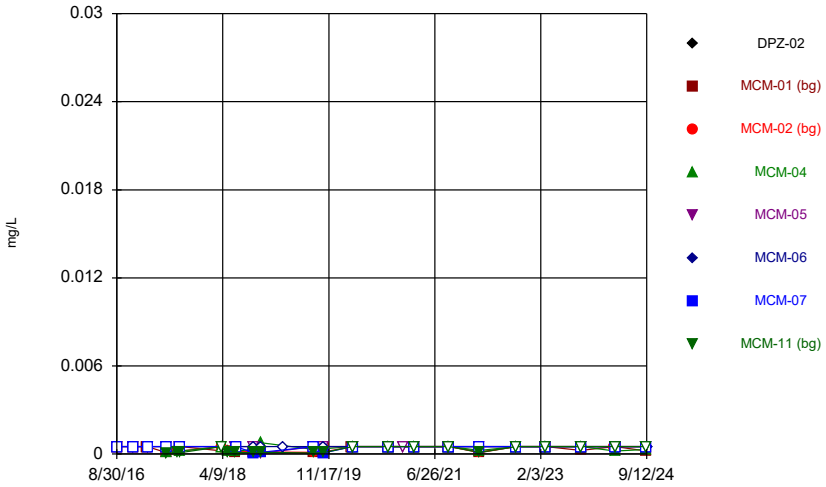


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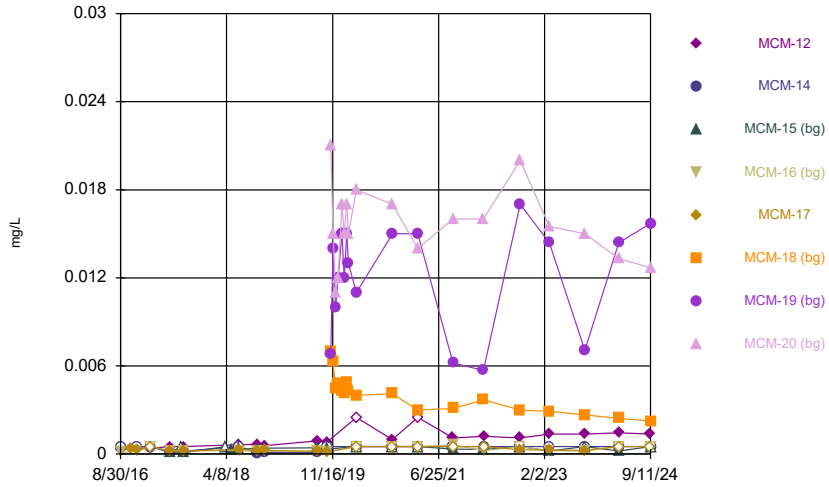


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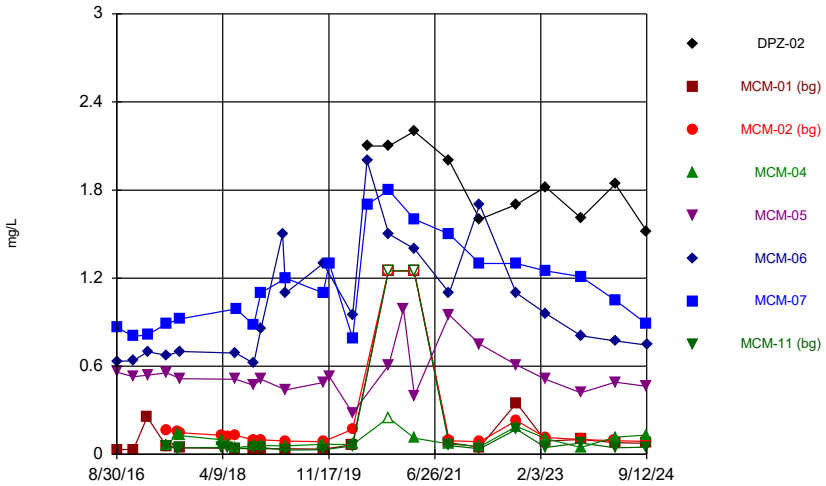


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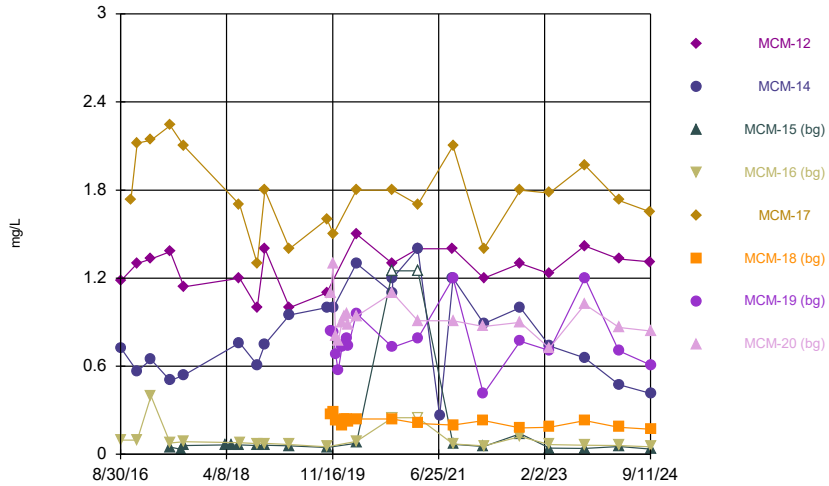
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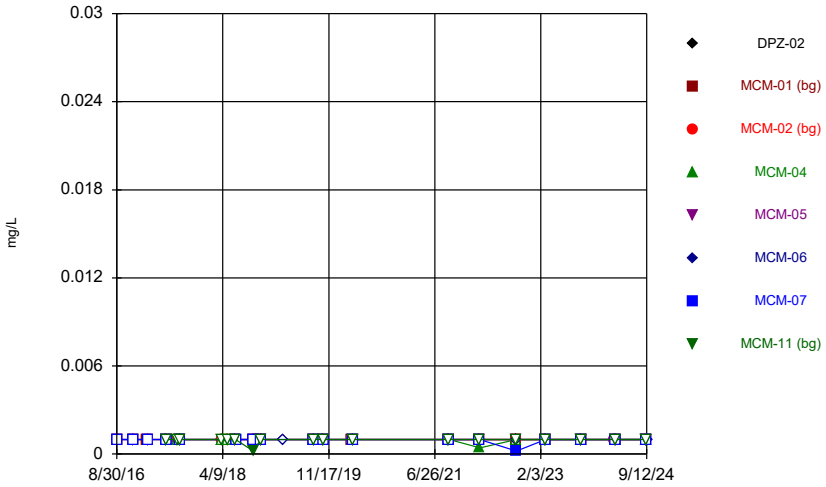
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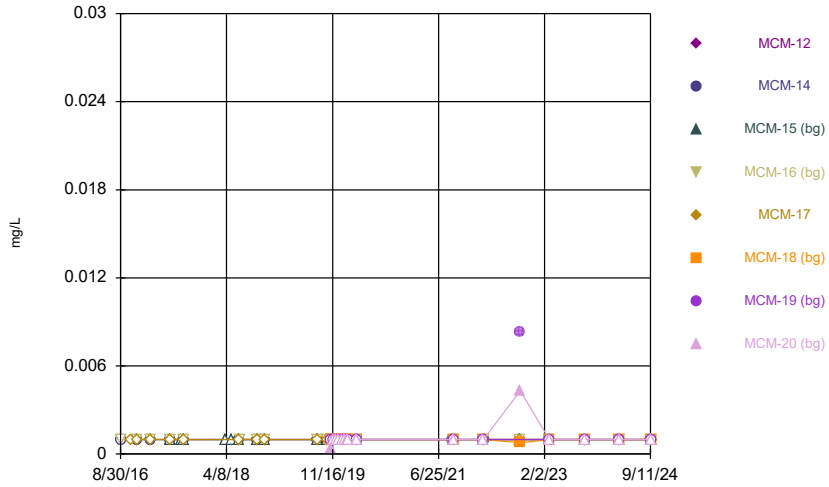
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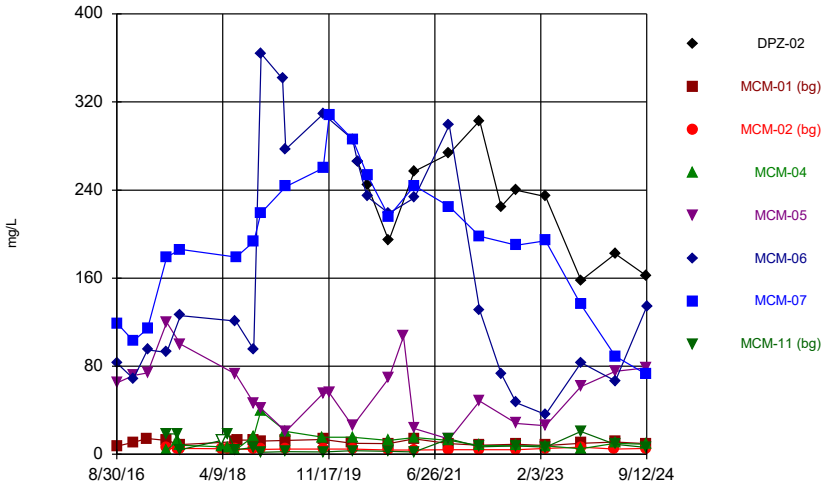
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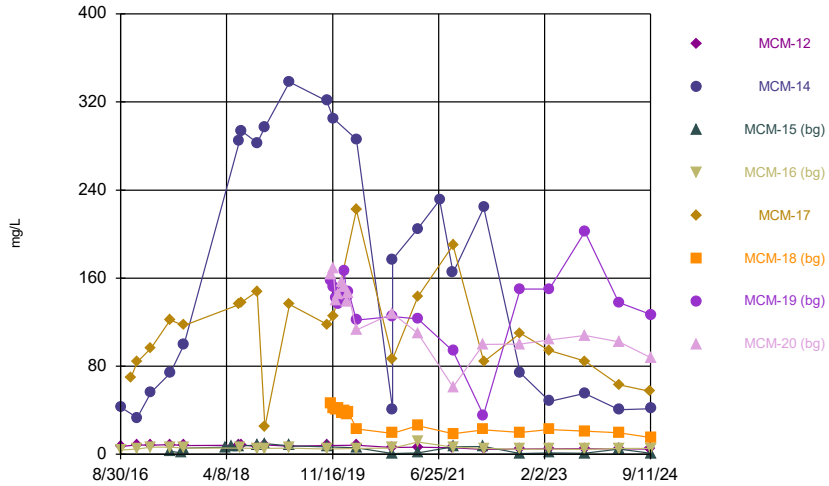
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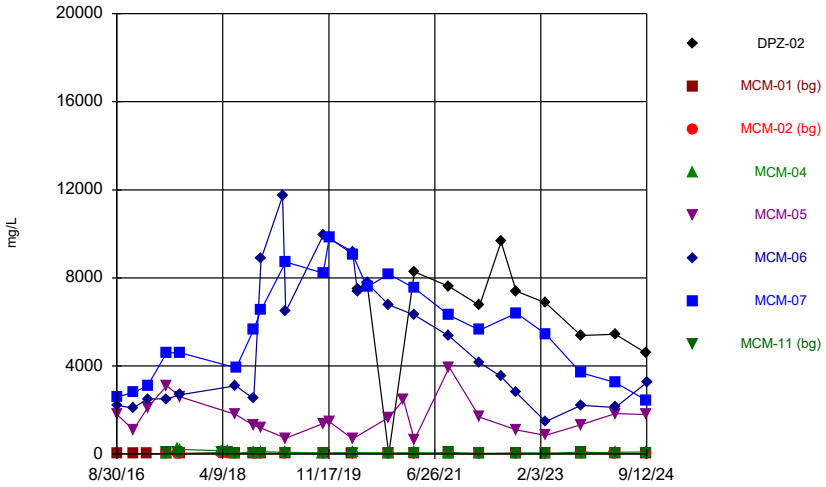
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Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

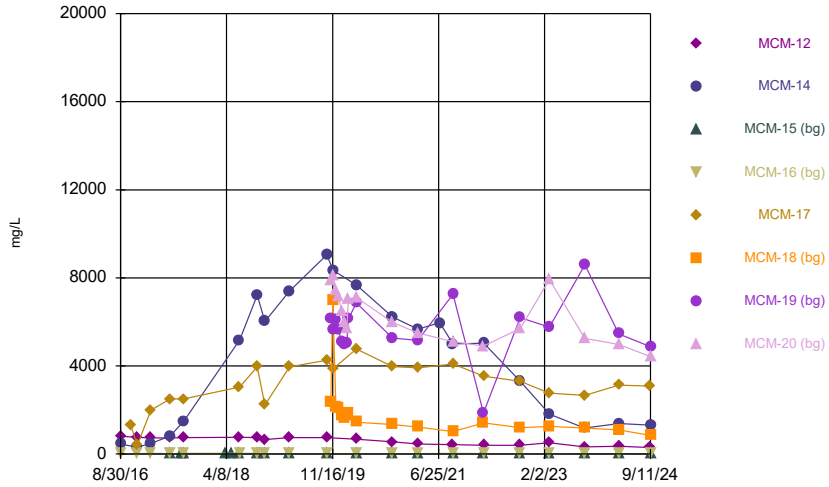
Time Series



Constituent: Chloride Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

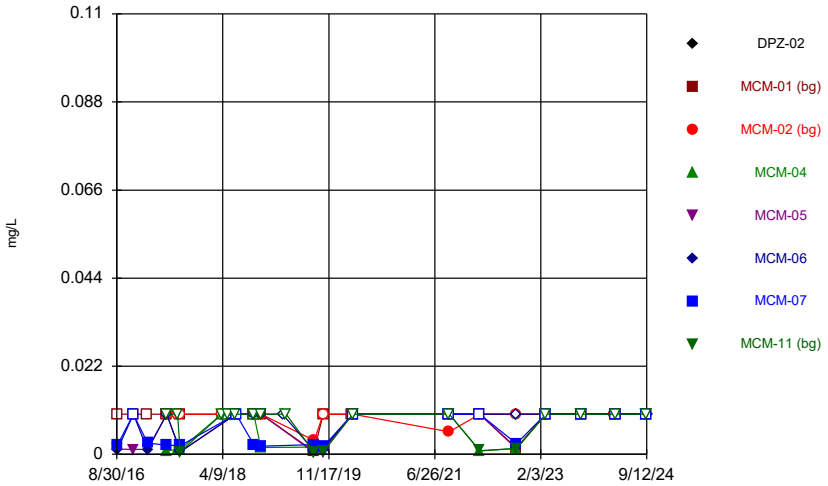
Time Series



Constituent: Chloride Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

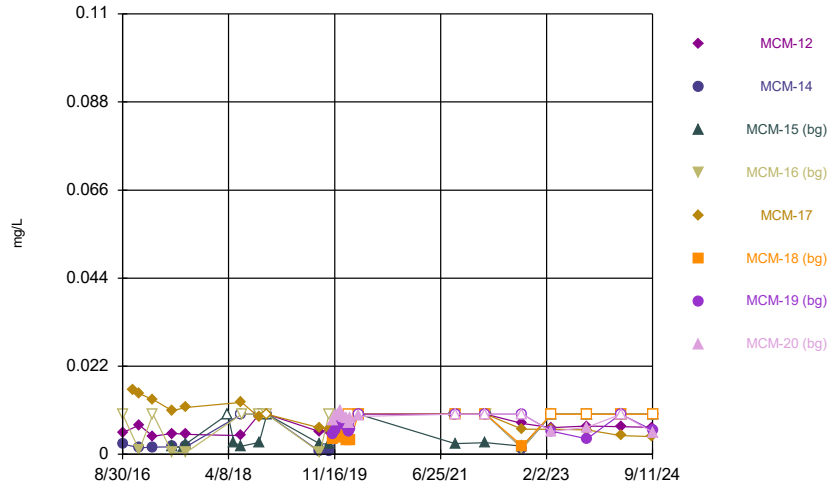
Time Series



Constituent: Chromium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

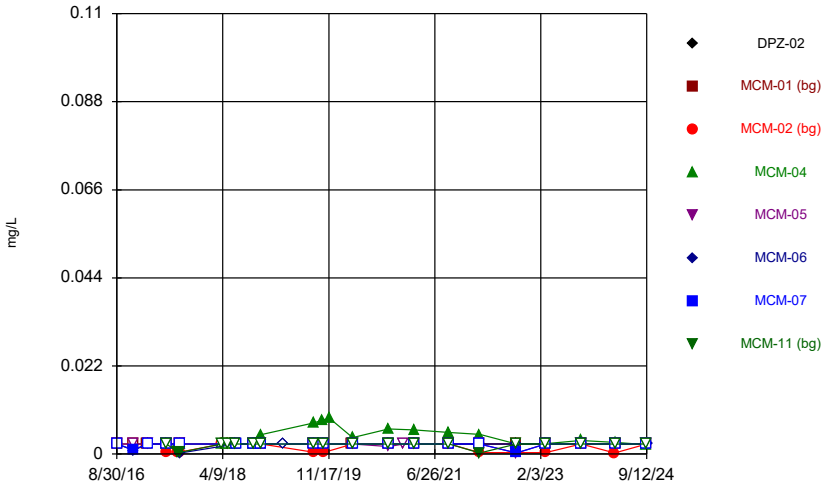
Time Series



Constituent: Chromium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

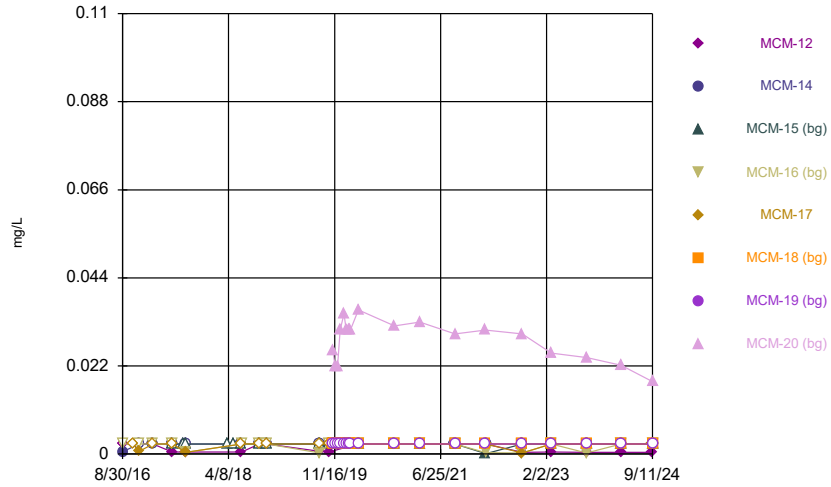
Time Series



Constituent: Cobalt Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

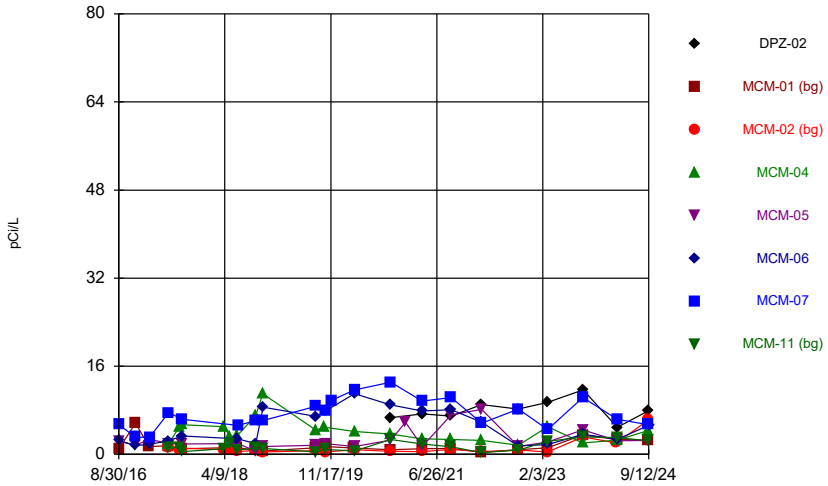
Time Series



Constituent: Cobalt Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

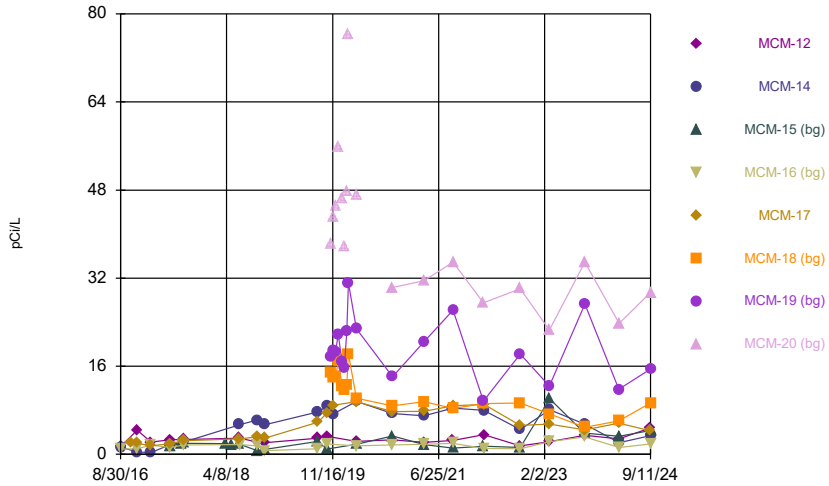


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



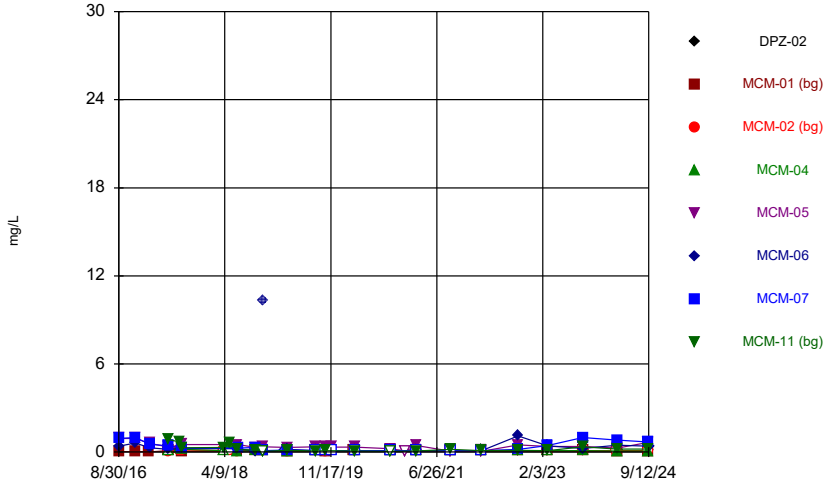
Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



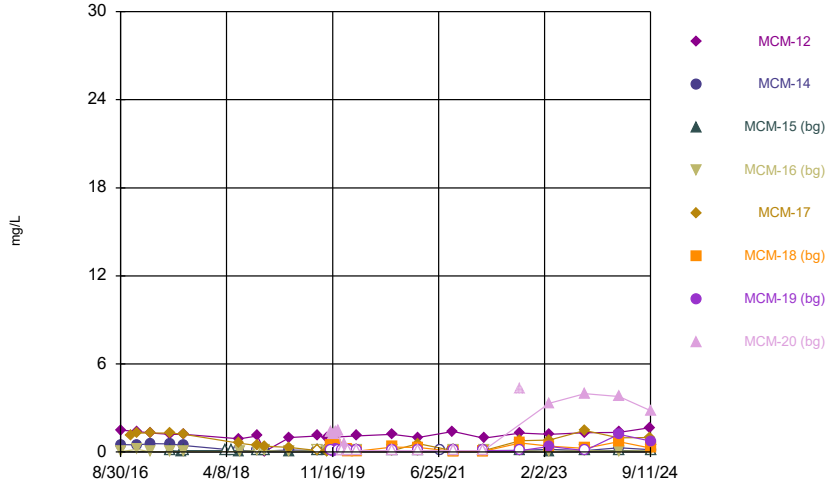
Constituent: Fluoride Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

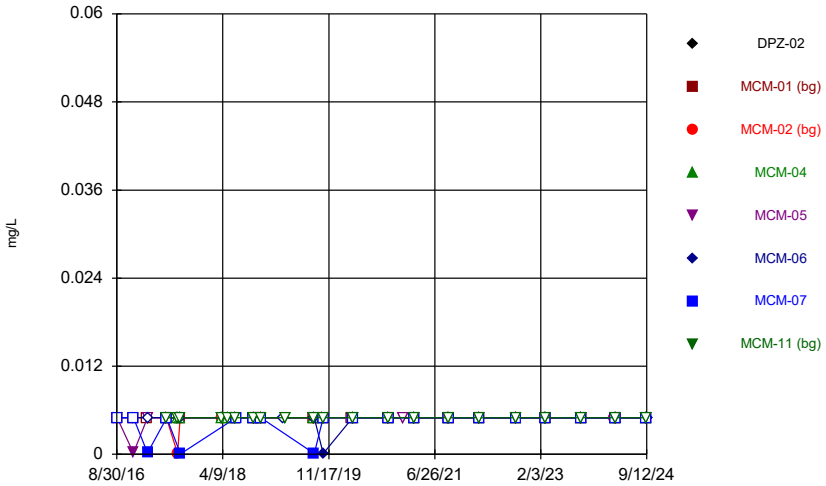


Constituent: Fluoride Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

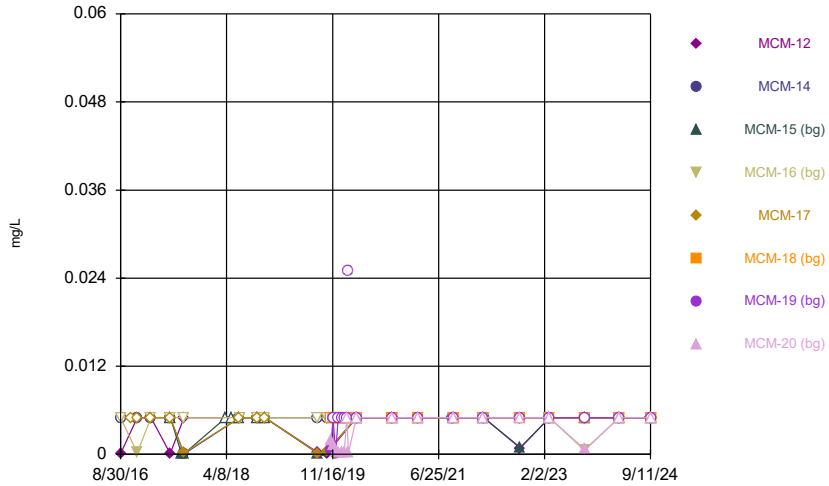
Time Series



Constituent: Lead Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

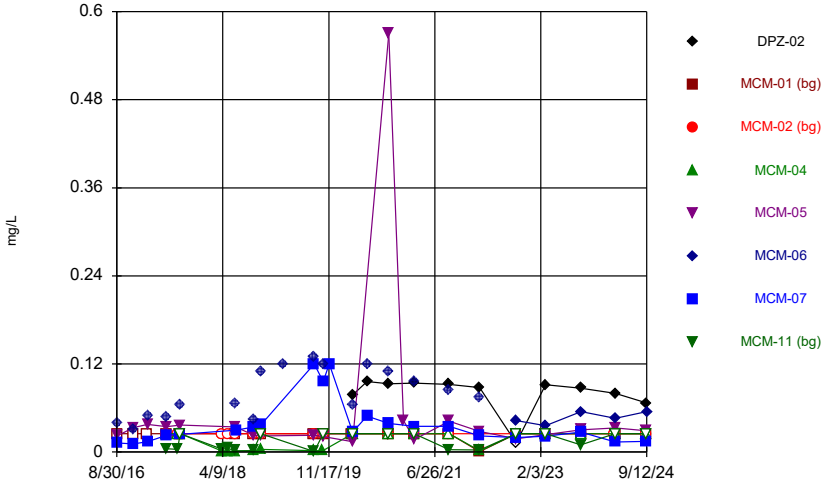
Time Series



Constituent: Lead Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

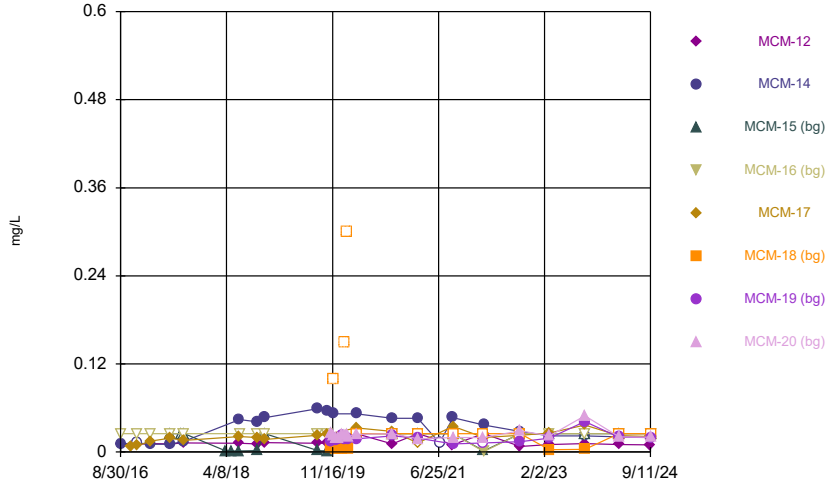
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

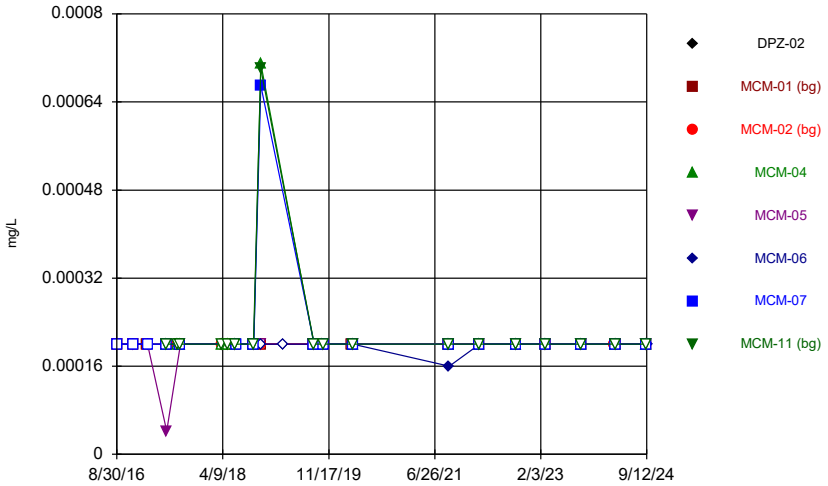
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

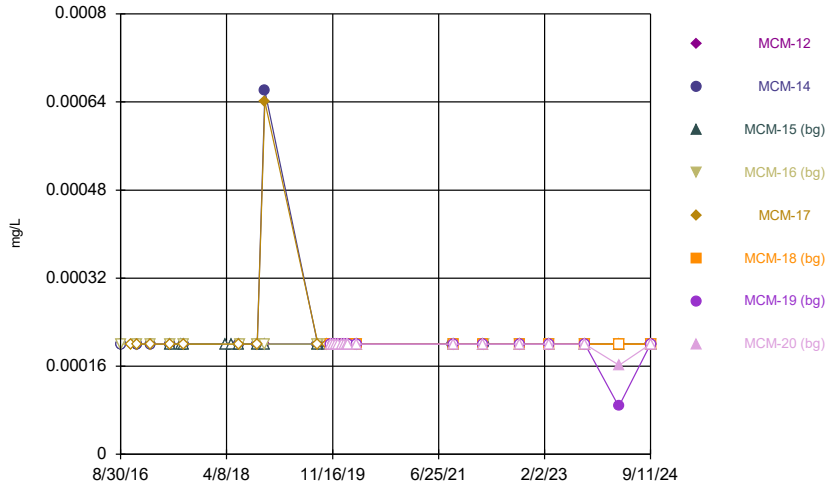
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

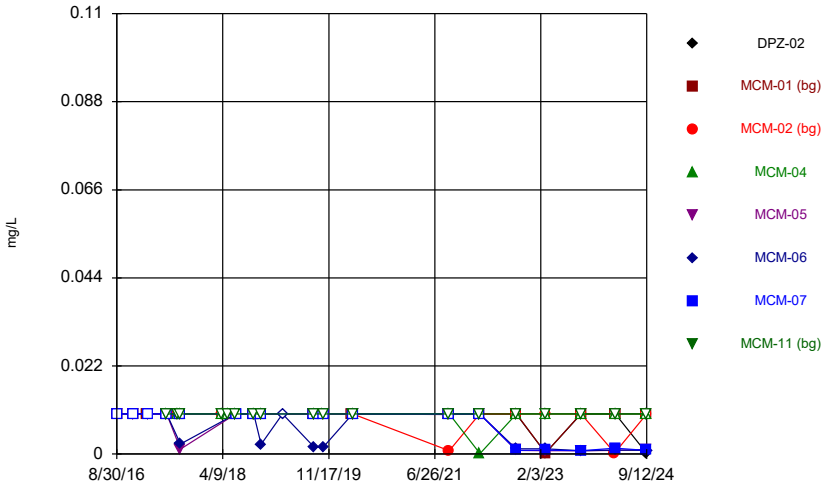
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

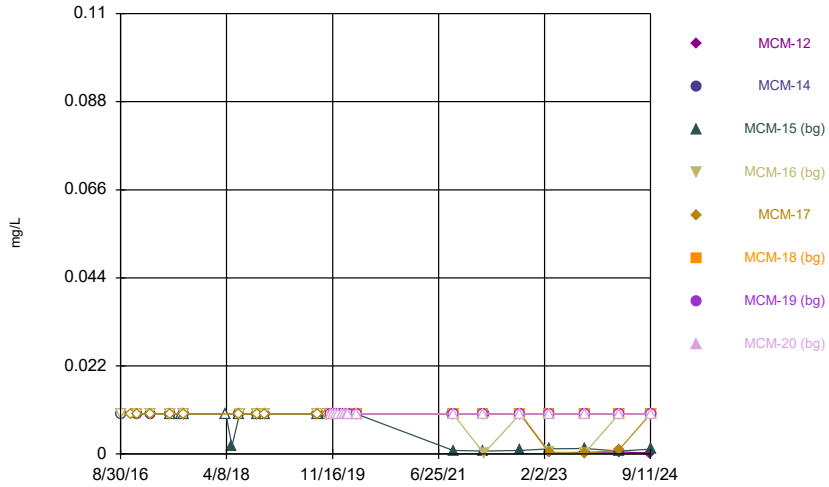
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

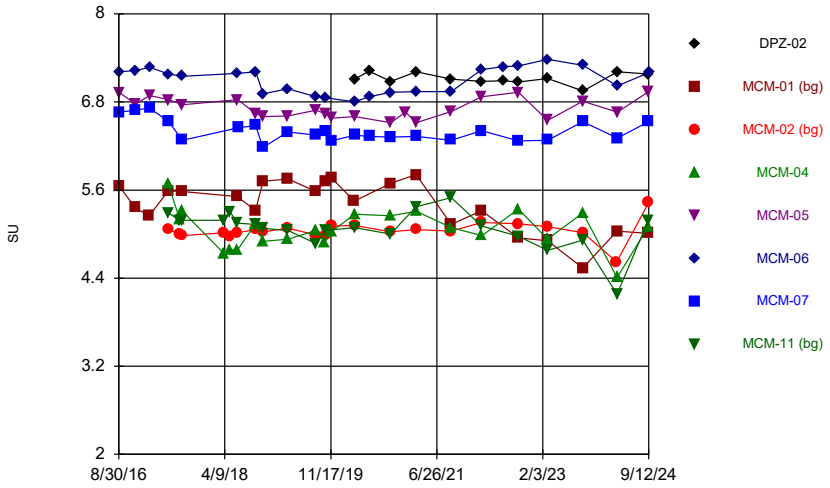
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

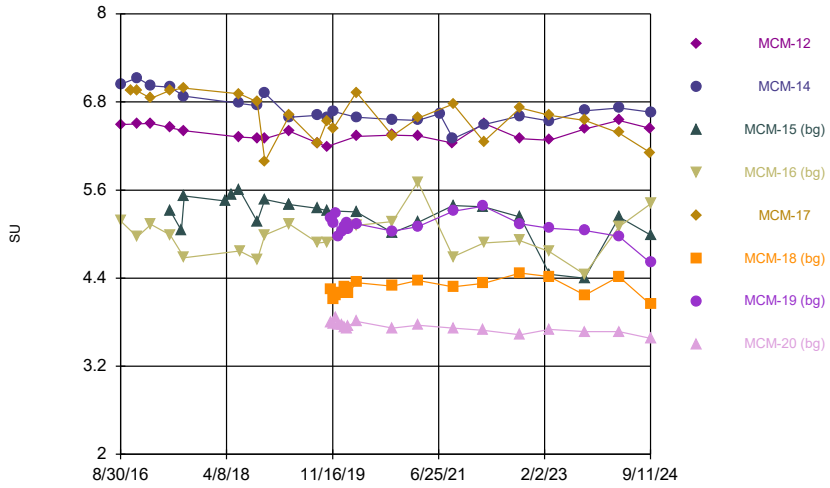


Constituent: pH, Field Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

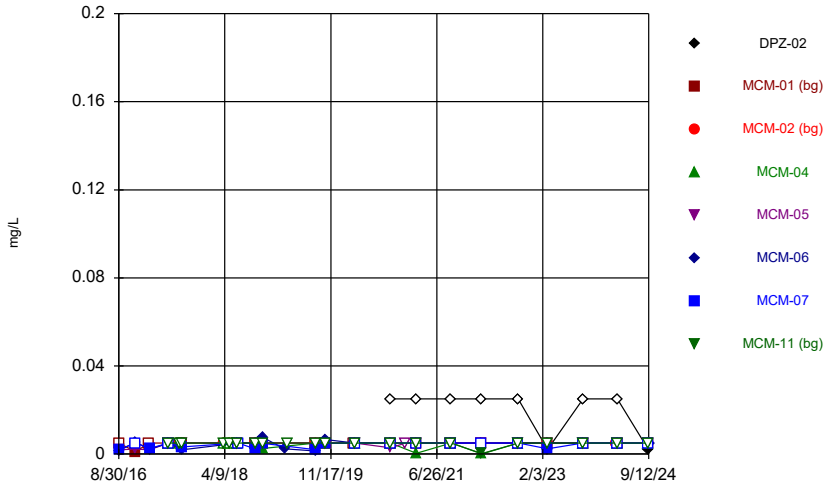


Constituent: pH, Field Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

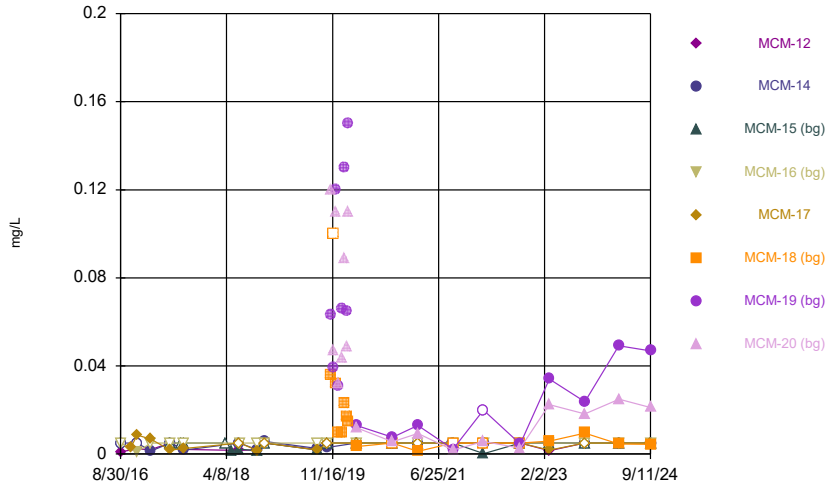


Constituent: Selenium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

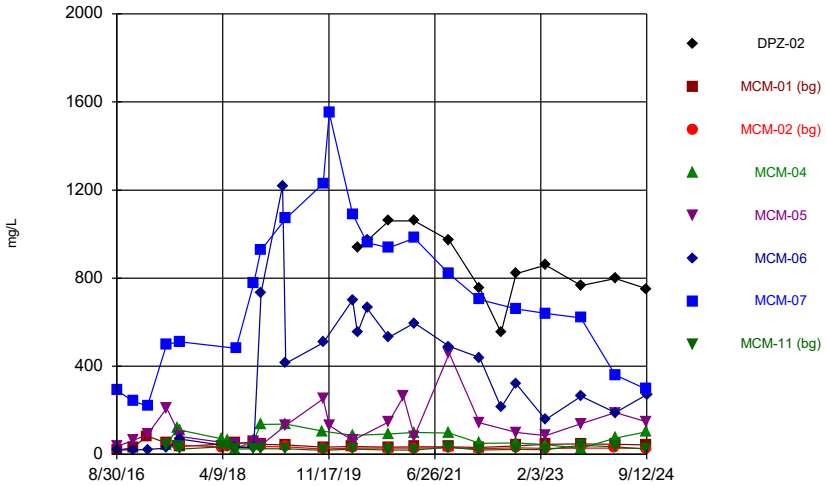


Constituent: Selenium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



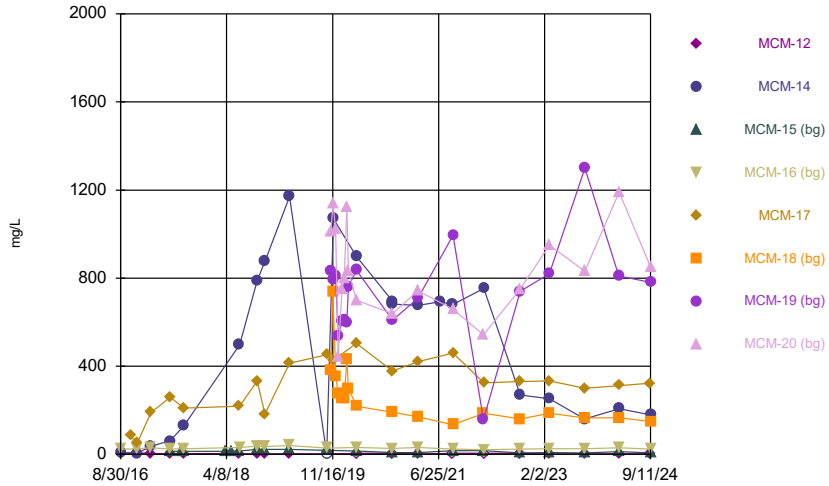
Constituent: Sulfate Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



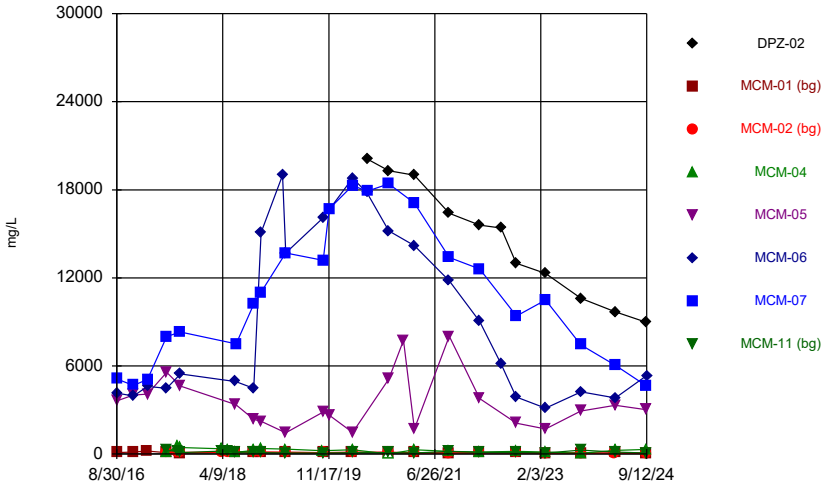
Constituent: Sulfate Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



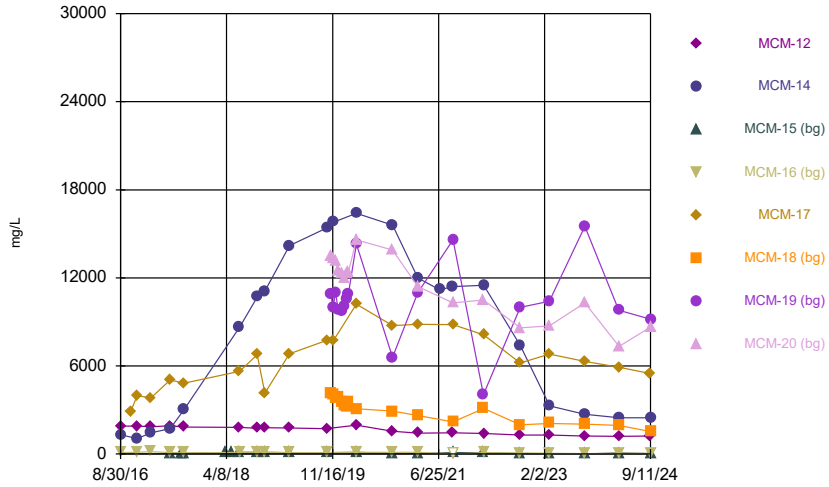
Constituent: TDS Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

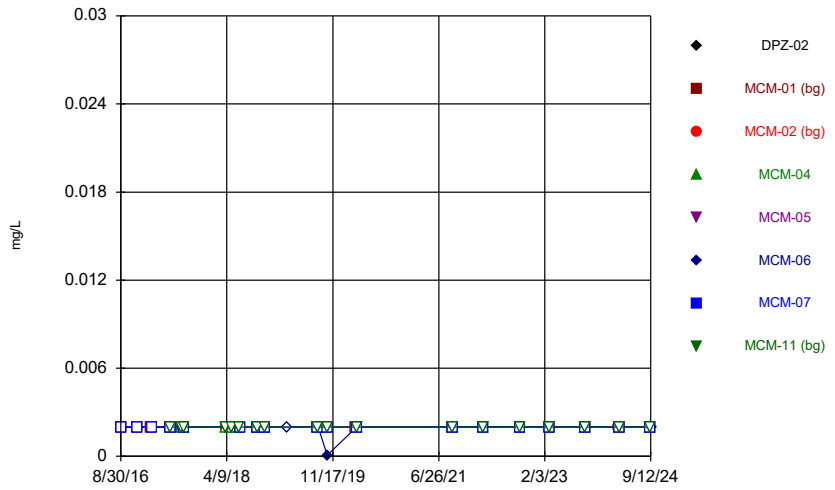


Constituent: TDS Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

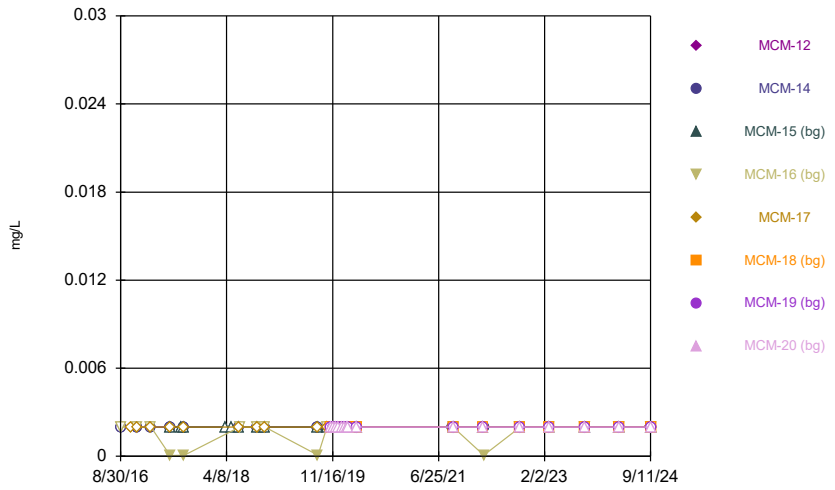


Constituent: Thallium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.003						
8/31/2016					<0.003	<0.003	<0.003	
11/30/2016		<0.003			<0.003	<0.003	<0.003	
2/15/2017		<0.003						
2/16/2017					<0.003	<0.003	<0.003	
5/31/2017			<0.003					<0.003
6/1/2017		<0.003		<0.003				
6/2/2017					<0.003	<0.003	<0.003	
8/2/2017			<0.003	<0.003				<0.003
8/15/2017								<0.003
8/16/2017		<0.003	<0.003					
8/17/2017				<0.003	<0.003	<0.003	<0.003	
4/4/2018				<0.003				<0.003
4/5/2018			<0.003					
5/8/2018				<0.003				<0.003
5/9/2018			<0.003					
6/19/2018		<0.003	<0.003					<0.003
6/20/2018				<0.003	<0.003	<0.003		
6/21/2018							<0.003	
9/25/2018								<0.003
9/26/2018		<0.003	<0.003					
9/27/2018				<0.003	<0.003	<0.003	<0.003	
11/6/2018				<0.003			<0.003	<0.003
11/7/2018		<0.003	<0.003		<0.003	<0.003		
3/6/2019						<0.003		
3/25/2019								<0.003
8/27/2019		<0.003		<0.003				
8/28/2019			<0.003		<0.003	0.00098 (J)	<0.003	<0.003
10/15/2019				<0.003				
10/16/2019		<0.003	<0.003		<0.003			<0.003
10/17/2019						0.0009 (J)	<0.003	
3/26/2020		<0.003						
3/27/2020			<0.003					<0.003
3/28/2020				<0.003	<0.003	0.0029 (J)	<0.003	
9/14/2021	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022	<0.003				<0.003	<0.003		
3/2/2022		<0.003	<0.003				<0.003	<0.003
3/3/2022				<0.003				
9/20/2022	<0.003					<0.003		
9/21/2022		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
3/1/2023		<0.003	<0.003	<0.003				<0.003
3/2/2023	<0.003				<0.003	<0.003	<0.003	
9/12/2023		<0.003			<0.003			
9/13/2023				<0.003			<0.003	<0.003
9/14/2023	<0.003		<0.003			<0.003		
3/19/2024			<0.003					
3/20/2024		<0.003		<0.003				<0.003
3/21/2024	<0.003				<0.003	<0.003	<0.003	
9/10/2024				<0.003				<0.003
9/11/2024	<0.003	<0.003	<0.003		<0.003		<0.003	
9/12/2024						<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.003	<0.003		<0.003				
10/25/2016					<0.003			
11/30/2016	<0.003	<0.003		<0.003	<0.003			
2/15/2017	<0.003	<0.003		<0.003	<0.003			
5/31/2017	<0.003	<0.003			<0.003			
6/1/2017				<0.003				
6/2/2017			<0.003					
8/2/2017			<0.003					
8/15/2017	<0.003				<0.003			
8/16/2017		<0.003						
8/17/2017			<0.003	<0.003				
4/4/2018			<0.003					
5/8/2018			<0.003					
6/19/2018	<0.003	<0.003	<0.003		<0.003			
6/20/2018				<0.003				
9/25/2018	<0.003	<0.003						
9/26/2018			<0.003	<0.003	<0.003			
11/6/2018		<0.003			<0.003			
11/7/2018	<0.003		<0.003	<0.003				
8/26/2019		0.0004 (J)						
8/27/2019	<0.003		<0.003	<0.003	<0.003			
10/15/2019	<0.003	<0.003	<0.003					
10/16/2019				<0.003	<0.003			
11/7/2019						<0.003	<0.003	<0.003
11/18/2019						<0.003		
11/19/2019							<0.003	<0.003
12/4/2019							0.00041 (J)	<0.003
12/5/2019						<0.003		
12/17/2019							<0.003	
12/18/2019						<0.003		<0.003
1/8/2020							<0.003	<0.003
1/9/2020						<0.003		
1/21/2020						<0.003	<0.003	<0.003
2/4/2020						<0.003	<0.003	<0.003
2/13/2020						<0.003	<0.003	<0.003
3/27/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/13/2021	<0.003	<0.003						
9/14/2021			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022							<0.003	<0.003
3/2/2022			<0.003			<0.003		
3/3/2022	<0.003	<0.003		<0.003	<0.003			
9/20/2022						<0.003	<0.003	<0.003
9/21/2022	<0.003	<0.003	<0.003	<0.003	<0.003			
2/28/2023	<0.003				<0.003	<0.003	<0.003	<0.003
3/1/2023				<0.003				
3/2/2023		<0.003	<0.003					
9/12/2023	<0.003	<0.003	<0.003	<0.003				
9/13/2023					<0.003		<0.003	<0.003
9/14/2023						<0.003		
3/19/2024	<0.003				<0.003	<0.003	<0.003	
3/20/2024		<0.003	<0.003					
3/21/2024				<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.003				<0.003			
9/11/2024		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					<0.02	0.212	0.0066	
11/30/2016		0.0018 (J)			0.0132	0.129	0.0281	
2/15/2017		0.0022 (J)						
2/16/2017					0.0372	0.257	0.0295	
5/31/2017			<0.005					0.0259
6/1/2017		0.0036 (J)		0.004 (J)				
6/2/2017					0.0335	0.0559	0.0286	
8/2/2017			0.0011 (J)	0.0028 (J)				0.0188
8/15/2017								0.0117
8/16/2017		0.0038 (J)	<0.005					
8/17/2017				0.0021 (J)	0.0336	0.458	0.0211	
2/20/2018					0.0267	0.305	0.0271	
4/4/2018				0.0023 (J)				0.017
4/5/2018			0.00098 (J)					
4/30/2018					0.025 (J)	0.36	0.016 (J)	
5/8/2018				0.0048 (J)				0.016
5/9/2018			0.0014 (J)					
6/19/2018		0.0069	0.0011 (J)					0.011
6/20/2018				0.0099	0.019	0.44		
6/21/2018							0.022 (J)	
7/24/2018					0.0079	0.45	0.014	
8/28/2018					0.0079	0.36	0.014	
9/25/2018								0.011
9/26/2018		0.0081	<0.005					
9/27/2018				0.01	0.0035 (J)	0.27	0.015	
10/30/2018					0.0029 (J)	0.42	0.0061	
11/6/2018				0.013			0.012	0.0043 (J)
11/7/2018		0.0069	0.00059 (J)		0.002 (J)	0.5		
11/27/2018					0.0016 (J)	0.5	0.011	
12/18/2018					0.0043 (J)	0.6	0.018	
1/22/2019					0.0028 (J)	0.48	0.0097	
2/22/2019					0.00095 (J)	0.46	0.024 (J)	
3/6/2019						0.49		
3/25/2019								0.0029 (J)
3/26/2019					0.0018 (J)	0.3	0.0078	
6/4/2019					0.0019 (J)	0.41	0.017	
7/2/2019					0.0024 (J)	0.37	0.027	
7/29/2019					0.0021 (J)	0.45	0.0053	
8/26/2019					0.0021 (J)	0.46	0.0052	
8/27/2019		0.0079		0.0072				
8/28/2019			<0.005		0.0019 (J)	0.5	0.011	0.005 (J)
9/30/2019					0.002 (J)		0.0036 (J)	
10/2/2019						0.6		
10/15/2019				0.0038 (J)				
10/16/2019		0.01	0.003 (J)		0.0047 (J)			0.0054
10/17/2019						0.34	0.0046 (J)	
11/19/2019			0.00057 (J)					
11/20/2019		0.0064						
3/26/2020		0.0069						
3/27/2020			<0.005					0.0034 (J)
3/28/2020	<0.005			0.0034 (J)	<0.02	0.3	0.012	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
6/16/2020						0.51		
10/12/2020								0.0047 (J)
10/13/2020		0.0061	<0.005	0.0022 (J)				
10/14/2020						0.44 (D)	0.013	
10/15/2020	0.021				0.024			
1/4/2021					0.0072			
3/3/2021		0.016 (J)	<0.005					0.011 (J)
3/4/2021	0.017 (J)			0.0018 (J)	<0.02	0.35	0.015 (J)	
9/14/2021	0.022	0.0055	0.00067 (J)	0.0047 (J)	0.02 (J)	0.51	0.013 (J)	0.011
3/1/2022	0.015 (J)				0.011 (J)	0.24		
3/2/2022		0.0043	0.00077 (J)				0.009 (J)	0.0071
3/3/2022				0.0041				
6/28/2022	0.025					0.17		
9/20/2022	0.021					0.18		
9/21/2022		0.0057 (J)	<0.005	0.0017 (J)	0.0077		0.01	0.013
3/1/2023		0.00493 (J)	<0.005	0.00247 (J)				0.00868 (J)
3/2/2023	0.0202				0.00578 (J)	0.0764	0.014	
9/12/2023		0.00628			0.0113			
9/13/2023				0.00601			0.0117	0.0217
9/14/2023	0.0254		<0.005			0.0653		
3/19/2024			<0.005					
3/20/2024		0.0048 (J)		<0.005				0.0158
3/21/2024	0.0163 (J)				0.017	0.0675	0.0107 (J)	
9/10/2024				<0.005				0.0163
9/11/2024	0.0121	0.00586	<0.005		0.0249		0.00833	
9/12/2024						0.107		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005	<0.005		0.0018 (J)				
10/25/2016					<0.005			
11/30/2016	<0.005	<0.005		<0.005	0.0072			
2/15/2017	<0.005	<0.005		<0.005	0.0017 (J)			
5/31/2017	0.0007 (J)	0.0008 (J)			0.0018 (J)			
6/1/2017				<0.005				
6/2/2017			0.0026 (J)					
8/2/2017			0.0047 (J)					
8/15/2017	0.0006 (J)				0.0015 (J)			
8/16/2017		0.0007 (J)						
8/17/2017			0.0028 (J)	<0.005				
4/4/2018			0.0029 (J)					
5/8/2018			0.0048 (J)					
6/19/2018	0.001 (J)	0.0062 (J)	0.0019 (J)		0.0029 (J)			
6/20/2018				0.00058 (J)				
9/25/2018	0.0011 (J)	0.0031 (J)						
9/26/2018			0.0023 (J)	<0.005	0.0015 (J)			
11/6/2018		0.0014 (J)			<0.005			
11/7/2018	<0.005		<0.025	<0.005				
8/26/2019		0.0022 (J)						
8/27/2019	0.0011 (J)		0.0041 (J)	0.0019 (J)	0.0024 (J)			
10/15/2019	0.0024 (J)	0.0067	0.0038 (J)					
10/16/2019				0.001 (J)	0.0043 (J)			
11/7/2019						0.0067	0.0094 (J)	0.026
11/18/2019						0.012 (J)		
11/19/2019							0.019 (J)	0.031 (J)
11/21/2019					0.0031 (J)			
12/4/2019							0.016	0.026
12/5/2019						0.0055		
12/17/2019							0.011 (J)	
12/18/2019						0.0031 (J)		0.019 (J)
1/8/2020							0.015 (J)	0.022 (J)
1/9/2020						0.0034 (J)		
1/21/2020						0.0031 (J)	0.015 (J)	0.024 (J)
2/4/2020						<0.005	0.0092 (J)	0.022 (J)
2/13/2020						0.0066	0.021 (J)	0.029
3/27/2020	<0.005	<0.005	0.0018 (J)	<0.005	<0.005	0.0043 (J)	0.017	0.027
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	0.0042 (J)	<0.005	<0.005		0.0089	0.018
10/14/2020		<0.005						
3/2/2021	<0.005	<0.005	0.021 (J)					
3/3/2021				0.0012 (J)	<0.005	0.0014 (J)	0.0086 (J)	0.016 (J)
9/13/2021	<0.005	<0.005						
9/14/2021			0.0035 (J)	<0.005	<0.005	0.0029 (J)	0.018 (J)	0.028
3/1/2022							0.0061 (J)	0.032
3/2/2022			0.0032			0.0064 (J)		
3/3/2022	<0.005	<0.005		0.00024 (J)	<0.005			
9/20/2022						0.0026 (J)	0.021	0.026
9/21/2022	<0.005	<0.005	0.0044 (J)	<0.005	<0.005			
2/28/2023	<0.005				0.00226 (J)	0.00273 (J)	0.0173	0.0166
3/1/2023				0.00223 (J)				
3/2/2023		0.00201 (J)	0.00756 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.00234 (J)	0.00263 (J)	0.00677	<0.005				
9/13/2023					0.00283 (J)		0.0172	0.0182
9/14/2023						0.00374 (J)		
3/19/2024	<0.005				<0.005	0.00252 (J)	0.0173 (J)	
3/20/2024		<0.005	0.00409 (J)					
3/21/2024				<0.005				0.0206 (J)
9/10/2024	<0.005				<0.005			
9/11/2024		0.00215 (J)	0.00538	<0.005		0.0021 (J)	0.0134	0.0197

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.0443						
8/31/2016					0.0289	0.0498	0.0771	
11/30/2016		0.0524			0.0168	0.0528	0.101	
2/15/2017		0.124						
2/16/2017					0.016	0.0555	0.0865	
5/31/2017			0.127					0.0646
6/1/2017		0.0757		0.0195				
6/2/2017					0.0393 (J)	0.0508	0.123	
8/2/2017			0.121	0.053				0.0533
8/15/2017								0.0247
8/16/2017		0.0522	0.116					
8/17/2017				0.0475	0.0188	0.0596	0.124	
4/4/2018				0.035				0.057
4/5/2018			0.12					
5/8/2018				0.027				0.062
5/9/2018			0.11					
6/19/2018		0.083	0.1					0.031
6/20/2018				0.027	0.014	0.06		
6/21/2018							0.1	
9/25/2018								0.041
9/26/2018		0.073	0.11					
9/27/2018				0.14	0.0097 (J)	0.06	0.12	
11/6/2018				0.31			0.12	0.031
11/7/2018		0.071	0.097		0.0085 (J)	0.19		
3/6/2019						0.16		
3/25/2019								0.036
8/27/2019		0.077		0.083				
8/28/2019			0.1		0.011	0.13	0.4	0.035
10/15/2019				0.082				
10/16/2019		0.074	0.1		0.012			0.036
10/17/2019						0.13	0.35	
3/26/2020		0.07						
3/27/2020			0.095					0.039
3/28/2020				0.039	0.0041 (J)	0.12	0.11	
10/12/2020								0.039
10/13/2020		0.06	0.086	0.055				
10/14/2020						0.14	0.19	
10/15/2020	0.071				0.45			
1/4/2021					0.051			
3/3/2021		0.14	0.21					0.09
3/4/2021	0.096			0.062	0.0082 (J)	0.14	0.2	
9/14/2021	0.082	0.065	0.082	0.043	0.08	0.22	0.2	0.07
3/1/2022	0.074				0.035	0.084		
3/2/2022		0.064	0.08				0.12	0.05
3/3/2022				0.031				
9/20/2022	0.069					0.027		
9/21/2022		0.11	0.076	0.029	0.014		0.12	0.04
3/1/2023		0.097 (J)	0.0806 (J)	0.031 (J)				0.0405 (J)
3/2/2023	0.0601 (J)				0.0133 (J)	0.0195 (J)	0.0982 (J)	
9/12/2023		0.128			0.0257			
9/13/2023				0.0358			0.0745	0.0794
9/14/2023	0.0583		0.075			0.0456		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			0.0787					
3/20/2024		0.0969		0.0501				0.05
3/21/2024	0.0473				0.0287	0.0352	0.0493	
9/10/2024				0.063				0.0301
9/11/2024	0.0398	0.0868	0.0585		0.023		0.0454	
9/12/2024						0.0727		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.108	0.0131		0.0973				
10/25/2016					0.063			
11/30/2016	0.121	0.0105		0.11	0.0628			
2/15/2017	0.111	0.0786		0.0945	0.0102			
5/31/2017	0.131	0.0199			0.061			
6/1/2017				0.121				
6/2/2017			0.0368 (J)					
8/2/2017			0.0355					
8/15/2017	0.126				0.0579			
8/16/2017		0.033						
8/17/2017			0.037	0.121				
4/4/2018			0.039					
5/8/2018			0.037					
6/19/2018	0.13	0.092	0.038		0.076			
6/20/2018				0.13				
9/25/2018	0.12	0.098						
9/26/2018			0.049	0.13	0.099			
11/6/2018		0.1			0.052			
11/7/2018	0.11		0.05	0.12				
8/26/2019		0.12						
8/27/2019	0.14		0.048	0.13	0.11			
10/15/2019	0.14	0.12	0.041					
10/16/2019				0.13	0.14			
11/7/2019						0.12	0.22	0.16
11/18/2019						0.11		
11/19/2019							0.13	0.14
12/4/2019							0.14	0.14
12/5/2019						0.12		
12/17/2019							0.14	
12/18/2019						0.11		0.15
1/8/2020							0.14	0.14
1/9/2020						0.096		
1/21/2020						0.098	0.14	0.14
2/4/2020						0.091	0.13	0.12
2/13/2020						0.098	0.13	0.12
3/27/2020	0.12	0.13	0.041	0.13	0.16	0.076	0.12	0.12
10/12/2020	0.1					0.091		
10/13/2020		0.14	0.024	0.11	0.14		0.12	0.12
3/2/2021	0.1	0.16	0.067					
3/3/2021				0.059	0.17	0.099	0.14	0.12
9/13/2021	0.086	0.16						
9/14/2021			0.05	0.16	0.2	0.098	0.13	0.11
3/1/2022							0.14	0.11
3/2/2022			0.04			0.091		
3/3/2022	0.069	0.15		0.13	0.1			
9/20/2022						0.11	0.12	0.12
9/21/2022	0.068	0.059	0.022	0.11	0.089			
2/28/2023	0.071 (J)				0.0828 (J)	0.105 (J)	0.0869 (J)	0.0928 (J)
3/1/2023				0.109 (J)				
3/2/2023		0.0356 (J)	0.0282 (J)					
9/12/2023	0.074	0.0306	0.0272	0.116				
9/13/2023					0.0706		0.097	0.101

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.127		
3/19/2024	0.0661				0.0776	0.123	0.0858	
3/20/2024		0.026	0.0396					
3/21/2024				0.101				0.097
9/10/2024	0.0633				0.0724			
9/11/2024		0.0279	0.0243	0.0651		0.123	0.0837	0.0823

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0005						
8/31/2016					<0.0005	<0.0005	<0.0005	
11/30/2016		<0.0005			<0.0005	<0.0005	<0.0005	
2/15/2017		<0.0005						
2/16/2017					<0.0005	<0.0005	<0.0005	
5/31/2017			0.0002 (J)					7E-05 (J)
6/1/2017		9E-05 (J)		0.0001 (J)				
6/2/2017					<0.0005	<0.0005	<0.0005	
8/2/2017			0.0002 (J)	0.0003 (J)				0.0001 (J)
8/15/2017								9E-05 (J)
8/16/2017		<0.0005	0.0002 (J)					
8/17/2017				0.0002 (J)	<0.0005	<0.0005	<0.0005	
4/4/2018				<0.0005				<0.0005
4/5/2018			<0.0005					
5/8/2018				0.00025 (J)				0.0001 (J)
5/9/2018			0.00017 (J)					
6/19/2018		0.00011 (J)	0.00017 (J)					0.00011 (J)
6/20/2018				0.00021 (J)	<0.0005	<0.0005		
6/21/2018							<0.0005	
9/25/2018								0.0001 (J)
9/26/2018		9.2E-05 (J)	0.00017 (J)					
9/27/2018				0.00031 (J)	<0.0005	<0.0005	7.4E-05 (J)	
11/6/2018				0.00077 (J)			0.00012 (J)	0.00012 (J)
11/7/2018		0.0001 (J)	0.00015 (J)		5.4E-05 (J)	<0.0005		
3/6/2019						<0.0005		
8/27/2019		9E-05 (J)		0.00032 (J)				
8/28/2019			0.00011 (J)		<0.0005	<0.0005	<0.0005	8.4E-05 (J)
10/15/2019				0.00035 (J)				
10/16/2019		<0.0005	0.00013 (J)		<0.0005			9E-05 (J)
10/17/2019						<0.0005	7.8E-05 (J)	
3/26/2020		<0.0005						
3/27/2020			<0.0005					<0.0005
3/28/2020				<0.0005	<0.0005	<0.0005	<0.0005	
10/12/2020								<0.0005
10/13/2020		<0.0005	<0.0005	<0.0005				
10/14/2020						<0.0005	<0.0005	
10/15/2020	<0.0005				<0.0005			
1/4/2021					<0.0005			
3/3/2021		<0.0005	<0.0005					<0.0005
3/4/2021	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2022	<0.0005				<0.0005	<0.0005		
3/2/2022		9.6E-05 (J)	0.00015				<0.0005	0.00011
3/3/2022				0.00025				
9/20/2022	<0.0005					<0.0005		
9/21/2022		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/1/2023		<0.0005	<0.0005	<0.0005				<0.0005
3/2/2023	<0.0005				<0.0005	<0.0005	<0.0005	
9/12/2023		0.000253 (J)			<0.0005			
9/13/2023				<0.0005			<0.0005	<0.0005
9/14/2023	<0.0005		<0.0005			<0.0005		
3/19/2024			<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/20/2024		<0.0005		0.000208 (J)				<0.0005
3/21/2024	<0.0005				<0.0005	<0.0005	<0.0005	
9/10/2024				0.000321 (J)				<0.0005
9/11/2024	<0.0005	0.0002 (J)	<0.0005		<0.0005		<0.0005	
9/12/2024						<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0003 (J)	<0.0005		0.0001 (J)				
10/25/2016					0.0004 (J)			
11/30/2016	0.0004 (J)	<0.0005		0.0002 (J)	0.0003 (J)			
2/15/2017	0.0004 (J)	<0.0005		<0.0005	<0.0005			
5/31/2017	0.0005 (J)	0.0001 (J)			0.0002 (J)			
6/1/2017				0.0002 (J)				
6/2/2017			0.0001 (J)					
8/2/2017			<0.0005					
8/15/2017	0.0005 (J)				0.0002 (J)			
8/16/2017		0.0002 (J)						
8/17/2017			0.0001 (J)	0.0002 (J)				
4/4/2018			<0.0005					
5/8/2018			0.00031 (J)					
6/19/2018	0.00065 (J)	<0.0005	0.00034 (J)		0.00032 (J)			
6/20/2018				0.00024 (J)				
9/25/2018	0.00066 (J)	5E-05 (J)						
9/26/2018			0.00039 (J)	0.00019 (J)	0.00024 (J)			
11/6/2018		9.7E-05 (J)			0.00026 (J)			
11/7/2018	0.00058 (J)		0.00041 (J)	0.00019 (J)				
8/26/2019		0.0001 (J)						
8/27/2019	0.0009 (J)		0.00042 (J)	0.00021 (J)	0.00018 (J)			
10/15/2019	0.00079 (J)	<0.0005	0.00034 (J)					
10/16/2019				0.00014 (J)	0.00014 (J)			
11/7/2019						0.007	0.0068 (J)	0.021
11/18/2019						0.0063 (J)		
11/19/2019							0.014 (J)	0.015 (J)
12/4/2019							0.01	0.011
12/5/2019						0.0045		
12/17/2019							0.012	
12/18/2019						0.0048		0.012
1/8/2020							0.015 (J)	0.017
1/9/2020						0.0043		
1/21/2020						0.0041 (J)	0.012 (J)	0.015
2/4/2020						0.0049 (J)	0.015 (J)	0.017 (J)
2/13/2020						0.0043	0.013 (J)	0.015 (J)
3/27/2020	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	0.004	0.011	0.018
10/12/2020	0.001 (J)					0.0041		
10/13/2020		<0.0005	<0.0005	<0.0005	<0.0005		0.015	0.017
3/2/2021	<0.005	<0.0005	<0.0005					
3/3/2021				<0.0005	<0.0005	0.003	0.015	0.014
9/13/2021	0.0011	<0.0005						
9/14/2021			0.00034 (J)	0.00062	<0.0005	0.0031	0.0062	0.016
3/1/2022							0.0057	0.016
3/2/2022			0.00032			0.0037		
3/3/2022	0.0012 (J)	<0.0005		0.00023	<0.0005			
9/20/2022						0.003	0.017	0.02
9/21/2022	0.0011 (J)	<0.0005	<0.0005	<0.0005	0.00029 (J)			
2/28/2023	0.00135 (J)				0.000279 (J)	0.0029 (J)	0.0144	0.0155
3/1/2023				0.000223 (J)				
3/2/2023		<0.0005	0.000201 (J)					
9/12/2023	0.00137	<0.0005	<0.0005	0.000209 (J)				
9/13/2023					0.000249 (J)		0.00707	0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.00267		
3/19/2024	0.00145				<0.0005	0.00243	0.0144	
3/20/2024		<0.0005	0.000215 (J)					
3/21/2024				<0.0005				0.0133
9/10/2024	0.00137				<0.0005			
9/11/2024		<0.0005	<0.0005	<0.0005		0.00225	0.0157	0.0127

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.0325 (J)						
8/31/2016					0.56	0.632	0.863	
11/30/2016		0.0334 (J)			0.529	0.637	0.804	
2/15/2017		0.254						
2/16/2017					0.539	0.698	0.815	
5/31/2017			0.161					0.0521
6/1/2017		0.0564		0.0608				
6/2/2017					0.555	0.674	0.891	
8/2/2017			0.158	0.137				0.0392 (J)
8/15/2017								0.0448
8/16/2017		0.0435	0.148					
8/17/2017				0.128	0.516	0.7	0.922	
4/4/2018				0.1				0.046
4/5/2018			0.13					
5/8/2018				0.074				0.048
5/9/2018			0.12					
6/19/2018		0.04 (J)	0.13					0.04
6/20/2018				0.045	0.51	0.69		
6/21/2018							0.99	
9/25/2018								0.043
9/26/2018		0.038 (J)	0.1					
9/27/2018				0.06	0.47	0.62	0.88	
11/6/2018				0.06			1.1	0.046
11/7/2018		0.037 (J)	0.1		0.51	0.86		
3/6/2019						1.5		
3/24/2019					0.44	1.1	1.2	
3/25/2019		0.038 (J)	0.091	0.058				0.03 (J)
10/15/2019				0.068				
10/16/2019		0.036 (J)	0.085		0.49			0.032 (J)
10/17/2019						1.3	1.1	
11/20/2019					0.53		1.3	
3/26/2020		0.064 (J)						
3/27/2020			0.17 (J)					0.058 (J)
3/28/2020				0.067 (J)	0.28 (J)	0.95	0.79	
6/16/2020	2.1					2	1.7	
10/12/2020								<2.5
10/13/2020		<2.5	<2.5	<0.5				
10/14/2020						1.5	1.8	
10/15/2020	2.1				0.61			
1/4/2021					0.99			
3/3/2021		<2.5	<2.5					<2.5
3/4/2021	2.2 (J)			0.11 (J)	0.4 (J)	1.4 (J)	1.6 (J)	
9/14/2021	2	0.079 (J)	0.093 (J)	0.07 (J)	0.95 (J)	1.1	1.5	0.06 (J)
3/1/2022	1.6 (J)				0.75 (J)	1.7		
3/2/2022		0.048 (J)	0.086				1.3	0.038 (J)
3/3/2022				0.053				
9/20/2022	1.7					1.1		
9/21/2022		0.35 (J)	0.23 (J)	0.19 (J)	0.61		1.3	0.17 (J)
3/1/2023		0.091	0.115	0.108				0.0461
3/2/2023	1.82				0.511	0.961	1.25	
9/12/2023		0.101			0.42			
9/13/2023				0.047			1.21	0.0783

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/14/2023	1.61		0.102			0.807		
3/19/2024			0.0924					
3/20/2024		0.0784		0.116				0.0443
3/21/2024	1.84				0.491	0.772	1.05	
9/10/2024				0.131				0.0483
9/11/2024	1.52	0.0753	0.0875		0.463		0.888	
9/12/2024						0.745		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.18	0.726		0.0972 (J)				
10/25/2016					1.73			
11/30/2016	1.3	0.565		0.0964	2.12			
2/15/2017	1.33	0.647		0.398	2.14			
5/31/2017	1.38	0.503			2.24			
6/1/2017				0.0776				
6/2/2017			0.0495					
8/2/2017			0.0333 (J)					
8/15/2017	1.14				2.1			
8/16/2017		0.539						
8/17/2017			0.0593	0.0853				
4/4/2018			0.065					
5/8/2018			0.062					
6/19/2018	1.2	0.76	0.064		1.7			
6/20/2018				0.079				
9/25/2018	1	0.61						
9/26/2018			0.06	0.072	1.3			
11/6/2018		0.75			1.8			
11/7/2018	1.4		0.062 (J)	0.074				
3/24/2019	1	0.95			1.4			
3/25/2019			0.057	0.067				
10/15/2019	1.1	1	0.046					
10/16/2019				0.051	1.6			
11/7/2019						0.27	0.84	1.1
11/18/2019						0.29 (J)		
11/19/2019							0.83	1.3
11/21/2019		1			1.5			
12/4/2019							0.68	0.81
12/5/2019						0.23		
12/17/2019							0.57	
12/18/2019						0.23		0.77
1/8/2020							0.73	0.9
1/9/2020						0.2		
1/21/2020						0.24 (J)	0.75	0.94
2/4/2020						0.24 (J)	0.79 (J)	0.96 (J)
2/13/2020						0.22	0.74	0.88
3/27/2020	1.5	1.3	0.076 (J)	0.088 (J)	1.8	0.24 (J)	0.96	0.94
10/12/2020	1.3					0.24 (J)		
10/13/2020		1.1	<2.5	<0.5	1.8		0.73	1.1
10/14/2020		1.2						
3/2/2021	1.4 (J)	1.4 (J)	<2.5					
3/3/2021				<0.5	1.7 (J)	0.21 (J)	0.79 (J)	0.91 (J)
7/1/2021		0.26 (J)						
9/13/2021	1.4	1.2						
9/14/2021			0.068 (J)	0.071 (J)	2.1	0.2 (J)	1.2	0.91 (J)
3/1/2022							0.41 (J)	0.87 (J)
3/2/2022			0.054			0.23 (J)		
3/3/2022	1.2	0.89 (J)		0.057	1.4			
9/20/2022						0.18 (J)	0.77	0.9
9/21/2022	1.3	1	0.14 (J)	0.12 (J)	1.8			
2/28/2023	1.23				1.78	0.185	0.707	0.723
3/1/2023				0.0669				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		0.738	0.0416					
9/12/2023	1.42	0.657	0.0393	0.0613				
9/13/2023					1.97		1.2	1.02
9/14/2023						0.229		
3/19/2024	1.33				1.73	0.185	0.704	
3/20/2024		0.474	0.0531					
3/21/2024				0.0603				0.864
9/10/2024	1.31				1.65			
9/11/2024		0.415	0.035	0.0517		0.172	0.61	0.841

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.001						
8/31/2016					<0.001	<0.001	<0.001	
11/30/2016		<0.001			<0.001	<0.001	<0.001	
2/15/2017		<0.001						
2/16/2017					<0.001	<0.001	<0.001	
5/31/2017			<0.001					<0.001
6/1/2017		<0.001		<0.001				
6/2/2017					<0.001	<0.001	<0.001	
8/2/2017			<0.001	<0.001				<0.001
8/15/2017								<0.001
8/16/2017		<0.001	<0.001					
8/17/2017				<0.001	<0.001	<0.001	<0.001	
4/4/2018				<0.001				<0.001
4/5/2018			<0.001					
5/8/2018				<0.001				<0.001
5/9/2018			<0.001					
6/19/2018		<0.001	<0.001					<0.001
6/20/2018				<0.001	<0.001	<0.001		
6/21/2018							<0.001	
9/25/2018								0.0002 (J)
9/26/2018		<0.001	<0.001					
9/27/2018				<0.001	<0.001	<0.001	<0.001	
11/6/2018				<0.001			<0.001	<0.001
11/7/2018		<0.001	<0.001		<0.001	<0.001		
3/6/2019						<0.001		
8/27/2019		<0.001		<0.001				
8/28/2019			<0.001		<0.001	<0.001	<0.001	<0.001
10/15/2019				<0.001				
10/16/2019		<0.001	<0.001		<0.001			<0.001
10/17/2019						<0.001	<0.001	
3/26/2020		<0.001						
3/27/2020			<0.001					<0.001
3/28/2020				<0.001	<0.001	<0.001	<0.001	
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022	<0.001				<0.001	<0.001		
3/2/2022		<0.001	<0.001				<0.001	<0.001
3/3/2022				0.00043				
9/20/2022	<0.001					<0.001		
9/21/2022		<0.001	<0.001	<0.001	<0.001		0.0002 (J)	<0.001
3/1/2023		<0.001	<0.001	<0.001				<0.001
3/2/2023	<0.001				<0.001	<0.001	<0.001	
9/12/2023		<0.001			<0.001			
9/13/2023				<0.001			<0.001	<0.001
9/14/2023	<0.001		<0.001			<0.001		
3/19/2024			<0.001					
3/20/2024		<0.001		<0.001				<0.001
3/21/2024	<0.001				<0.001	<0.001	<0.001	
9/10/2024				<0.001				<0.001
9/11/2024	<0.001	<0.001	<0.001		<0.001		<0.001	
9/12/2024						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001	<0.001		<0.001				
10/25/2016					<0.001			
11/30/2016	<0.001	<0.001		<0.001	<0.001			
2/15/2017	<0.001	<0.001		<0.001	<0.001			
5/31/2017	<0.001	<0.001			<0.001			
6/1/2017				<0.001				
6/2/2017			<0.001					
8/2/2017			<0.001					
8/15/2017	<0.001				<0.001			
8/16/2017		<0.001						
8/17/2017			<0.001	<0.001				
4/4/2018			<0.001					
5/8/2018			<0.001					
6/19/2018	<0.001	<0.001	<0.001		<0.001			
6/20/2018				<0.001				
9/25/2018	<0.001	<0.001						
9/26/2018			<0.001	<0.001	<0.001			
11/6/2018		<0.001			<0.001			
11/7/2018	<0.001		<0.001	<0.001				
8/26/2019		<0.001						
8/27/2019	<0.001		<0.001	<0.001	<0.001			
10/15/2019	<0.001	<0.001	<0.001					
10/16/2019				<0.001	<0.001			
11/7/2019						<0.001	<0.001	0.00034 (J)
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/27/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2021	<0.001	<0.001						
9/14/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022			<0.001			<0.001		
3/3/2022	<0.001	<0.001		<0.001	<0.001			
9/20/2022						0.00078 (J)	0.0083 (O)	0.0043
9/21/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/28/2023	<0.001				<0.001	<0.001	<0.001	<0.001
3/1/2023				<0.001				
3/2/2023		<0.001	<0.001					
9/12/2023	<0.001	<0.001	<0.001	<0.001				
9/13/2023					<0.001		<0.001	<0.001
9/14/2023						<0.001		
3/19/2024	<0.001				<0.001	<0.001	<0.001	
3/20/2024		<0.001	<0.001					
3/21/2024				<0.001				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.001				<0.001			
9/11/2024		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		7.3						
8/31/2016					65	82.8	119	
11/30/2016		10.8			71.7	68.7	103	
2/15/2017		14.3						
2/16/2017					74	94.8	114	
5/31/2017			5.9					18.6
6/1/2017		12.7 (J)		3.65				
6/2/2017					120	92.5	179	
8/2/2017			4.69	12.4				18.5
8/15/2017								4.09
8/16/2017		8.7	5.25					
8/17/2017				8.17	100	126	186	
4/4/2018				6.8				<25
4/5/2018			5					
5/8/2018				5.7				18.4 (J)
5/9/2018			4.7					
6/19/2018		11.6 (J)	4.8					4.3
6/20/2018				4.3	72.8	121		
6/21/2018							179	
6/28/2018		13						
9/25/2018								6.2
9/26/2018		12.8 (J)	4.6					
9/27/2018				16.4 (J)	46.6	95.1	193	
11/6/2018				39.5			219	1.8
11/7/2018		11.9	4.6		41.8	364		
3/6/2019						341		
3/24/2019					20.9 (J)	277	243	
3/25/2019		12.6 (J)	4.7	20.8 (J)				2.5
10/15/2019				15.5				
10/16/2019		13.6	4.9		55.2			2.2
10/17/2019						309	260	
11/20/2019					55.8		308	
3/26/2020		10.1						
3/27/2020			4.9					3.3
3/28/2020				15.5	25.8	286	286	
4/23/2020	266					266		
6/16/2020	245					234	254	
10/12/2020								2.8
10/13/2020		9.8	3.8	12.5				
10/14/2020						219 (D)	216	
10/15/2020	194				69.1			
1/4/2021					107			
3/3/2021		14	4					2.1
3/4/2021	257			15.1	23.4	233	244	
9/14/2021	273	9.6	4.2	12.5	13.9	299	225	14
3/1/2022	303				48.4	131		
3/2/2022		8.2	4.1				198	6.8
3/3/2022				8				
6/28/2022	225					73.5		
9/20/2022	240					47		
9/21/2022		9.2	4.3	7.8	28		190	7.6
3/1/2023		7.87	5.26	7.75				6.53

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/2/2023	234				25.9	36.1	194	
9/12/2023		10.1			61.5			
9/13/2023				4.93			136	20.7
9/14/2023	158		6.64			83.1		
3/19/2024			4.73					
3/20/2024		11.3		10.1				9.1
3/21/2024	182				75.5	66.6	89.1	
9/10/2024				9.06				6.36
9/11/2024	162	9.6	5.36		78.5		72.5	
9/12/2024						134		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	7.05	42.8		4.02				
10/25/2016					69.4			
11/30/2016	8.69	33.2		4.87	83.9			
2/15/2017	8.34	56.1		6.61	96.3			
5/31/2017	8.85	73.6			122			
6/1/2017				6.42				
6/2/2017			2.77					
8/2/2017			1.27					
8/15/2017	8.05				117			
8/16/2017		99.6						
8/17/2017			5.53	5.62				
4/4/2018			6.5					
5/8/2018			6.7					
6/19/2018	8.3	285	7.4		136			
6/20/2018				5.7				
6/28/2018	8.9	294			138			
9/25/2018	6.8	283						
9/26/2018			8.5 (J)	5.3	148			
11/6/2018		297			24.7			
11/7/2018	8.5		9.8	5.3				
3/24/2019	7.4	338			136			
3/25/2019			7.8	5.7				
10/15/2019	7.9	321	6.7					
10/16/2019				4.8	118			
11/7/2019						46.2	158	163
11/18/2019						41.8		
11/19/2019							152	169
11/21/2019		305			125			
12/4/2019							142	140
12/5/2019						40.5		
12/17/2019							136	
12/18/2019						42		145
1/8/2020							147	157
1/9/2020						37.1		
1/21/2020						40.1	167	152
2/4/2020						36.2	142	139
2/13/2020						38.9	148	146
3/27/2020	8.3	286	5.9	5.4	222	23.2	122	113
10/12/2020	6.1					19.1		
10/13/2020		40.9	0.83	5.7	86.4		125	128
10/14/2020		177						
3/2/2021	6.5	205	1.4					
3/3/2021				11.2	143	26	123	110
7/1/2021		231						
9/13/2021	6	165						
9/14/2021			6.7	6.5	190	18.8	93.6	61.1
3/1/2022							35.5	99.8
3/2/2022			7.2			22.3		
3/3/2022	4.6	224		5.4	84			
9/20/2022						20	150	100
9/21/2022	4.7	74	0.83	4.6	110			
2/28/2023	5.17				94.2	22.5	150	104

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				4.74				
3/2/2023		48	1.41					
9/12/2023	4.98	55.3	0.953	4.48				
9/13/2023					84.6		202	108
9/14/2023						21.1		
3/19/2024	4.99				63.2	19.7	138	
3/20/2024		40.6	4.88					
3/21/2024				5.32				102
9/10/2024	4.67				57.2			
9/11/2024		41.3	0.928	5.49		15.3	127	87.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		9.7						
8/31/2016					1800	2200	2600	
11/30/2016		19			1100	2100	2800	
2/15/2017		21						
2/16/2017					2100	2500	3100	
5/31/2017			39					98
6/1/2017		12		22				
6/2/2017					3100	2500	4600	
8/2/2017			42	230				57
8/15/2017								15
8/16/2017		14	41					
8/17/2017				210	2600	2700	4600	
4/4/2018				156				69
4/5/2018			40.2					
5/8/2018				140				72.3
5/9/2018			40.6					
6/19/2018		24.4	37.7					17.3
6/20/2018				27.5	1800	3100		
6/21/2018							3920	
9/25/2018								31.3
9/26/2018		23.4	33.4					
9/27/2018				101	1300	2510	5660	
11/6/2018				107			6520	9.8
11/7/2018		21.8	30.7		1180	8860		
3/6/2019						11700		
3/24/2019					717	6470	8720	
3/25/2019		19.4	33.5	78.5				12.9
10/15/2019				46				
10/16/2019		21.4	33.1		1390			12.2
10/17/2019						9930	8210	
11/20/2019					1480		9810	
3/26/2020		23						
3/27/2020			32.9					14.5
3/28/2020				71.4	693	9190	9070	
4/23/2020	7500					7390		
6/16/2020	7780					7760	7580	
10/12/2020								13.9
10/13/2020		13.5	25.7	54.4				
10/14/2020						6780 (D)	8170	
10/15/2020	<1				1660			
1/4/2021					2460			
3/3/2021		13.6	20.5					9.4
3/4/2021	8280			69.6	652	6310	7540	
9/14/2021	7610	16.7	21.8	28.5	3940	5360	6300	62.8
3/1/2022	6750				1680	4150		
3/2/2022		13.4	20.6				5630	28.4
3/3/2022				12.2				
6/28/2022	9640					3520		
9/20/2022	7400					2800		
9/21/2022		17	23	47	1100		6400	32
3/1/2023		14.9	21.8	45.6				17.7
3/2/2023	6860				853	1470	5450	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/12/2023		10.7			1330			
9/13/2023				10.4			3690	98.5
9/14/2023	5380		21.1			2220		
3/19/2024			20					
3/20/2024		10.8		82.3				32.1
3/21/2024	5440				1830	2120	3240	
9/10/2024				100				11.2
9/11/2024	4570	9.34	16.4		1800		2440	
9/12/2024						3240		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	800	450		26				
10/25/2016					1300			
11/30/2016	760	310		27	400			
2/15/2017	740	490		30	2000			
5/31/2017	740	820			2500			
6/1/2017				27				
6/2/2017			11					
8/2/2017			3.2					
8/15/2017	750				2500			
8/16/2017		1500						
8/17/2017			12	32				
4/4/2018			13.4					
5/8/2018			13.2					
6/19/2018	760	5180	13.7		3050			
6/20/2018				30				
9/25/2018	752	7220						
9/26/2018			18.5	28.4	3965 (D)			
11/6/2018		6020			2230			
11/7/2018	665		20.2	25.1				
3/24/2019	744	7400			3960			
3/25/2019			19.7	21.8				
10/15/2019	744	9050	17.1					
10/16/2019				20	4260			
11/7/2019						2360	6170	7880
11/18/2019						6970		
11/19/2019							5650	8130
11/21/2019		8330			3890			
12/4/2019							6100	7410
12/5/2019						2130		
12/17/2019							5660	
12/18/2019						2090		7170
1/8/2020							5070	6480
1/9/2020						1750		
1/21/2020						1630	5010	6000
2/4/2020						1760	5030	5700
2/13/2020						1850	6140	7060
3/27/2020	675	7680	14.1	23.6	4770	1450	6870	7110
10/12/2020	552					1340		
10/13/2020		6230	3.8	23.3	3980		5260	5980
10/14/2020		6230						
3/2/2021	459	5680	4.2					
3/3/2021				27.6	3920	1230	5170	5500
7/1/2021		5960						
9/13/2021	433	5010						
9/14/2021			13.6	30	4090	1020	7250	5100
3/1/2022							1870	4900
3/2/2022			14.3			1420		
3/3/2022	394	5040		26.5	3540			
9/20/2022						1200	6200	5700
9/21/2022	400	3300	3.3	17	3300			
2/28/2023	518				2770	1250	5760	7930
3/1/2023				14.2				

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		1810	4.88					
9/12/2023	326	1180	3.49	13.3				
9/13/2023					2660		8600	5250
9/14/2023						1190		
3/19/2024	361				3130	1100	5460	
3/20/2024		1390	13.5					
3/21/2024				11.5				4980
9/10/2024	297				3080			
9/11/2024		1320	3.34	9.65		856	4880	4420

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.01						
8/31/2016					0.0013 (J)	0.001 (J)	0.0022 (J)	
11/30/2016		<0.01			0.0012 (J)	<0.01	<0.01	
2/15/2017		<0.01						
2/16/2017					0.0012 (J)	0.0011 (J)	0.0028 (J)	
5/31/2017			<0.01					<0.01
6/1/2017		<0.01		0.0008 (J)				
6/2/2017					<0.01	<0.01	0.0023 (J)	
8/2/2017			<0.01	0.0012 (J)				<0.01
8/15/2017								0.0006 (J)
8/16/2017		<0.01	<0.01					
8/17/2017				0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)	
4/4/2018				<0.01				<0.01
4/5/2018			<0.01					
5/8/2018				<0.01				<0.01
5/9/2018			<0.01					
6/19/2018		<0.01	<0.01					<0.01
6/20/2018				<0.01	<0.01	<0.01		
6/21/2018							<0.01	
9/25/2018								<0.01
9/26/2018		<0.01	<0.01					
9/27/2018				<0.01	<0.01	<0.01	0.0024 (J)	
11/6/2018				0.0017 (J)			0.002 (J)	<0.01
11/7/2018		<0.01	<0.01		<0.01	<0.01		
3/6/2019						<0.01		
3/25/2019								<0.01
8/27/2019		0.00079 (J)		0.0018 (J)				
8/28/2019			0.0035 (J)		0.00047 (J)	0.00085 (J)	0.0024 (J)	0.00053 (J)
10/15/2019				0.0012 (J)				
10/16/2019		<0.01	<0.01		0.00057 (J)			0.00072 (J)
10/17/2019						0.0015 (J)	0.0019 (J)	
3/26/2020		<0.01						
3/27/2020			<0.01					<0.01
3/28/2020				<0.01	<0.01	<0.01	<0.01	
9/14/2021	<0.01	<0.01	0.0056	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022	<0.01				<0.01	<0.01		
3/2/2022		<0.01	<0.01				<0.01	0.00094 (J)
3/3/2022				0.00085 (J)				
9/20/2022	<0.01					<0.01		
9/21/2022		0.0014 (J)	<0.01	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0015 (J)
3/1/2023		<0.01	<0.01	<0.01				<0.01
3/2/2023	<0.01				<0.01	<0.01	<0.01	
9/12/2023		<0.01			<0.01			
9/13/2023				<0.01			<0.01	<0.01
9/14/2023	<0.01		<0.01			<0.01		
3/19/2024			<0.01					
3/20/2024		<0.01		<0.01				<0.01
3/21/2024	<0.01				<0.01	<0.01	<0.01	
9/10/2024				<0.01				<0.01
9/11/2024	<0.01	<0.01	<0.01		<0.01		<0.01	
9/12/2024						<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0054 (J)	0.0026 (J)		<0.01				
10/25/2016					0.016			
11/30/2016	0.0073 (J)	0.0016 (J)		0.001 (J)	0.0151 (J)			
2/15/2017	0.0045 (J)	0.0018 (J)		<0.01	0.0137			
5/31/2017	0.0052 (J)	0.0019 (J)			0.0109			
6/1/2017				0.0004 (J)				
6/2/2017			0.0019 (J)					
8/2/2017			0.0017 (J)					
8/15/2017	0.005 (J)				0.0117			
8/16/2017		0.0019 (J)						
8/17/2017			0.0027 (J)	0.0005 (J)				
4/4/2018			<0.01					
5/8/2018			0.0029 (J)					
6/19/2018	0.0047 (J)	<0.01	0.002 (J)		0.013 (J)			
6/20/2018				<0.01				
9/25/2018	<0.01	<0.01						
9/26/2018			0.003 (J)	<0.01	0.0092 (J)			
11/6/2018		<0.01			<0.01			
11/7/2018	<0.01		<0.01	<0.01				
8/26/2019		0.00071 (J)						
8/27/2019	0.0056 (J)		0.0026 (J)	0.00043 (J)	0.0066 (J)			
10/15/2019	0.0057 (J)	0.00076 (J)	0.0026 (J)					
10/16/2019				<0.01	0.0063 (J)			
11/7/2019						0.0038 (J)	0.005 (J)	0.0083 (J)
11/18/2019						0.0046 (J)		
11/19/2019							0.0059 (J)	0.0096 (J)
12/4/2019							0.0073 (J)	0.0099 (J)
12/5/2019						0.0046 (J)		
12/17/2019							0.009 (J)	
12/18/2019						0.0045 (J)		0.011 (J)
1/8/2020							0.0077 (J)	0.0092 (J)
1/9/2020						0.004 (J)		
1/21/2020						0.0036 (J)	0.007 (J)	0.009 (J)
2/4/2020						<0.01	0.0057 (J)	0.0078 (J)
2/13/2020						0.0036 (J)	0.0063 (J)	0.0091 (J)
3/27/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0095 (J)
9/13/2021	<0.01	<0.01						
9/14/2021			0.0027 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022							<0.01	<0.01
3/2/2022			0.0029			<0.01		
3/3/2022	<0.01	<0.01		<0.01	<0.01			
9/20/2022						0.0021 (J)	<0.01	<0.01
9/21/2022	0.0077 (J)	0.0015 (J)	0.002 (J)	0.0015 (J)	0.0063 (J)			
2/28/2023	0.00663 (J)				0.00623 (J)	<0.01	0.00575 (J)	0.00573 (J)
3/1/2023				<0.01				
3/2/2023		<0.01	<0.01					
9/12/2023	0.00703 (J)	<0.01	<0.01	<0.01				
9/13/2023					0.00608 (J)		0.00386 (J)	0.00673 (J)
9/14/2023						<0.01		
3/19/2024	0.00689 (J)				0.00466 (J)	<0.01	<0.01	
3/20/2024		<0.01	<0.01					
3/21/2024				<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	0.00672 (J)				0.00441 (J)			
9/11/2024		<0.01	<0.01	<0.01		<0.01	0.00601 (J)	0.00551 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0025						
8/31/2016					<0.0025	<0.0025	<0.0025	
11/30/2016		<0.0025			<0.0025	0.0009 (J)	0.0011 (J)	
2/15/2017		<0.0025						
2/16/2017					<0.0025	<0.0025	<0.0025	
5/31/2017			0.0005 (J)					<0.0025
6/1/2017		<0.0025		<0.0025				
6/2/2017					<0.0025	<0.0025	<0.0025	
8/2/2017			0.0005 (J)	<0.0025				0.0006 (J)
8/15/2017								0.0004 (J)
8/16/2017		<0.0025	0.0005 (J)					
8/17/2017				<0.0025	<0.0025	0.0003 (J)	<0.0025	
4/4/2018				<0.0025				<0.0025
4/5/2018			<0.0025					
5/8/2018				<0.0025				<0.0025
5/9/2018			<0.0025					
6/19/2018		<0.0025	<0.0025					<0.0025
6/20/2018				<0.0025	<0.0025	<0.0025		
6/21/2018							<0.0025	
9/25/2018								<0.0025
9/26/2018		<0.0025	<0.0025					
9/27/2018				<0.0025	<0.0025	<0.0025	<0.0025	
11/6/2018				0.0048 (J)			<0.0025	<0.0025
11/7/2018		<0.0025	<0.0025		<0.0025	<0.0025		
3/6/2019						<0.0025		
8/27/2019		<0.0025		0.0078				
8/28/2019			0.00042 (J)		<0.0025	<0.0025	<0.0025	<0.0025
10/15/2019				0.0085				
10/16/2019		<0.0025	0.00037 (J)		<0.0025			<0.0025
10/17/2019						<0.0025	<0.0025	
11/20/2019				0.009				
3/26/2020		<0.0025						
3/27/2020			<0.0025					<0.0025
3/28/2020				0.0041 (J)	<0.0025	<0.0025	<0.0025	
10/12/2020								<0.0025
10/13/2020		<0.0025	<0.0025	0.0063				
10/14/2020						<0.0025	<0.0025	
10/15/2020	<0.0025				0.0019 (J)			
1/4/2021					<0.0025			
3/3/2021		<0.0025	<0.0025					<0.0025
3/4/2021	<0.0025			0.006	<0.0025	<0.0025	<0.0025	
9/14/2021	<0.0025	<0.0025	<0.0025	0.0054	<0.0025	<0.0025	<0.0025	<0.0025
3/1/2022	<0.0025				<0.0025	<0.0025		
3/2/2022		<0.0025	0.00035 (J)				<0.0025	0.00029 (J)
3/3/2022				0.0049				
9/20/2022	<0.0025					<0.0025		
9/21/2022		<0.0025	0.00032 (J)	0.0025	0.00026 (J)		0.00031 (J)	<0.0025
3/1/2023		<0.0025	0.000372 (J)	0.00256 (J)				<0.0025
3/2/2023	<0.0025				<0.0025	<0.0025	<0.0025	
9/12/2023		<0.0025			<0.0025			
9/13/2023				0.00341			<0.0025	<0.0025
9/14/2023	<0.0025		<0.0025			<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			0.000301 (J)					
3/20/2024		<0.0025		0.00291				<0.0025
3/21/2024	<0.0025				<0.0025	<0.0025	<0.0025	
9/10/2024				0.00238				<0.0025
9/11/2024	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025	
9/12/2024						<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0025	0.0006 (J)		<0.0025				
10/25/2016					<0.0025			
11/30/2016	<0.0025	<0.0025		<0.0025	0.0007 (J)			
2/15/2017	<0.0025	<0.0025		<0.0025	<0.0025			
5/31/2017	0.0005 (J)	<0.0025			<0.0025			
6/1/2017				<0.0025				
6/2/2017			<0.0025					
8/2/2017			<0.0025					
8/15/2017	0.0005 (J)				0.0004 (J)			
8/16/2017		<0.0025						
8/17/2017			<0.0025	0.0004 (J)				
4/4/2018			<0.0025					
5/8/2018			<0.0025					
6/19/2018	0.00053 (J)	<0.0025	<0.0025		<0.0025			
6/20/2018				<0.0025				
9/25/2018	<0.0025	<0.0025						
9/26/2018			<0.0025	<0.0025	<0.0025			
11/6/2018		<0.0025			<0.0025			
11/7/2018	<0.0025		<0.0025	<0.0025				
8/26/2019		<0.0025						
8/27/2019	0.0007 (J)		<0.0025	0.0003 (J)	<0.0025			
10/15/2019	0.00054 (J)	<0.0025	<0.0025					
10/16/2019				<0.0025	<0.0025			
11/7/2019						<0.0025	<0.0025	0.026
11/18/2019						<0.0025		
11/19/2019							<0.0025	0.022 (J)
12/4/2019							<0.0025	0.022
12/5/2019						<0.0025		
12/17/2019							<0.0025	
12/18/2019						<0.0025		0.031
1/8/2020							<0.0025	0.035
1/9/2020						<0.0025		
1/21/2020						<0.0025	<0.0025	0.031
2/4/2020						<0.0025	<0.0025	0.031 (J)
2/13/2020						<0.0025	<0.0025	0.031
3/27/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.036
10/12/2020	<0.0025					<0.0025		
10/13/2020		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	0.032
3/2/2021	<0.0025	<0.0025	<0.0025					
3/3/2021				<0.0025	<0.0025	<0.0025	<0.0025	0.033
9/13/2021	<0.0025	<0.0025						
9/14/2021			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.03
3/1/2022							<0.0025	0.031
3/2/2022			7.7E-05 (J)			<0.0025		
3/3/2022	<0.0025	<0.0025		0.00035 (J)	<0.0025			
9/20/2022						<0.0025	<0.0025	0.03
9/21/2022	0.00042 (J)	<0.0025	<0.0025	0.00024 (J)	0.00025 (J)			
2/28/2023	0.00052 (J)				<0.0025	<0.0025	<0.0025	0.0252 (J)
3/1/2023				<0.0025				
3/2/2023		<0.0025	<0.0025					
9/12/2023	0.000429 (J)	<0.0025	<0.0025	0.000301 (J)				
9/13/2023					<0.0025		<0.0025	0.0241

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						<0.0025		
3/19/2024	0.000452 (J)				<0.0025	<0.0025	<0.0025	
3/20/2024		<0.0025	<0.0025					
3/21/2024				<0.0025				0.0222
9/10/2024	0.000453 (J)				<0.0025			
9/11/2024		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	0.0181

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.929						
8/31/2016					2.39	2.47	5.4	
11/30/2016		5.64			1.66	1.6	3.13	
2/15/2017		1.41						
2/16/2017					2.71	1.83	3.09	
5/31/2017			1.17					1.2
6/1/2017		1.51		1.9				
6/2/2017					1.99	2.45	7.56	
8/2/2017			0.704 (U)	5.01				1.26
8/15/2017								0.511 (U)
8/16/2017		1.01 (U)	1.11 (U)					
8/17/2017				5.35	1.87	3.33	6.38	
4/4/2018				5.05				1.04
4/5/2018			0.868					
5/8/2018				3.25				1.95
5/9/2018			0.888					
6/19/2018		1.23	0.483 (U)					0.785 (U)
6/20/2018				3.53	1.95	2.84		
6/21/2018							5.24	
9/25/2018								1.15
9/26/2018		0.72 (U)	0.73 (U)					
9/27/2018				7.07	0.629 (U)	1.94	6.11	
11/6/2018				11			6.1	1.1
11/7/2018		0.616 (U)	0.429 (U)		1.41 (U)	8.58		
8/27/2019		1.2 (U)		4.4				
8/28/2019			0.679 (U)		1.67	6.86	8.73	0.434 (U)
10/15/2019				4.92				
10/16/2019		1.4 (U)	0.422 (U)		1.92			0.923 (U)
10/17/2019						7.85	7.97	
11/20/2019							9.8	
3/26/2020		1.15 (U)						
3/27/2020			0.838 (U)					0.609 (U)
3/28/2020				4.16	1.44 (U)	11	11.7	
10/12/2020								2.7
10/13/2020		0.855 (U)	0.56 (U)	3.71				
10/14/2020						8.97	13.1	
10/15/2020	6.65				2.56			
1/4/2021					5.84			
4/6/2021	7.33	1.01 (U)	0.474 (U)	2.83	1.43 (U)	7.89	9.66	1.88
9/14/2021	6.97	1.06 (U)	0.878 (U)	2.69	7.15	8.11	10.3	1.37 (U)
3/1/2022	9.03				8.16 (U)	5.83		
3/2/2022		0.379 (U)	0.476 (U)				5.66	0.313 (U)
3/3/2022				2.51				
9/20/2022	8.2					1.51		
9/21/2022		0.863	0.789	1.67	1.42		8.23	0.797
3/1/2023		1.18 (U)	0.439 (U)	5.05				2.35
3/2/2023	9.42				2.22	1.79	4.5	
9/12/2023		3.54			4.42			
9/13/2023				2.05			10.3	3.14
9/14/2023	11.7		3.14			3.61		
3/19/2024			2.04					
3/20/2024		2.7		2.61				3.03

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/21/2024	4.89				2.48	2.73	6.37	
9/10/2024				4.33				2.49
9/11/2024	7.95	2.61	6.28		2.55		5.35	
9/12/2024						5.25		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.4	1.31		0.977				
10/25/2016					2.22			
11/30/2016	4.37	0.438		0.994	2.01			
2/15/2017	2.21	0.3		1.65	1.56			
5/31/2017	2.62	1.77			1.92			
6/1/2017				1.22				
6/2/2017			1.47					
8/2/2017			1.99					
8/15/2017	2.69				2.47			
8/16/2017		2.26						
8/17/2017			2.03	1.71				
4/4/2018			1.96					
5/8/2018			1.69					
6/19/2018	2.96	5.39	1.83		2.82			
6/20/2018				1.78				
9/25/2018	2.23	6.22						
9/26/2018			0.637 (U)	1.56	3.15 (D)			
11/6/2018		5.38			2.95			
11/7/2018	2.14		0.894 (U)	0.651 (U)				
8/26/2019		7.68						
8/27/2019	2.91		2.33	1.03 (U)	5.82			
10/15/2019	3.28	8.7	0.979 (U)					
10/16/2019				1.86	7.5			
11/7/2019						14.8	17.7	38.2
11/18/2019						13.9		
11/19/2019							18.9	43.1
11/21/2019		7.34			8.89			
12/4/2019							18.6	45.1
12/5/2019						14.2		
12/17/2019							21.8	
12/18/2019						17		55.8
1/8/2020							16.9	46.5
1/9/2020						12.3		
1/21/2020						11.7	15.6	37.7
2/4/2020						12.7	22.4	47.9
2/13/2020						18.2	31.1	76.3 (O)
3/27/2020	2.33	9.63	1.84	1.51	9.54	10.2	22.8	47.2
10/12/2020	2.66					8.83		
10/13/2020		7.43	3.32	1.71	7.75		14.1	30.3
4/6/2021	2.2	7.02	1.74	1.81	7.8	9.57	20.4	31.5
9/13/2021	2.54	8.38						
9/14/2021			1.15 (U)	2.02	8.82	8.31	26.2	34.9
3/1/2022							9.65	27.5
3/2/2022			1.48			9.23		
3/3/2022	3.56 (U)	8		1.1 (U)	9.1			
9/20/2022						9.35	18.2	30.1
9/21/2022	1.54	4.52	1.23	1.02	5.26			
2/28/2023	2.29				5.48	7.34	12.4	22.6
3/1/2023				2.3				
3/2/2023		8.08	10.1					
9/12/2023	3.43	5.46	3.88	3.18				
9/13/2023					4.44		27.3	34.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						4.91		
3/19/2024	2.79				5.64	6.07	11.8	
3/20/2024		2.14	3.27					
3/21/2024				1.25 (U)				23.8
9/10/2024	4.8				4.29			
9/11/2024		3.4	4.32	1.89		9.3	15.5	29.4

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.03 (J)						
8/31/2016					0.93	0.41	0.92	
11/30/2016		0.04 (J)			0.93	0.61	0.99	
2/15/2017		0.007 (J)						
2/16/2017					0.6	0.3 (J)	0.54	
5/31/2017			0.01 (J)					0.85
6/1/2017		<0.1		<0.1				
6/2/2017					0.34	0.19 (J)	0.42	
8/2/2017			0.14 (J)	0.27 (J)				0.69
8/15/2017								0.29 (J)
8/16/2017		0.03 (J)	0.13 (J)					
8/17/2017				0.18 (J)	0.52	0.26 (J)	0.27 (J)	
4/4/2018				<0.1				0.32
4/5/2018			<0.1					
5/8/2018				0.56				0.63
5/9/2018			<0.1					
6/19/2018		<0.1	0.065 (J)					0.17 (J)
6/20/2018				0.033 (J)	0.5	0.22 (J)		
6/21/2018							0.28 (J)	
9/25/2018								0.15 (J)
9/26/2018		0.12 (J)	<0.1					
9/27/2018				0.12 (J)	0.32	0.068 (J)	0.32	
11/6/2018				<0.1			0.086 (J)	<0.1
11/7/2018		<0.1	<0.1		0.35	10.3 (O)		
3/6/2019						<0.1		
3/24/2019					0.32	0.19 (J)	0.14 (J)	
3/25/2019		0.038 (J)	0.039 (J)	0.055 (J)				0.12 (J)
8/27/2019		<0.1		<0.1				
8/28/2019			<0.1		0.36	<0.1	<0.1	0.068 (J)
10/15/2019				0.095 (J)				
10/16/2019		0.046 (J)	0.044 (J)		0.41			0.1 (J)
10/17/2019						<0.1	<0.1	
11/20/2019					0.34		<0.1	
3/26/2020		<0.1						
3/27/2020			<0.1					0.066 (J)
3/28/2020				<0.1	0.34	<0.1	<0.1	
10/12/2020								<0.1
10/13/2020		<0.1	<0.1	<0.1				
10/14/2020						<0.1	<0.1	
10/15/2020	0.11				0.22			
1/4/2021					<0.1			
3/3/2021		<0.1	<0.1					0.082 (J)
3/4/2021	<0.1			<0.1	0.45	<0.1	<0.1	
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022	<0.1				<0.1	<0.1		
3/2/2022		<0.1	<0.1				<0.1	0.097 (J)
3/3/2022				<0.1				
9/20/2022	<0.1					1.1 (J)		
9/21/2022		<0.1	<0.1	<0.1	0.48		0.18	0.11
3/1/2023		<0.1	<0.1	<0.1				0.101
3/2/2023	<0.1				0.388	0.419 (J)	0.44 (J)	
9/12/2023		<0.1			0.374			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/13/2023				0.0941 (J)			0.982 (J)	0.362
9/14/2023	<0.1		<0.1			0.246 (J)		
3/19/2024			<0.1					
3/20/2024		0.0748 (J)		0.0744 (J)				0.206
3/21/2024	<0.1				0.277	0.469 (J)	0.814 (J)	
9/10/2024				0.0749 (J)				0.202
9/11/2024	<0.1	0.0669 (J)	<0.1		0.654		0.692	
9/12/2024						0.392 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.5	0.5		0.04 (J)				
10/25/2016					1.1			
11/30/2016	1.4	0.49		0.18 (J)	1.3			
2/15/2017	1.3	0.58		0.02 (J)	1.3			
5/31/2017	1.2	0.56			1.3			
6/1/2017				0.005 (J)				
6/2/2017			<0.1					
8/2/2017			0.05 (J)					
8/15/2017	1.2				1.2			
8/16/2017		0.45						
8/17/2017			<0.1	0.04 (J)				
4/4/2018			<0.1					
5/8/2018			<0.1					
6/19/2018	0.91	<0.1	0.057 (J)		0.6			
6/20/2018				0.038 (J)				
9/25/2018	1.1	<0.1						
9/26/2018			<0.1	<0.1	0.44 (D)			
11/6/2018		0.084 (J)			0.4			
11/7/2018	<0.1		<0.1	<0.1				
3/24/2019	0.99	0.14 (J)			0.31			
3/25/2019			0.036 (J)	0.041 (J)				
8/26/2019		<0.1						
8/27/2019	1.1		<0.1	<0.1	<0.1			
10/15/2019	1	<0.1	0.14 (J)					
10/16/2019				0.044 (J)	0.083 (J)			
11/7/2019						0.49	<0.1	1.4
11/18/2019						0.52		
11/19/2019							0.033 (J)	1.2
11/21/2019		<0.1			<0.1			
12/4/2019							0.22 (J)	1.4
12/5/2019						0.5		
12/17/2019							<0.1	
12/18/2019						0.33		1.5
1/8/2020							<0.1	<0.1
1/9/2020						0.12 (J)		
1/21/2020						0.13 (J)	0.11 (J)	0.53
2/4/2020						0.18 (J)	<0.1	<0.1
2/13/2020						0.077 (J)	<0.1	<0.1
3/27/2020	1.1	<0.1	<0.1	<0.1	<0.1	0.06 (J)	<0.1	<0.1
10/12/2020	1.2					0.34		
10/13/2020		<0.1	<0.1	<0.1	<0.1		<0.1	<0.1
3/2/2021	1	<0.1	<0.1					
3/3/2021				<0.1	0.58 (J)	0.32	<0.1	<0.1
7/1/2021		<0.1						
9/13/2021	1.4	<0.1						
9/14/2021			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022							<0.1	<0.1
3/2/2022			<0.1			<0.1		
3/3/2022	0.95	<0.1		<0.1	<0.1			
9/20/2022						0.61 (J)	<0.1	4.3 (JO)
9/21/2022	1.3	0.12	<0.1	<0.1	0.78			
2/28/2023	1.21				0.815	0.407 (J)	0.38 (J)	3.32

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				0.0397 (J)				
3/2/2023		0.188 (J)	0.0397 (J)					
9/12/2023	1.32	<0.1	<0.1	<0.1				
9/13/2023					1.46		<0.1	3.98
9/14/2023						0.251 (J)		
3/19/2024	1.34				0.959 (J)	0.702	1.2 (J)	
3/20/2024		0.294 (J)	<0.1					
3/21/2024				0.0585 (J)				3.79
9/10/2024	1.67				0.986 (J)			
9/11/2024		0.164 (J)	<0.1	<0.1		0.267	0.743 (J)	2.83

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					<0.005	<0.005	<0.005	
11/30/2016		<0.005			0.0002 (J)	<0.005	<0.005	
2/15/2017		<0.005						
2/16/2017					<0.005	<0.005	0.0002 (J)	
5/31/2017			<0.005					<0.005
6/1/2017		<0.005		<0.005				
6/2/2017					<0.005	<0.005	<0.005	
8/2/2017			0.0001 (J)	<0.005				<0.005
8/15/2017								<0.005
8/16/2017		<0.005	<0.005					
8/17/2017				<0.005	<0.005	<0.005	8E-05 (J)	
4/4/2018				<0.005				<0.005
4/5/2018			<0.005					
5/8/2018				<0.005				<0.005
5/9/2018			<0.005					
6/19/2018		<0.005	<0.005					<0.005
6/20/2018				<0.005	<0.005	<0.005		
6/21/2018							<0.005	
9/25/2018								<0.005
9/26/2018		<0.005	<0.005					
9/27/2018				<0.005	<0.005	<0.005	<0.005	
11/6/2018				<0.005			<0.005	<0.005
11/7/2018		<0.005	<0.005		<0.005	<0.005		
3/6/2019						<0.005		
3/25/2019								<0.005
8/27/2019		<0.005		<0.005				
8/28/2019			<0.005		<0.005	<0.005	0.0001 (J)	<0.005
10/15/2019				<0.005				
10/16/2019		<0.005	<0.005		<0.005			<0.005
10/17/2019						0.00012 (J)	<0.005	
3/26/2020		<0.005						
3/27/2020			<0.005					<0.005
3/28/2020				<0.005	<0.005	<0.005	<0.005	
10/12/2020								<0.005
10/13/2020		<0.005	<0.005	<0.005				
10/14/2020						<0.005	<0.005	
10/15/2020	<0.005				<0.005			
1/4/2021					<0.005			
3/3/2021		<0.005	<0.005					<0.005
3/4/2021	<0.005			<0.005	<0.005	<0.005	<0.005	
9/14/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022	<0.005				<0.005	<0.005		
3/2/2022		<0.005	<0.005				<0.005	<0.005
3/3/2022				<0.005				
9/20/2022	<0.005					<0.005		
9/21/2022		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/1/2023		<0.005	<0.005	<0.005				<0.005
3/2/2023	<0.005				<0.005	<0.005	<0.005	
9/12/2023		<0.005			<0.005			
9/13/2023				<0.005			<0.005	<0.005
9/14/2023	<0.005		<0.005			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			<0.005					
3/20/2024		<0.005		<0.005				<0.005
3/21/2024	<0.005				<0.005	<0.005	<0.005	
9/10/2024				<0.005				<0.005
9/11/2024	<0.005	<0.005	<0.005		<0.005		<0.005	
9/12/2024						<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0001 (J)	<0.005		<0.005				
10/25/2016					<0.005			
11/30/2016	<0.005	<0.005		0.0002 (J)	<0.005			
2/15/2017	<0.005	<0.005		<0.005	<0.005			
5/31/2017	9E-05 (J)	<0.005			<0.005			
6/1/2017				<0.005				
6/2/2017			<0.005					
8/2/2017			0.0001 (J)					
8/15/2017	<0.005				0.0002 (J)			
8/16/2017		8E-05 (J)						
8/17/2017			0.0001 (J)	<0.005				
4/4/2018			<0.005					
5/8/2018			<0.005					
6/19/2018	<0.005	<0.005	<0.005		<0.005			
6/20/2018				<0.005				
9/25/2018	<0.005	<0.005						
9/26/2018			<0.005	<0.005	<0.005			
11/6/2018		<0.005			<0.005			
11/7/2018	<0.005		<0.005	<0.005				
8/26/2019		<0.005						
8/27/2019	0.00022 (J)		0.00011 (J)	<0.005	0.00014 (J)			
10/15/2019	5.6E-05 (J)	<0.005	0.00038 (J)					
10/16/2019				<0.005	0.00034 (J)			
11/7/2019						<0.005	0.00063 (J)	0.0019 (J)
11/18/2019						<0.005		
11/19/2019							<0.005	0.0013 (J)
12/4/2019							5.3E-05 (J)	0.00045 (J)
12/5/2019						<0.005		
12/17/2019							<0.005	
12/18/2019						<0.005		0.00023 (J)
1/8/2020							<0.005	0.00029 (J)
1/9/2020						<0.005		
1/21/2020						<0.005	<0.005	0.00033 (J)
2/4/2020						<0.005	<0.005	<0.005
2/13/2020						<0.005	<0.025 (O)	0.00023 (J)
3/27/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/2/2021	<0.005	<0.005	<0.005					
3/3/2021				<0.005	<0.005	<0.005	<0.005	<0.005
9/13/2021	<0.005	<0.005						
9/14/2021			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022							<0.005	<0.005
3/2/2022			<0.005			<0.005		
3/3/2022	<0.005	<0.005		<0.005	<0.005			
9/20/2022						<0.005	<0.005	<0.005
9/21/2022	0.00083 (J)	<0.005	0.00092 (J)	<0.005	<0.005			
2/28/2023	<0.005				<0.005	<0.005	<0.005	<0.005
3/1/2023				<0.005				
3/2/2023		<0.005	<0.005					
9/12/2023	<0.005	<0.005	<0.005	0.000563 (J)				
9/13/2023					<0.005		<0.005	0.000678 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						<0.005		
3/19/2024	<0.005				<0.005	<0.005	<0.005	
3/20/2024		<0.005	<0.005					
3/21/2024				<0.005				<0.005
9/10/2024	<0.005				<0.005			
9/11/2024		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.025						
8/31/2016					0.0219 (J)	0.0389 (J)	0.0122 (J)	
11/30/2016		<0.025			0.0333 (J)	0.0303 (J)	0.011 (J)	
2/15/2017		<0.025						
2/16/2017					0.0376 (J)	0.05 (J)	0.0142 (J)	
5/31/2017			<0.025					0.0047 (J)
6/1/2017		<0.025		<0.025				
6/2/2017					0.0346 (J)	0.0477 (J)	0.0229 (J)	
8/2/2017			<0.025	<0.025				0.0036 (J)
8/15/2017								<0.025
8/16/2017		<0.025	<0.025					
8/17/2017				<0.025	0.0367 (J)	0.0645	0.0241 (J)	
4/4/2018				0.0013 (J)				0.0041 (J)
4/5/2018			<0.025					
5/8/2018				0.0012 (J)				0.0052 (J)
5/9/2018			<0.025					
6/19/2018		<0.025	<0.025					0.0017 (J)
6/20/2018				0.0015 (J)	0.034 (J)	0.066 (J)		
6/21/2018							0.03 (J)	
9/25/2018								0.0018 (J)
9/26/2018		<0.025	<0.025					
9/27/2018				0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)	
11/6/2018				0.0038 (J)			0.037 (J)	<0.025
11/7/2018		<0.025	<0.025		0.022 (J)	0.11		
3/6/2019						0.12		
8/27/2019		<0.025		0.002 (J)				
8/28/2019			<0.025		0.023 (J)	0.13	0.12	0.00082 (J)
10/15/2019				0.0019 (J)				
10/16/2019		<0.025	<0.025		0.021 (J)			<0.025
10/17/2019						0.12	0.096	
11/20/2019							0.12	
3/26/2020		<0.025						
3/27/2020			<0.025					<0.025
3/28/2020	0.078			<0.025	0.014 (J)	0.064	0.027 (J)	
6/16/2020	0.096 (J)					0.12 (J)	0.049 (J)	
10/12/2020								<0.025
10/13/2020		<0.025	<0.025	<0.025				
10/14/2020						0.11	0.039 (J)	
10/15/2020	0.093				0.57			
1/4/2021					0.043 (J)			
3/3/2021		<0.025	<0.025					<0.025
3/4/2021	0.094 (J)			<0.025	0.017 (J)	0.096 (J)	0.035 (J)	
9/14/2021	0.092	<0.025	<0.025	<0.025	0.042 (J)	0.084	0.035 (J)	0.0033 (J)
3/1/2022	0.088 (J)				0.028 (J)	0.074		
3/2/2022		0.00064 (J)	<0.025				0.022 (J)	0.0026
3/3/2022				0.0017 (J)				
9/20/2022	<0.025					0.043		
9/21/2022		<0.025	<0.025	<0.025	0.018 (J)		0.02 (J)	<0.025
3/1/2023		<0.025	<0.025	<0.025				<0.025
3/2/2023	0.0919				0.0237 (J)	0.0361 (J)	0.0217 (J)	
9/12/2023		<0.025			0.0301			
9/13/2023				<0.025			0.027	0.00978 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/14/2023	0.087		<0.025			0.0551		
3/19/2024			<0.025					
3/20/2024		<0.025		<0.025				<0.025
3/21/2024	0.08				0.0329	0.0458	0.0135	
9/10/2024				<0.025				<0.025
9/11/2024	0.0667	<0.025	<0.025		0.029		0.0147	
9/12/2024						0.055		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0102 (J)	0.0112 (J)		<0.025				
10/25/2016					0.007 (J)			
11/30/2016	0.0106 (J)	<0.025		<0.025	0.0086 (J)			
2/15/2017	0.0115 (J)	0.0105 (J)		<0.025	0.0149 (J)			
5/31/2017	0.011 (J)	0.0106 (J)			0.019 (J)			
6/1/2017				<0.025				
6/2/2017			<0.025					
8/2/2017			<0.025					
8/15/2017	0.0123 (J)				0.016 (J)			
8/16/2017		0.0145 (J)						
8/17/2017			<0.025	<0.025				
4/4/2018			0.0015 (J)					
5/8/2018			0.0014 (J)					
6/19/2018	0.012 (J)	0.044 (J)	0.0016 (J)		0.021 (J)			
6/20/2018				<0.025				
9/25/2018	0.011 (J)	0.041 (J)						
9/26/2018			0.0018 (J)	<0.025	0.02 (J)			
11/6/2018		0.047 (J)			0.017 (J)			
11/7/2018	0.013 (J)		<0.025	<0.025				
8/26/2019		0.059						
8/27/2019	0.012 (J)		0.002 (J)	<0.025	0.023 (J)			
10/15/2019	0.012 (J)	0.056 (J)	0.0016 (J)					
10/16/2019				<0.025	0.024 (J)			
11/7/2019						0.0055 (J)	0.015 (J)	0.026 (J)
11/18/2019						<0.1 (O)		
11/19/2019							0.02 (J)	0.023 (J)
11/21/2019		0.052						
12/4/2019							0.016 (J)	0.019 (J)
12/5/2019						0.0042 (J)		
12/17/2019							0.018 (J)	
12/18/2019						0.0045 (J)		0.02 (J)
1/8/2020							0.022 (J)	0.024 (J)
1/9/2020						0.0041 (J)		
1/21/2020						<0.15 (O)	0.018 (J)	0.022 (J)
2/4/2020						<0.3 (O)	0.02 (J)	0.024 (J)
2/13/2020						0.004 (J)	0.018 (J)	0.021 (J)
3/27/2020	<0.025	0.052	<0.025	<0.025	0.033 (J)	<0.025	0.018 (J)	0.024 (J)
10/12/2020	0.011 (J)					<0.025		
10/13/2020		0.046 (J)	<0.025	<0.025	0.028 (J)		0.022 (J)	0.025 (J)
3/2/2021	<0.025	0.046 (J)	<0.025					
3/3/2021				<0.025	<0.025	<0.025	0.019 (J)	0.018 (J)
7/1/2021		<0.025						
9/13/2021	0.01 (J)	0.047						
9/14/2021			<0.025	<0.025	0.035 (J)	<0.025	0.011 (J)	0.02 (J)
3/1/2022							<0.025	0.02 (J)
3/2/2022			0.0017 (J)			<0.025		
3/3/2022	<0.025	0.037 (J)		0.00061 (J)	0.02 (J)			
9/20/2022						<0.025	0.014 (J)	0.029
9/21/2022	0.0075 (J)	0.028	<0.025	<0.025	0.023 (J)			
2/28/2023	0.0104 (J)				0.0257 (J)	0.00327 (J)	0.019 (J)	0.0221 (J)
3/1/2023				<0.025				
3/2/2023		0.0218 (J)	<0.025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.0115	0.0222	<0.025	<0.025				
9/13/2023					0.037		0.0415	0.0493
9/14/2023						0.00366 (J)		
3/19/2024	0.0104				0.0223	<0.025	0.0201 (J)	
3/20/2024		0.0208	<0.025					
3/21/2024				<0.025				0.0206 (J)
9/10/2024	0.00967 (J)				0.0211			
9/11/2024		0.0204	<0.025	<0.025		<0.025	0.02	0.0201

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0002						
8/31/2016					<0.0002	<0.0002	<0.0002	
11/30/2016		<0.0002			<0.0002	<0.0002	<0.0002	
2/15/2017		<0.0002						
2/16/2017					<0.0002	<0.0002	<0.0002	
5/31/2017			<0.0002					<0.0002
6/1/2017		<0.0002		<0.0002				
6/2/2017					4.2E-05 (J)	<0.0002	<0.0002	
8/2/2017			<0.0002	<0.0002				<0.0002
8/15/2017								<0.0002
8/16/2017		<0.0002	<0.0002					
8/17/2017				<0.0002	<0.0002	<0.0002	<0.0002	
4/4/2018				<0.0002				<0.0002
4/5/2018			<0.0002					
5/8/2018				<0.0002				<0.0002
5/9/2018			<0.0002					
6/19/2018		<0.0002	<0.0002					<0.0002
6/20/2018				<0.0002	<0.0002	<0.0002		
6/21/2018							<0.0002	
9/25/2018								<0.0002
9/26/2018		<0.0002	<0.0002					
9/27/2018				<0.0002	<0.0002	<0.0002	<0.0002	
11/6/2018				0.00071			0.00067	0.0007
11/7/2018		<0.0002	<0.0002		<0.0002	<0.0002		
3/6/2019						<0.0002		
8/27/2019		<0.0002		<0.0002				
8/28/2019			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
10/15/2019				<0.0002				
10/16/2019		<0.0002	<0.0002		<0.0002			<0.0002
10/17/2019						<0.0002	<0.0002	
3/26/2020		<0.0002						
3/27/2020			<0.0002					<0.0002
3/28/2020				<0.0002	<0.0002	<0.0002	<0.0002	
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00016 (J)	<0.0002	<0.0002
3/1/2022	<0.0002				<0.0002	<0.0002		
3/2/2022		<0.0002	<0.0002				<0.0002	<0.0002
3/3/2022				<0.0002				
9/20/2022	<0.0002					<0.0002		
9/21/2022		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/1/2023		<0.0002	<0.0002	<0.0002				<0.0002
3/2/2023	<0.0002				<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002			
9/13/2023				<0.0002			<0.0002	<0.0002
9/14/2023	<0.0002		<0.0002			<0.0002		
3/19/2024			<0.0002					
3/20/2024		<0.0002		<0.0002				<0.0002
3/21/2024	<0.0002				<0.0002	<0.0002	<0.0002	
9/10/2024				<0.0002				<0.0002
9/11/2024	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002	
9/12/2024						<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0002	<0.0002		<0.0002				
10/25/2016					<0.0002			
11/30/2016	<0.0002	<0.0002		<0.0002	<0.0002			
2/15/2017	<0.0002	<0.0002		<0.0002	<0.0002			
5/31/2017	<0.0002	<0.0002			<0.0002			
6/1/2017				<0.0002				
6/2/2017			<0.0002					
8/2/2017			<0.0002					
8/15/2017	<0.0002				<0.0002			
8/16/2017		<0.0002						
8/17/2017			<0.0002	<0.0002				
4/4/2018			<0.0002					
5/8/2018			<0.0002					
6/19/2018	<0.0002	<0.0002	<0.0002		<0.0002			
6/20/2018				<0.0002				
9/25/2018	<0.0002	<0.0002						
9/26/2018			<0.0002	<0.0002	<0.0002			
11/6/2018		0.00066			0.00064			
11/7/2018	<0.0002		<0.0002	<0.0002				
8/26/2019		<0.0002						
8/27/2019	<0.0002		<0.0002	<0.0002	<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002					
10/16/2019				<0.0002	<0.0002			
11/7/2019						<0.0002	<0.0002	<0.0002
11/18/2019						<0.0002		
11/19/2019							<0.0002	<0.0002
12/4/2019							<0.0002	<0.0002
12/5/2019						<0.0002		
12/17/2019							<0.0002	
12/18/2019						<0.0002		<0.0002
1/8/2020							<0.0002	<0.0002
1/9/2020						<0.0002		
1/21/2020						<0.0002	<0.0002	<0.0002
2/4/2020						<0.0002	<0.0002	<0.0002
2/13/2020						<0.0002	<0.0002	<0.0002
3/27/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/13/2021	<0.0002	<0.0002						
9/14/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2022							<0.0002	<0.0002
3/2/2022			<0.0002			<0.0002		
3/3/2022	<0.0002	<0.0002		<0.0002	<0.0002			
9/20/2022						<0.0002	<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/28/2023	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
3/1/2023				<0.0002				
3/2/2023		<0.0002	<0.0002					
9/12/2023	<0.0002	<0.0002	<0.0002	<0.0002				
9/13/2023					<0.0002		<0.0002	<0.0002
9/14/2023						<0.0002		
3/19/2024	<0.0002				<0.0002	<0.0002	8.7E-05 (J)	
3/20/2024		<0.0002	<0.0002					
3/21/2024				<0.0002				0.000162 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.0002				<0.0002			
9/11/2024		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.01						
8/31/2016					<0.01	<0.01	<0.01	
11/30/2016		<0.01			<0.01	<0.01	<0.01	
2/15/2017		<0.01						
2/16/2017					<0.01	<0.01	<0.01	
5/31/2017			<0.01					<0.01
6/1/2017		<0.01		<0.01				
6/2/2017					<0.01	<0.01	<0.01	
8/2/2017			<0.01	<0.01				<0.01
8/15/2017								<0.01
8/16/2017		<0.01	<0.01					
8/17/2017				<0.01	0.0012 (J)	0.0025 (J)	<0.01	
4/4/2018				<0.01				<0.01
4/5/2018			<0.01					
5/8/2018				<0.01				<0.01
5/9/2018			<0.01					
6/19/2018		<0.01	<0.01					<0.01
6/20/2018				<0.01	<0.01	<0.01		
6/21/2018							<0.01	
9/25/2018								<0.01
9/26/2018		<0.01	<0.01					
9/27/2018				<0.01	<0.01	<0.01	<0.01	
11/6/2018				<0.01			<0.01	<0.01
11/7/2018		<0.01	<0.01		<0.01	0.0024 (J)		
3/6/2019						<0.01		
8/27/2019		<0.01		<0.01				
8/28/2019			<0.01		<0.01	0.0017 (J)	<0.01	<0.01
10/15/2019				<0.01				
10/16/2019		<0.01	<0.01		<0.01			<0.01
10/17/2019						0.0017 (J)	<0.01	
3/26/2020		<0.01						
3/27/2020			<0.01					<0.01
3/28/2020				<0.01	<0.01	<0.01	<0.01	
9/14/2021	<0.01	<0.01	0.0008 (J)	<0.01	0.0099 (J)	<0.01	<0.01	<0.01
3/1/2022	<0.01				<0.01	<0.01		
3/2/2022		<0.01	<0.01				<0.01	<0.01
3/3/2022				0.00015 (J)				
9/20/2022	<0.01					0.0013 (J)		
9/21/2022		<0.01	<0.01	<0.01	0.00095 (J)		0.00095 (J)	<0.01
3/1/2023		0.000258 (J)	<0.01	<0.01				<0.01
3/2/2023	0.000245 (J)				0.000852 (J)	0.00131 (J)	0.000963 (J)	
9/12/2023		<0.01			0.000809 (J)			
9/13/2023				<0.01			0.000847 (J)	<0.01
9/14/2023	<0.01		<0.01			0.000839 (J)		
3/19/2024			0.000259 (J)					
3/20/2024		<0.01		<0.01				<0.01
3/21/2024	<0.01				0.000936 (J)	0.000983 (J)	0.00146 (J)	
9/10/2024				<0.01				<0.01
9/11/2024	0.000217 (J)	<0.01	<0.01		0.00113		0.000949 (J)	
9/12/2024						0.000895 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01	<0.01		<0.01				
10/25/2016					<0.01			
11/30/2016	<0.01	<0.01		<0.01	<0.01			
2/15/2017	<0.01	<0.01		<0.01	<0.01			
5/31/2017	<0.01	<0.01			<0.01			
6/1/2017				<0.01				
6/2/2017			<0.01					
8/2/2017			<0.01					
8/15/2017	<0.01				<0.01			
8/16/2017		<0.01						
8/17/2017			<0.01	<0.01				
4/4/2018			<0.01					
5/8/2018			0.002 (J)					
6/19/2018	<0.01	<0.01	<0.01		<0.01			
6/20/2018				<0.01				
9/25/2018	<0.01	<0.01						
9/26/2018			<0.01	<0.01	<0.01			
11/6/2018		<0.01			<0.01			
11/7/2018	<0.01		<0.01	<0.01				
8/26/2019		<0.01						
8/27/2019	<0.01		<0.01	<0.01	<0.01			
10/15/2019	<0.01	<0.01	<0.01					
10/16/2019				<0.01	<0.01			
11/7/2019						<0.01	<0.01	<0.01
11/18/2019						<0.01		
11/19/2019							<0.01	<0.01
12/4/2019							<0.01	<0.01
12/5/2019						<0.01		
12/17/2019							<0.01	
12/18/2019						<0.01		<0.01
1/8/2020							<0.01	<0.01
1/9/2020						<0.01		
1/21/2020						<0.01	<0.01	<0.01
2/4/2020						<0.01	<0.01	<0.01
2/13/2020						<0.01	<0.01	<0.01
3/27/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/13/2021	<0.01	<0.01						
9/14/2021			0.0009 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022							<0.01	<0.01
3/2/2022			0.00078 (J)			<0.01		
3/3/2022	<0.01	<0.01		0.00021 (J)	<0.01			
9/20/2022						<0.01	<0.01	<0.01
9/21/2022	<0.01	<0.01	0.00094 (J)	<0.01	<0.01			
2/28/2023	0.000362 (J)				0.000313 (J)	<0.01	<0.01	<0.01
3/1/2023				0.000517 (J)				
3/2/2023		<0.01	0.00133 (J)					
9/12/2023	0.000423 (J)	<0.01	0.00141	0.00023 (J)				
9/13/2023					0.000217 (J)		<0.01	<0.01
9/14/2023						<0.01		
3/19/2024	0.00055 (J)				0.00102 (J)	<0.01	<0.01	
3/20/2024		<0.01	0.000738 (J)					
3/21/2024				<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	0.000276 (J)				<0.01			
9/11/2024		<0.01	0.00123	<0.01		<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		5.66						
8/31/2016					6.93	7.21	6.66	
11/30/2016		5.36			6.77	7.23	6.69	
2/15/2017		5.25						
2/16/2017					6.89	7.27	6.72	
5/31/2017			5.06					5.29
6/1/2017		5.59		5.68				
6/2/2017					6.83	7.18	6.53	
8/2/2017			5	5.2				5.19
8/15/2017								5.19
8/16/2017		5.58	4.98					
8/17/2017				5.31	6.76	7.15	6.28	
4/4/2018				4.74				5.19
4/5/2018			5.02					
5/8/2018				4.78				5.3
5/9/2018			4.96					
6/19/2018		5.51	5.02					5.15
6/20/2018				4.79	6.83	7.19		
6/21/2018							6.45	
9/25/2018								5.13
9/26/2018		5.32	5.06					
9/27/2018				5.14	6.64	7.21	6.48	
11/6/2018				4.9			6.18	5.08
11/7/2018		5.72	5.03		6.6	6.91		
3/24/2019					6.61	6.98	6.39	
3/25/2019		5.75	5.08	4.93				5.05
8/27/2019		5.58		5.05				
8/28/2019			4.99		6.69	6.87	6.35	4.87
10/15/2019				4.89				
10/16/2019		5.72	4.98		6.64			5.05
10/17/2019						6.86	6.4	
11/19/2019			5.11					
11/20/2019		5.77		5.03	6.58		6.27	
3/26/2020		5.45						
3/27/2020			5.12					5.09
3/28/2020	7.11			5.27	6.6	6.8	6.35	
6/16/2020	7.22					6.87	6.33	
10/12/2020								5
10/13/2020		5.69	5.03	5.25				
10/14/2020						6.93	6.32	
10/15/2020	7.08				6.52			
1/4/2021					6.66			
3/3/2021		5.81	5.06					5.37
3/4/2021	7.21			5.31	6.52	6.94	6.33	
9/14/2021	7.11	5.13	5.04	5.09	6.67	6.94	6.28	5.5
3/1/2022	7.08				6.87	7.24		
3/2/2022		5.32	5.16				6.41	5.11
3/3/2022				4.98				
6/28/2022	7.09					7.28		
9/20/2022	7.07					7.29		
9/21/2022		4.95	5.14	5.34	6.93		6.27	4.97
3/1/2023		4.91	5.1 (D)	4.93				4.78

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/2/2023	7.12				6.55	7.38	6.28	
9/12/2023		4.54			6.81			
9/13/2023				5.29			6.53	4.92
9/14/2023	6.95		5.02			7.3		
3/19/2024			4.62					
3/20/2024		5.04		4.41				4.18
3/21/2024	7.21				6.66	7.02	6.31	
9/10/2024				5.1				5.19
9/11/2024	7.18	5.01	5.43		6.94		6.53	
9/12/2024						7.2		

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	6.49	7.04		5.18				
10/25/2016					6.95			
11/30/2016	6.5	7.13		4.96	6.95			
2/15/2017	6.51	7.02		5.13	6.85			
5/31/2017	6.45	7			6.96			
6/1/2017				4.99				
6/2/2017			5.31					
8/2/2017			5.05					
8/15/2017	6.41				6.99			
8/16/2017		6.88						
8/17/2017			5.52	4.68				
4/4/2018			5.45					
5/8/2018			5.54					
6/19/2018	6.32	6.78	5.6		6.91			
6/20/2018				4.77				
9/25/2018	6.31	6.75						
9/26/2018			5.17	4.65	6.8			
11/6/2018		6.92			5.99			
11/7/2018	6.3		5.47	4.99				
3/24/2019	6.4	6.59	5.4		6.62			
3/25/2019			5.4	5.13				
8/26/2019		6.62						
8/27/2019	6.24		5.35	4.88	6.23			
10/15/2019	6.19	6.58	5.32					
10/16/2019				4.89	6.54			
11/7/2019						4.25	5.21	3.79
11/18/2019						4.12		
11/19/2019							5.15	3.78
11/21/2019		6.67			6.44			
12/4/2019							5.28	3.87
12/5/2019						4.17		
12/17/2019							4.96	
12/18/2019						4.2		3.76
1/8/2020							5.04	3.77
1/9/2020						4.19		
1/21/2020						4.28	5.1	3.73
2/4/2020						4.26	5.15	3.72
2/13/2020						4.2	5.07	3.75
3/27/2020	6.33	6.59	5.3	5.12	6.93	4.34	5.14	3.81
10/12/2020	6.35					4.29		
10/13/2020		6.56	5.02	5.17	6.34		5.04	3.72
3/2/2021	6.34	6.55	5.16					
3/3/2021				5.71	6.58	4.37	5.1	3.76
7/1/2021		6.64						
9/13/2021	6.24	6.3						
9/14/2021			5.39	4.69	6.77	4.28	5.31	3.72
3/1/2022							5.38	3.69
3/2/2022			5.37			4.33		
3/3/2022	6.51	6.49		4.88	6.26			
9/20/2022						4.47	5.14	3.63
9/21/2022	6.3	6.61	5.23	4.91	6.72			
2/28/2023	6.28				6.62	4.42	5.08	3.7 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				4.76				
3/2/2023		6.54 (D)	4.45					
9/12/2023	6.43	6.68	4.4	4.45				
9/13/2023					6.55		5.05	3.67
9/14/2023						4.17		
3/19/2024	6.55				6.38	4.42	4.97	
3/20/2024		6.72	5.23					
3/21/2024				5.1				3.67
9/10/2024	6.44				6.11			
9/11/2024		6.66	4.99	5.41		4.04	4.61	3.58

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					0.002 (J)	0.0015 (J)	0.0021 (J)	
11/30/2016		0.0011 (J)			0.0023 (J)	0.0054 (J)	<0.005	
2/15/2017		<0.005						
2/16/2017					0.002 (J)	0.0022 (J)	0.0025 (J)	
5/31/2017			<0.005					<0.005
6/1/2017		<0.005		<0.005				
6/2/2017					<0.005	<0.005	<0.005	
8/2/2017			<0.005	<0.005				<0.005
8/15/2017								<0.005
8/16/2017		<0.005	<0.005					
8/17/2017				<0.005	<0.005	0.002 (J)	0.0033 (J)	
4/4/2018				<0.005				<0.005
4/5/2018			<0.005					
5/8/2018				<0.005				<0.005
5/9/2018			<0.005					
6/19/2018		<0.005	<0.005					<0.005
6/20/2018				<0.005	<0.005	<0.005		
6/21/2018							<0.005	
9/25/2018								<0.005
9/26/2018		<0.005	<0.005					
9/27/2018				<0.005	<0.005	<0.005	0.0023 (J)	
11/6/2018				0.0025 (J)			0.0048 (J)	<0.005
11/7/2018		<0.005	<0.005		<0.005	0.0075 (J)		
3/6/2019						0.0024 (J)		
3/25/2019								<0.005
8/27/2019		<0.005		<0.005				
8/28/2019			<0.005		<0.005	0.0014 (J)	0.0019 (J)	<0.005
10/15/2019				<0.005				
10/16/2019		<0.005	<0.005		<0.005			<0.005
10/17/2019						0.0066 (J)	0.0049 (J)	
3/26/2020		<0.005						
3/27/2020			<0.005					<0.005
3/28/2020				<0.005	<0.005	<0.005	<0.005	
10/12/2020								<0.005
10/13/2020		<0.005	<0.005	<0.005				
10/14/2020						<0.005	<0.005	
10/15/2020	<0.025				0.0028 (J)			
1/4/2021					<0.005			
3/3/2021		<0.005	<0.005					<0.005
3/4/2021	<0.025			0.00038 (J)	<0.005	<0.005	<0.005	
9/14/2021	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022	<0.025				<0.005	<0.005		
3/2/2022		<0.005	<0.005				<0.005	0.00022 (J)
3/3/2022				0.00012 (J)				
9/20/2022	<0.025					<0.005		
9/21/2022		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/1/2023		<0.005	<0.005	<0.005				<0.005
3/2/2023	0.00205 (J)				<0.005	<0.005	0.00238 (J)	
9/12/2023		<0.005			<0.005			
9/13/2023				<0.005			<0.005	<0.005
9/14/2023	<0.025		<0.005			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			<0.005					
3/20/2024		<0.005		<0.005				<0.005
3/21/2024	<0.025				<0.005	<0.005	<0.005	
9/10/2024				<0.005				<0.005
9/11/2024	0.00176 (J)	<0.005	<0.005		<0.005		<0.005	
9/12/2024						<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0011 (J)	<0.005		<0.005				
10/25/2016					0.003 (J)			
11/30/2016	0.0023 (J)	<0.005		0.0011 (J)	0.0087 (J)			
2/15/2017	0.0021 (J)	0.0014 (J)		<0.005	0.0067 (J)			
5/31/2017	<0.005	<0.005			0.0018 (J)			
6/1/2017				<0.005				
6/2/2017			<0.005					
8/2/2017			<0.005					
8/15/2017	0.0021 (J)				0.0025 (J)			
8/16/2017		0.0018 (J)						
8/17/2017			<0.005	<0.005				
4/4/2018			<0.005					
5/8/2018			0.0016 (J)					
6/19/2018	0.0017 (J)	<0.005	0.0022 (J)		<0.005			
6/20/2018				<0.005				
9/25/2018	0.002 (J)	0.0019 (J)						
9/26/2018			0.0015 (J)	<0.005	0.0016 (J)			
11/6/2018		0.0057 (J)			<0.005			
11/7/2018	<0.005		<0.005	<0.005				
8/26/2019		0.0025 (J)						
8/27/2019	0.0019 (J)		0.0018 (J)	<0.005	0.0018 (J)			
10/15/2019	<0.005	0.003 (J)	<0.005					
10/16/2019				<0.005	<0.005			
11/7/2019						0.036	0.063	0.12
11/18/2019						<0.1		
11/19/2019							0.039 (J)	0.047 (J)
12/4/2019							0.12	0.11
12/5/2019						0.032		
12/17/2019							0.031 (J)	
12/18/2019						0.01		0.032 (J)
1/8/2020							0.066	0.044 (J)
1/9/2020						0.01		
1/21/2020						0.023 (J)	0.13	0.089
2/4/2020						0.017 (J)	0.065 (J)	0.049 (J)
2/13/2020						0.015	0.15	0.11
3/27/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	0.013	0.012
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	<0.005	<0.005	<0.005		0.0076 (J)	0.0056 (J)
3/2/2021	<0.005	<0.005	<0.005					
3/3/2021				<0.005	<0.005	0.0012 (J)	0.013 (J)	0.0094 (J)
9/13/2021	<0.005	<0.005						
9/14/2021			<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0018 (J)
3/1/2022							<0.04	0.0058 (J)
3/2/2022			0.00028 (J)			<0.005		
3/3/2022	<0.005	<0.005		<0.005	<0.005			
9/20/2022						<0.005	0.0046 (J)	0.0027 (J)
9/21/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/28/2023	0.00157 (J)				0.00184 (J)	0.00583 (J)	0.034 (J)	0.0225 (J)
3/1/2023				<0.005				
3/2/2023		<0.005	<0.005					
9/12/2023	<0.005	<0.005	<0.005	<0.005				
9/13/2023					<0.005		0.0237	0.0182

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.00948		
3/19/2024	<0.005				<0.005	0.00456 (J)	0.0492	
3/20/2024		<0.005	<0.005					
3/21/2024				<0.005				0.0249 (J)
9/10/2024	<0.005				<0.005			
9/11/2024		<0.005	<0.005	<0.005		0.0044 (J)	0.0469	0.0212

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		17						
8/31/2016					37	21	290	
11/30/2016		33			63	19	240	
2/15/2017		83						
2/16/2017					90	22	220	
5/31/2017			46					40
6/1/2017		51		42				
6/2/2017					210	28	500	
8/2/2017			43	120				34
8/15/2017								24
8/16/2017		36	41					
8/17/2017				110	80	69	510	
4/4/2018				70.6				33.9
4/5/2018			33.4					
5/8/2018				61.4				35.7
5/9/2018			36					
6/19/2018		50.3	35.5					23.7
6/20/2018				25.3	46 (J)	33		
6/21/2018							481	
9/25/2018								25.6
9/26/2018		54.1	39.6					
9/27/2018				63.4	58.5 (J)	29.4	777	
11/6/2018				136			926	25.2
11/7/2018		45.6	35.8		41.3 (J)	734		
3/6/2019						1220 (J)		
3/24/2019					131	413	1070	
3/25/2019		43	34.2	137				24.9
10/15/2019				105				
10/16/2019		31.9	24.4		252			17.4
10/17/2019						507	1230	
11/20/2019					132		1550	
3/26/2020		36.2						
3/27/2020			28.6					23.4
3/28/2020				86.6	63.8	701	1090	
4/23/2020	936					552		
6/16/2020	970					663	961	
10/12/2020								19.3
10/13/2020		32.3	27.6	92.3				
10/14/2020						531 (D)	938	
10/15/2020	1060				147			
1/4/2021					262			
3/3/2021		33.8	27.6					19.9
3/4/2021	1060			99.1	82.2	596	982	
9/14/2021	971	34.2	30.4	96.2	459	490	819	33.1
3/1/2022	755				143	440		
3/2/2022		30.8	25.7				702	19.5
3/3/2022				50.6				
6/28/2022	553					213		
9/20/2022	820					320		
9/21/2022		39	29	52	100		660	23
3/1/2023		45.3	27.4	44.2				21.4
3/2/2023	859				84.2	157	640	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/12/2023		47.5			139			
9/13/2023				27.1			620	42
9/14/2023	767		28.8			263		
3/19/2024			28					
3/20/2024		45.4		73.7				34.5
3/21/2024	799				189	189	360	
9/10/2024				103				24.3
9/11/2024	752	42.1	26.2		148		296	
9/12/2024						271		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	4.3	6.4		24				
10/25/2016					84			
11/30/2016	7.6	4.5		26	52			
2/15/2017	3	37		30	190			
5/31/2017	2.5	61			260			
6/1/2017				24				
6/2/2017			13					
8/2/2017			14					
8/15/2017	3.2				210			
8/16/2017		130						
8/17/2017			14	26				
4/4/2018			13.4					
5/8/2018			14.8					
6/19/2018	1.6	498	15.5		218			
6/20/2018				31.2				
9/25/2018	1	790						
9/26/2018			23	36.8	333 (D)			
11/6/2018		875			182			
11/7/2018	0.41 (J)		22.2	35				
3/24/2019	1.5	1170			413			
3/25/2019			22.4	40.1				
10/15/2019	0.54 (J)	<1	17.9					
10/16/2019				28.5	453			
11/7/2019						379	832	1010
11/18/2019						737		
11/19/2019							795	1140
11/21/2019		1070			428			
12/4/2019							810	1020
12/5/2019						351		
12/17/2019							535	
12/18/2019						274		444 (J)
1/8/2020							603	747
1/9/2020						254		
1/21/2020						254	611	798
2/4/2020						432	599	1120
2/13/2020						300	761	833
3/27/2020	<5	899	14.6	31.2	504	219	836	700
10/12/2020	<5					191		
10/13/2020		695	7.6	26.8	378		609	638
10/14/2020		682						
3/2/2021	1.2	677	8					
3/3/2021				30.5	420	171	708	743
7/1/2021		693						
9/13/2021	<5	680						
9/14/2021			16.7	24.4	460	134	995	659
3/1/2022							158	543
3/2/2022			16			186		
3/3/2022	<5	754		20.4	324			
9/20/2022						160	740	750
9/21/2022	<5	270	6.3	24	330			
2/28/2023	1.33				334	186	820	950
3/1/2023				25.8				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		252	8.12					
9/12/2023	1.18	160	6.48	25.2				
9/13/2023					300		1300	832
9/14/2023						165		
3/19/2024	1.7				312	167	810	
3/20/2024		207	12.3					
3/21/2024				29.4				1190
9/10/2024	0.462				323			
9/11/2024		180	5.75	23.2		149	781	852

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		86						
8/31/2016					3620	4160	5100	
11/30/2016		131			4030	3950	4680	
2/15/2017		212						
2/16/2017					4080	4600	5080	
5/31/2017			123					257
6/1/2017		103		97				
6/2/2017					5560	4470	8000	
8/2/2017			136	538				183
8/15/2017								90
8/16/2017		65	124					
8/17/2017				445	4620	5450	8320	
4/4/2018				365				197
4/5/2018			128					
5/8/2018				304				225
5/9/2018			127					
6/19/2018		142	143					112
6/20/2018				114	3370	4940		
6/21/2018							7500	
9/25/2018								137
9/26/2018		133	132					
9/27/2018				255	2360	4480	10200	
11/6/2018				388			11000	89
11/7/2018		121	134		2230	15100		
3/6/2019						19000		
3/24/2019					1450	13700	13700	
3/25/2019		116	111	327				74
10/15/2019				237				
10/16/2019		104	96		2860			82
10/17/2019						16100	13200	
11/20/2019					2640		16700	
3/26/2020		114						
3/27/2020			119					87
3/28/2020				284	1470	18800	18300	
6/16/2020	20100					17800	17900	
10/12/2020								94
10/13/2020		113	118	<25				
10/14/2020						15200	18400	
10/15/2020	19300				5100			
1/4/2021					7750			
3/3/2021		99	84					66
3/4/2021	19000			285	1700	14200	17100	
9/14/2021	16400	66	76	193	8020	11800	13400	191
3/1/2022	15600				3780	9040		
3/2/2022		97	94				12600	124
3/3/2022				146				
6/28/2022	15400					6140		
9/20/2022	13000					3900		
9/21/2022		100	90	180	2100		9400	110
3/1/2023		78	73	142				67
3/2/2023	12300				1710	3120	10500	
9/12/2023		80			2940			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/13/2023				51			7440	274
9/14/2023	10600		76			4240		
3/19/2024			50					
3/20/2024		84		255				137
3/21/2024	9680				3320	3820	6050	
9/10/2024				316				79
9/11/2024	8970	70	64		3020		4640	
9/12/2024						5340		

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1910	1310		99				
10/25/2016					2900			
11/30/2016	1910	1050		111	3970			
2/15/2017	1870	1440		170	3820			
5/31/2017	1920	1740			5050			
6/1/2017				98				
6/2/2017			69					
8/2/2017			35					
8/15/2017	1840				4820			
8/16/2017		3010						
8/17/2017			51	84				
4/4/2018			90					
5/8/2018			89					
6/19/2018	1820	8630	110		5640			
6/20/2018				123				
9/25/2018	1760	10700						
9/26/2018			124	117	6770 (D)			
11/6/2018		11100			4160			
11/7/2018	1800		125	120				
3/24/2019	1770	14200			6840			
3/25/2019			98	101				
10/15/2019	1730	15400	107					
10/16/2019				95	7740			
11/7/2019						4140	10900	13500
11/18/2019						4030		
11/19/2019							10000	13300
11/21/2019		15800			7720			
12/4/2019							11000	13200
12/5/2019						3840		
12/17/2019							9860	
12/18/2019						3880		12500
1/8/2020							9760	12300
1/9/2020						3520		
1/21/2020						3280	10100	12000
2/4/2020						3220	10600	12300
2/13/2020						3580	10900	12400
3/27/2020	1970	16400	110	110	10200	3090	14300	14600
10/12/2020	1560					2920		
10/13/2020		15600	63	115	8750		6600	13900
3/2/2021	1430	12000	40					
3/3/2021				122	8830	2620	11000	11400
7/1/2021		11200						
9/13/2021	1450	11400						
9/14/2021			96	<25	8820	2190	14600	10300
3/1/2022							4050	10500
3/2/2022			103			3100		
3/3/2022	1400	11500		104	8120			
9/20/2022						2000	10000	8600
9/21/2022	1300	7400	38	78	6200			
2/28/2023	1290				6810	2090	10400	8720
3/1/2023				56				
3/2/2023		3280	35					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	1230	2720	20	42				
9/13/2023					6310		15500	10300
9/14/2023						2040		
3/19/2024	1210				5920	1960	9800	
3/20/2024		2480	65					
3/21/2024				51				7330
9/10/2024	1230				5490			
9/11/2024		2480	28	54		1530	9180	8630

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.002						
8/31/2016					<0.002	<0.002	<0.002	
11/30/2016		<0.002			<0.002	<0.002	<0.002	
2/15/2017		<0.002						
2/16/2017					<0.002	<0.002	<0.002	
5/31/2017			<0.002					<0.002
6/1/2017		<0.002		<0.002				
6/2/2017					<0.002	<0.002	<0.002	
8/2/2017			<0.002	<0.002				<0.002
8/15/2017								<0.002
8/16/2017		<0.002	<0.002					
8/17/2017				<0.002	<0.002	<0.002	<0.002	
4/4/2018				<0.002				<0.002
4/5/2018			<0.002					
5/8/2018				<0.002				<0.002
5/9/2018			<0.002					
6/19/2018		<0.002	<0.002					<0.002
6/20/2018				<0.002	<0.002	<0.002		
6/21/2018							<0.002	
9/25/2018								<0.002
9/26/2018		<0.002	<0.002					
9/27/2018				<0.002	<0.002	<0.002	<0.002	
11/6/2018				<0.002			<0.002	<0.002
11/7/2018		<0.002	<0.002		<0.002	<0.002		
3/6/2019						<0.002		
8/27/2019		<0.002		<0.002				
8/28/2019			<0.002		<0.002	<0.002	<0.002	<0.002
10/15/2019				<0.002				
10/16/2019		<0.002	<0.002		<0.002			<0.002
10/17/2019						7.6E-05 (J)	<0.002	
3/26/2020		<0.002						
3/27/2020			<0.002					<0.002
3/28/2020				<0.002	<0.002	<0.002	<0.002	
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022	<0.002				<0.002	<0.002		
3/2/2022		<0.002	<0.002				<0.002	<0.002
3/3/2022				<0.002				
9/20/2022	<0.002					<0.002		
9/21/2022		<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
3/1/2023		<0.002	<0.002	<0.002				<0.002
3/2/2023	<0.002				<0.002	<0.002	<0.002	
9/12/2023		<0.002			<0.002			
9/13/2023				<0.002			<0.002	<0.002
9/14/2023	<0.002		<0.002			<0.002		
3/19/2024			<0.002					
3/20/2024		<0.002		<0.002				<0.002
3/21/2024	<0.002				<0.002	<0.002	<0.002	
9/10/2024				<0.002				<0.002
9/11/2024	<0.002	<0.002	<0.002		<0.002		<0.002	
9/12/2024						<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002	<0.002		<0.002				
10/25/2016					<0.002			
11/30/2016	<0.002	<0.002		<0.002	<0.002			
2/15/2017	<0.002	<0.002		<0.002	<0.002			
5/31/2017	<0.002	<0.002			<0.002			
6/1/2017				6E-05 (J)				
6/2/2017			<0.002					
8/2/2017			<0.002					
8/15/2017	<0.002				<0.002			
8/16/2017		<0.002						
8/17/2017			<0.002	7E-05 (J)				
4/4/2018			<0.002					
5/8/2018			<0.002					
6/19/2018	<0.002	<0.002	<0.002		<0.002			
6/20/2018				<0.002				
9/25/2018	<0.002	<0.002						
9/26/2018			<0.002	<0.002	<0.002			
11/6/2018		<0.002			<0.002			
11/7/2018	<0.002		<0.002	<0.002				
8/26/2019		<0.002						
8/27/2019	<0.002		<0.002	6.6E-05 (J)	<0.002			
10/15/2019	<0.002	<0.002	<0.002					
10/16/2019				<0.002	<0.002			
11/7/2019						<0.002	<0.002	<0.002
11/18/2019						<0.002		
11/19/2019							<0.002	<0.002
12/4/2019							<0.002	<0.002
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		<0.002
1/8/2020							<0.002	<0.002
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	<0.002
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.002	<0.002
3/27/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/13/2021	<0.002	<0.002						
9/14/2021			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022			<0.002			<0.002		
3/3/2022	<0.002	<0.002		6.6E-05 (J)	<0.002			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
2/28/2023	<0.002				<0.002	<0.002	<0.002	<0.002
3/1/2023				<0.002				
3/2/2023		<0.002	<0.002					
9/12/2023	<0.002	<0.002	<0.002	<0.002				
9/13/2023					<0.002		<0.002	<0.002
9/14/2023						<0.002		
3/19/2024	<0.002				<0.002	<0.002	<0.002	
3/20/2024		<0.002	<0.002					
3/21/2024				<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

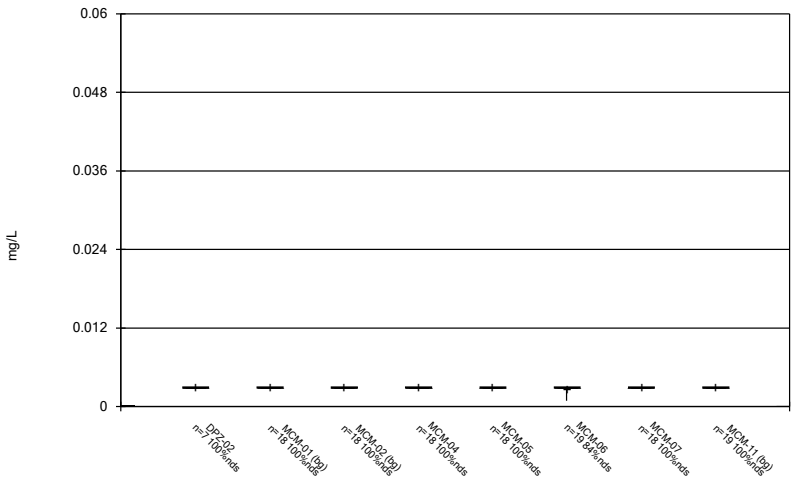
	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.002				<0.002			
9/11/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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Box & Whiskers Plot

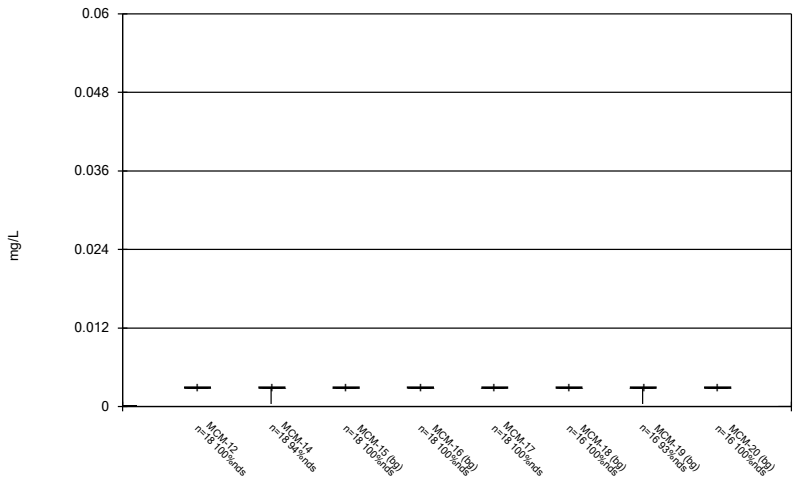


Constituent: Antimony Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

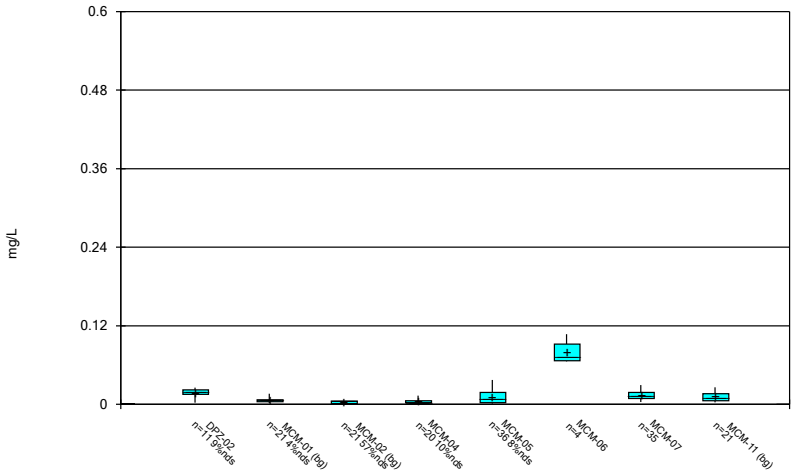


Constituent: Antimony Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

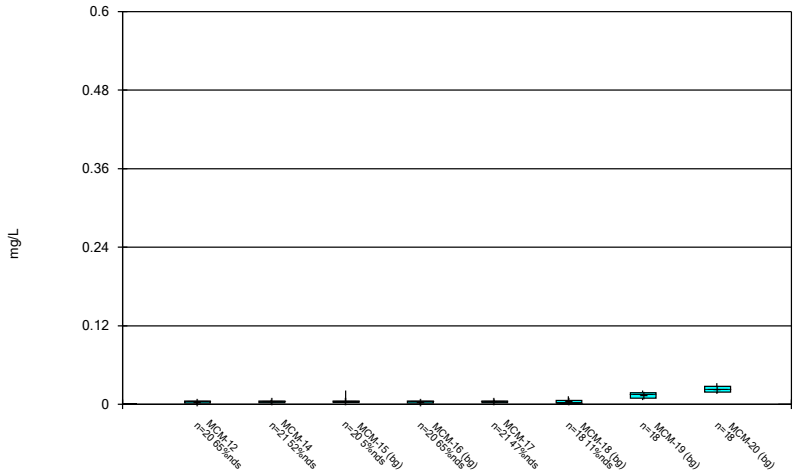


Constituent: Arsenic Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

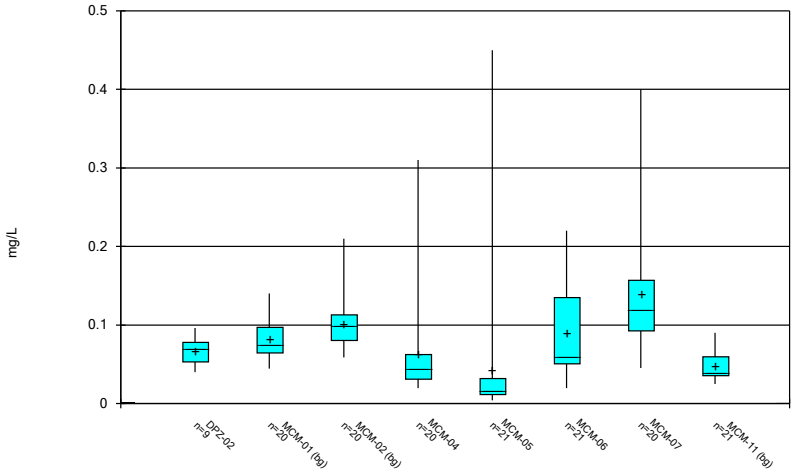


Constituent: Arsenic Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

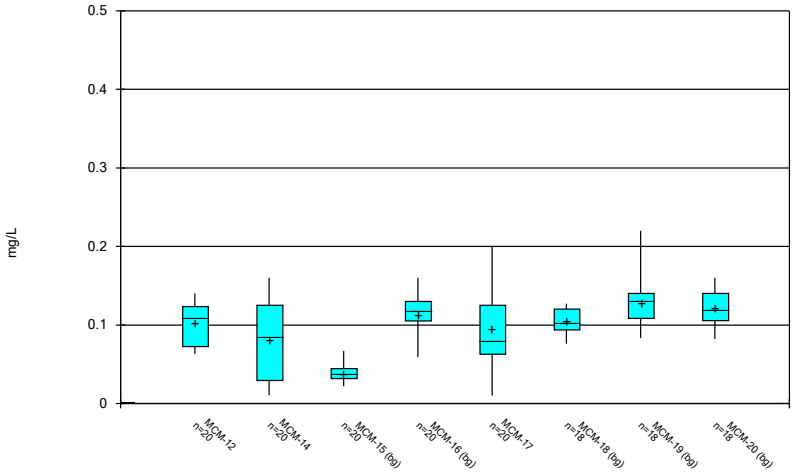


Constituent: Barium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

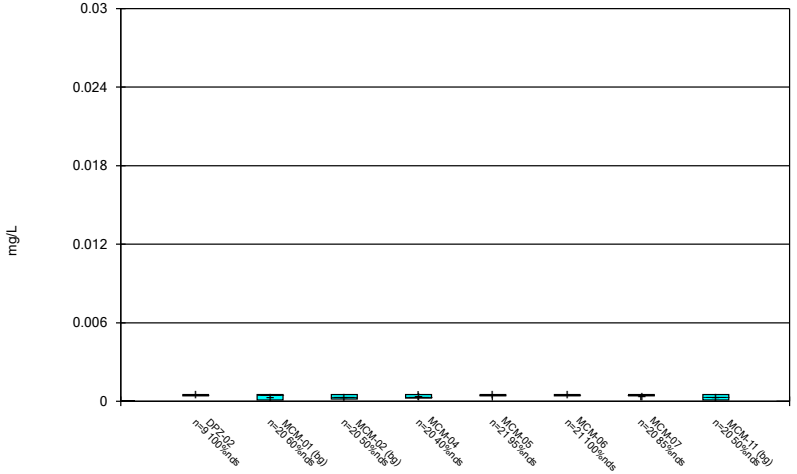


Constituent: Barium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

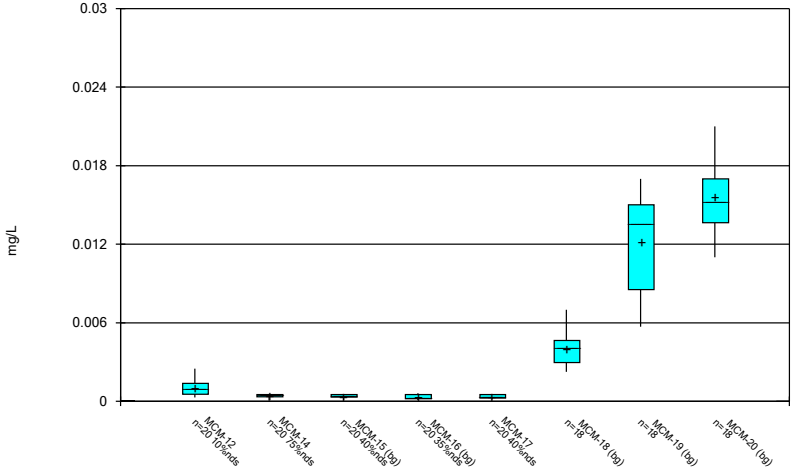


Constituent: Beryllium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

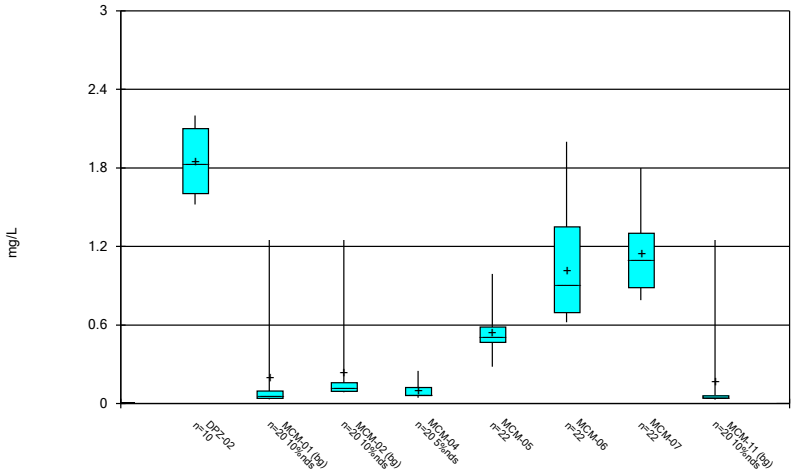


Constituent: Beryllium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

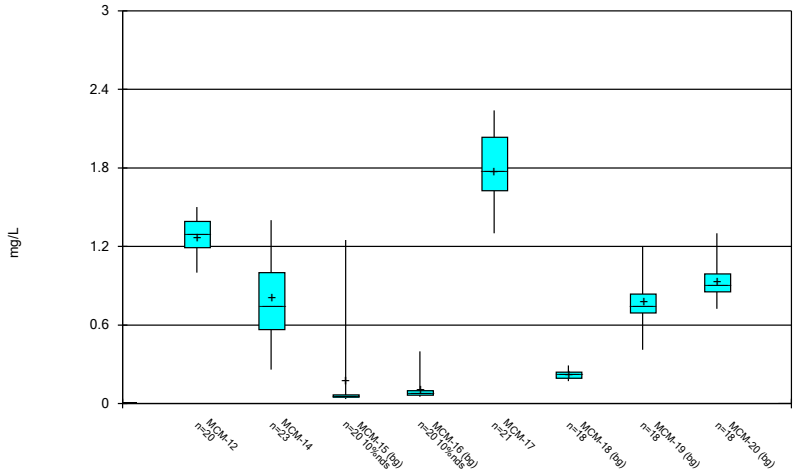


Constituent: Boron Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

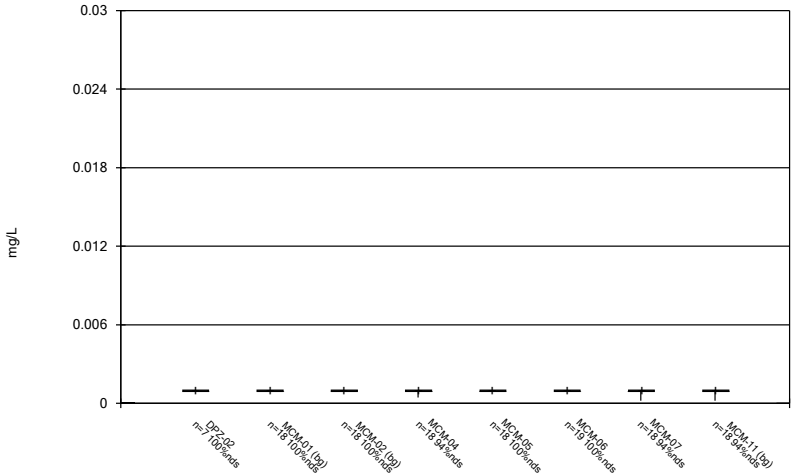


Constituent: Boron Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

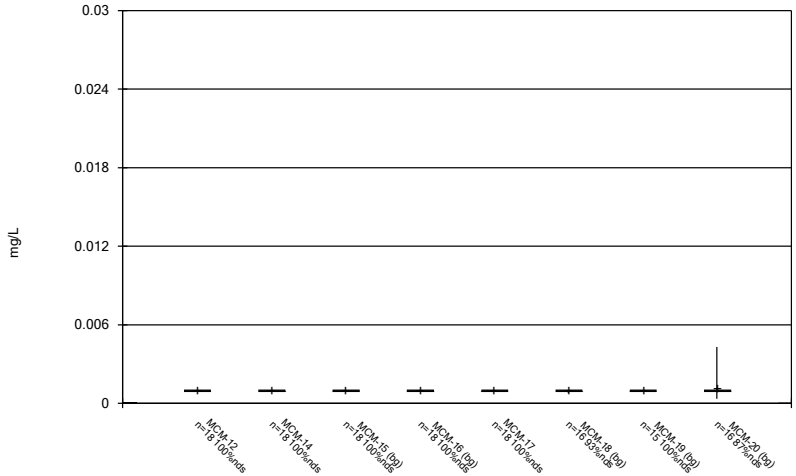


Constituent: Cadmium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

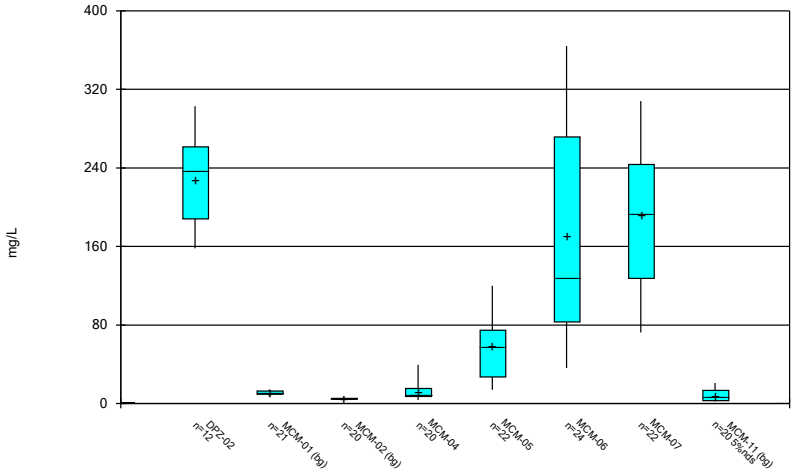


Constituent: Cadmium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

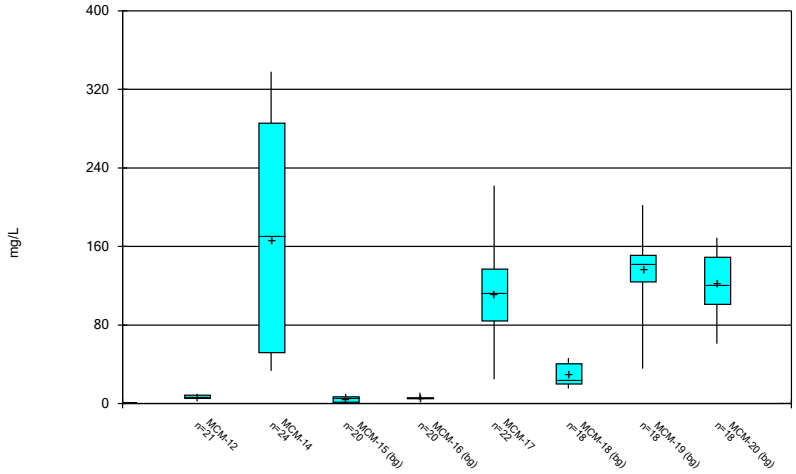


Constituent: Calcium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

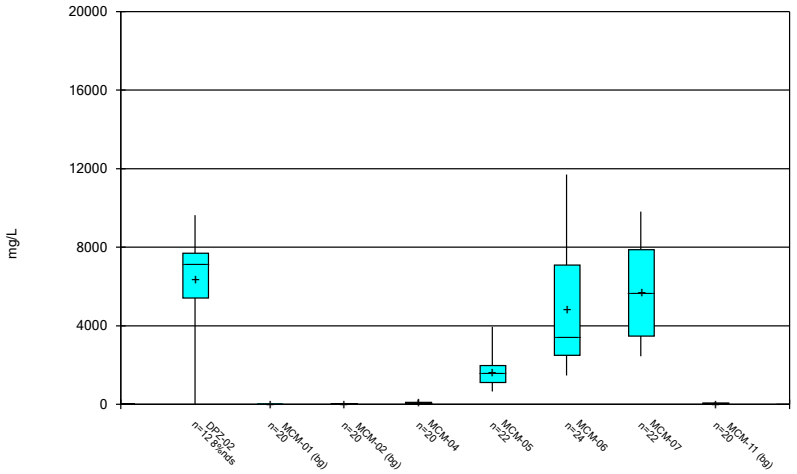


Constituent: Calcium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

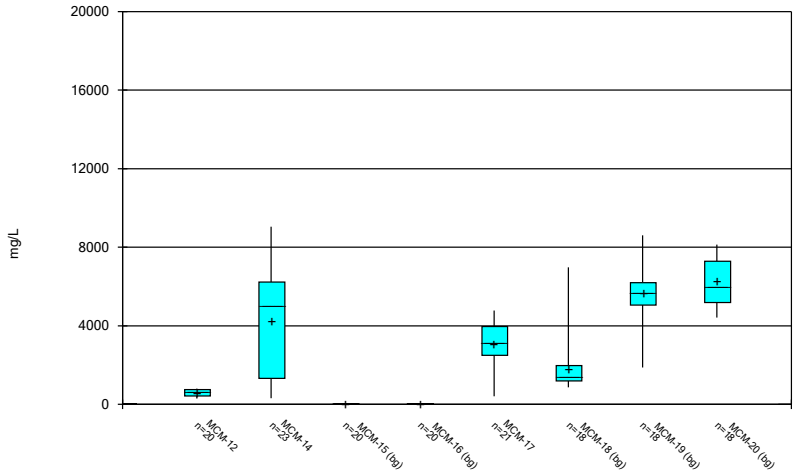


Constituent: Chloride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

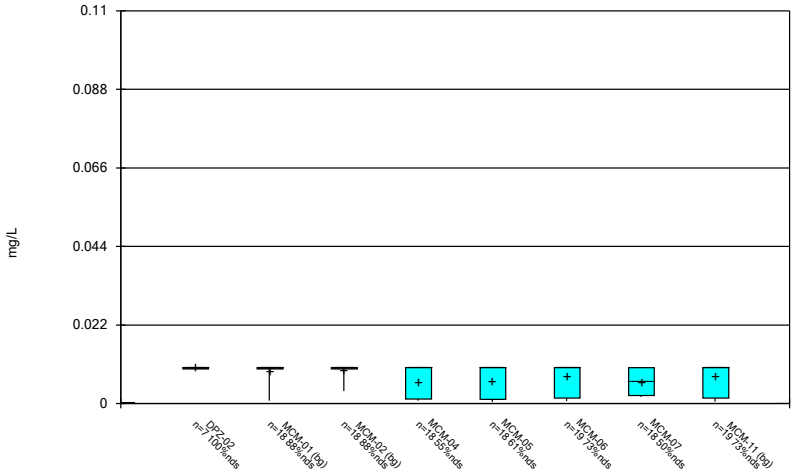


Constituent: Chloride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

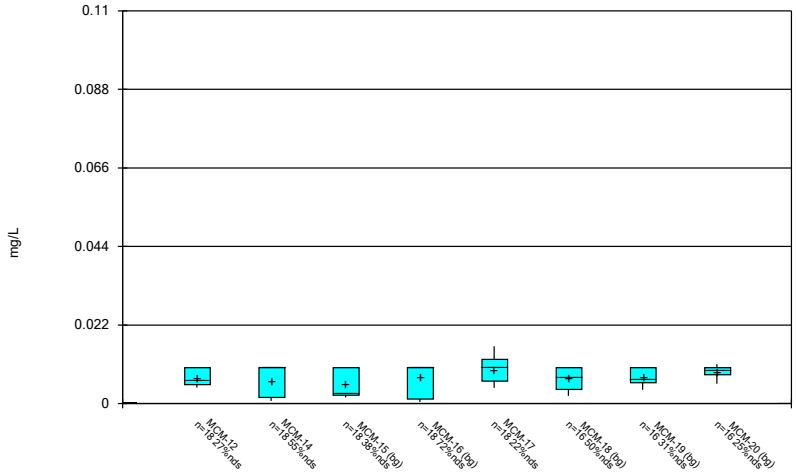


Constituent: Chromium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

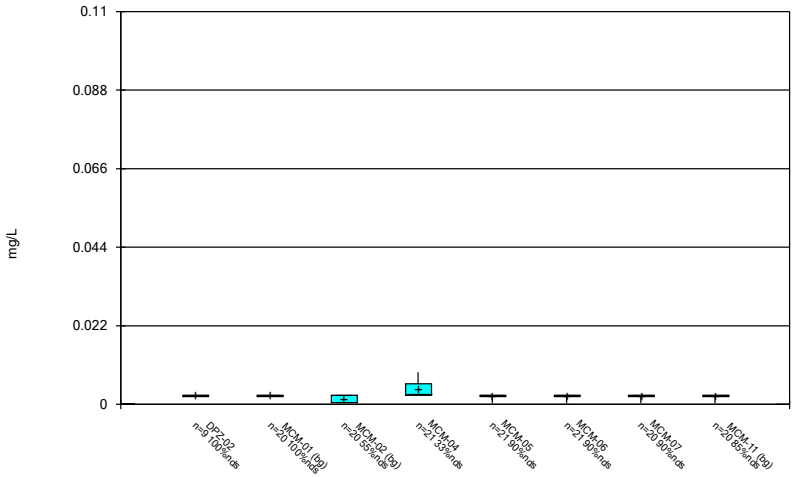


Constituent: Chromium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

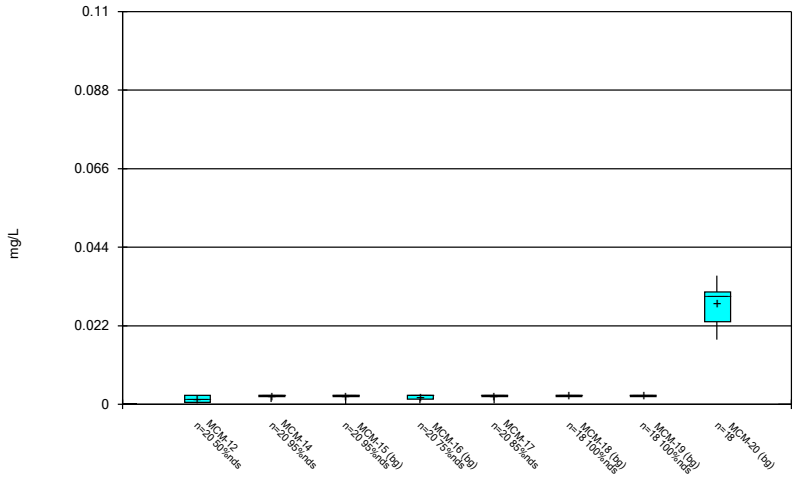


Constituent: Cobalt Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

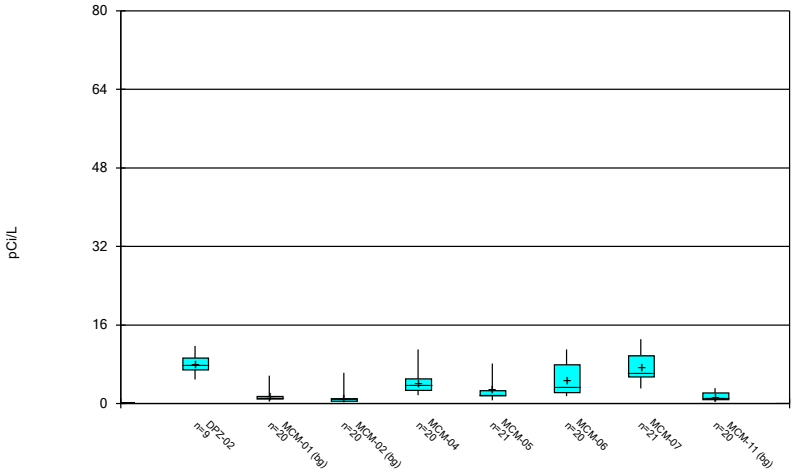


Constituent: Cobalt Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

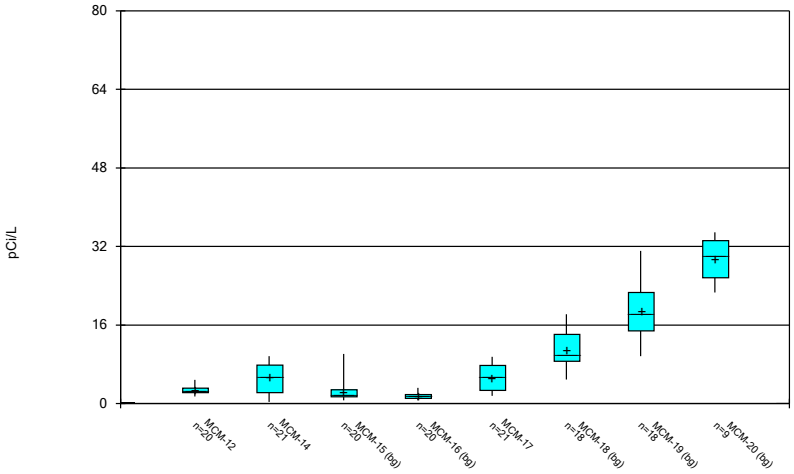


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

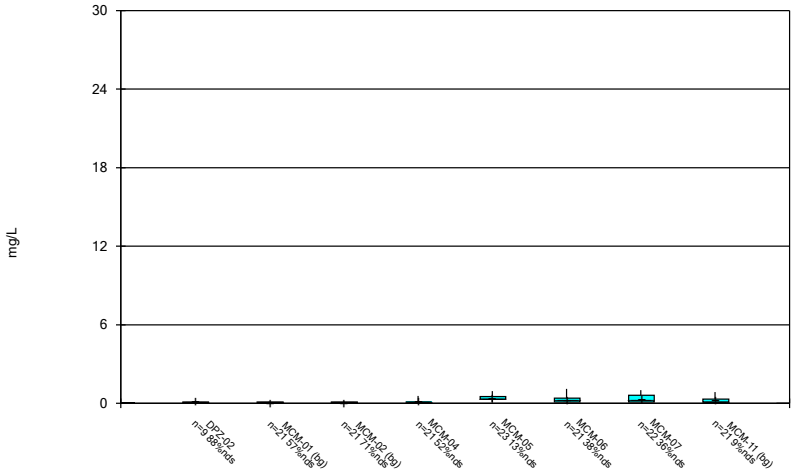


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

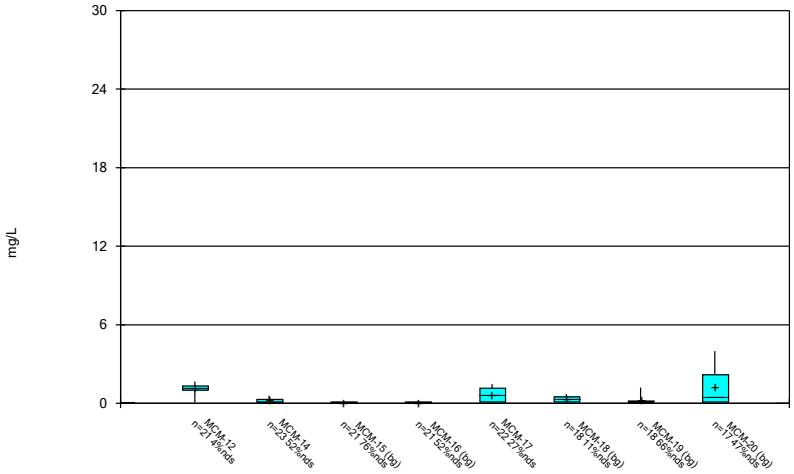


Constituent: Fluoride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

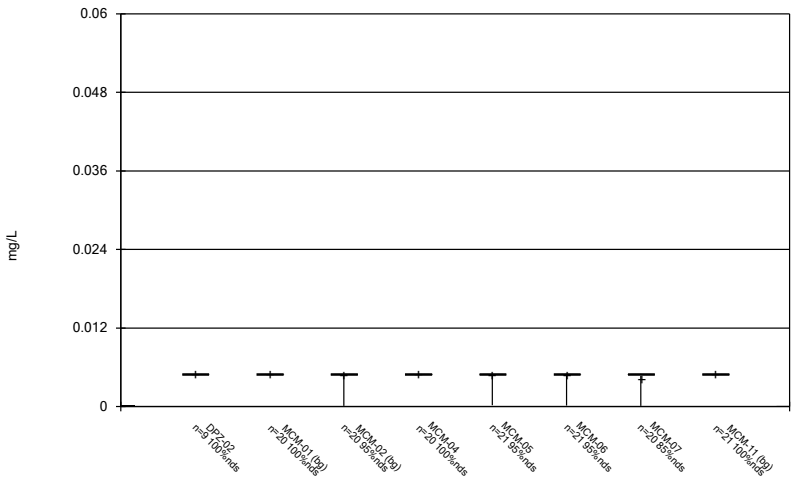


Constituent: Fluoride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

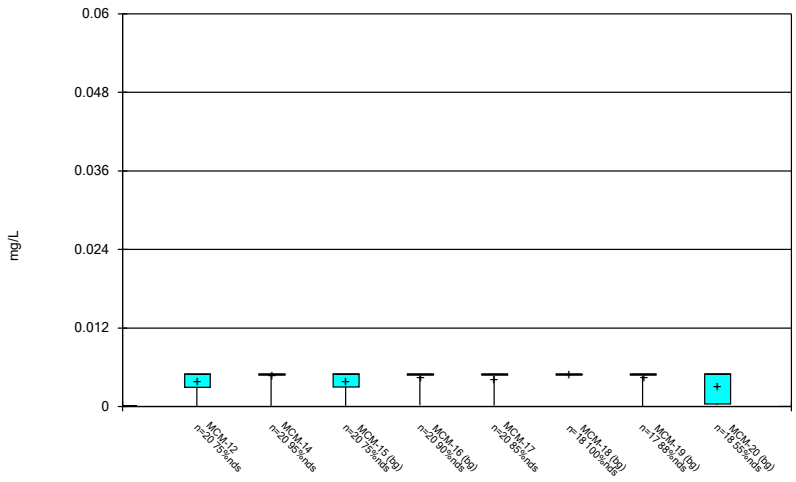


Constituent: Lead Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

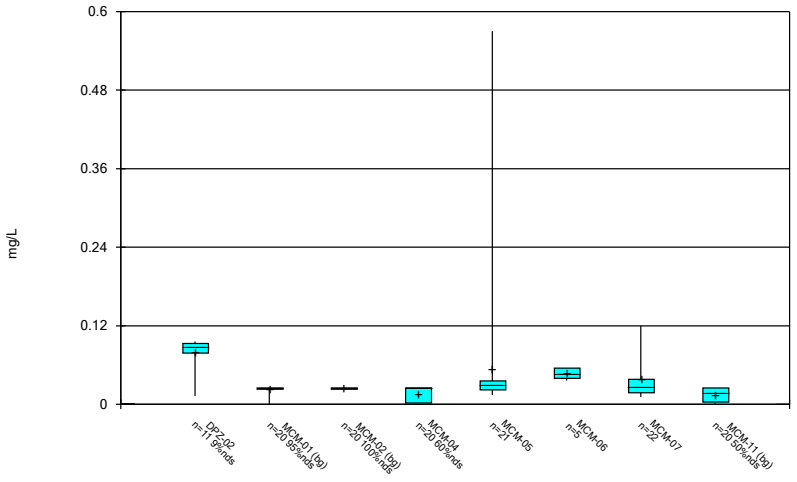


Constituent: Lead Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

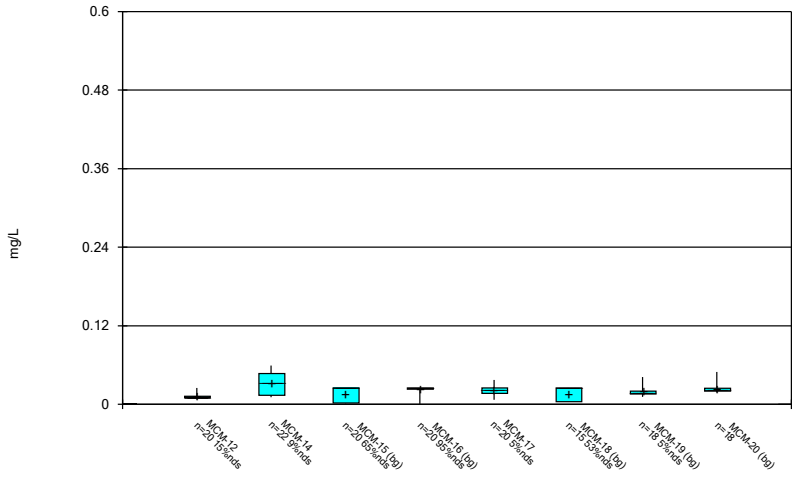


Constituent: Lithium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

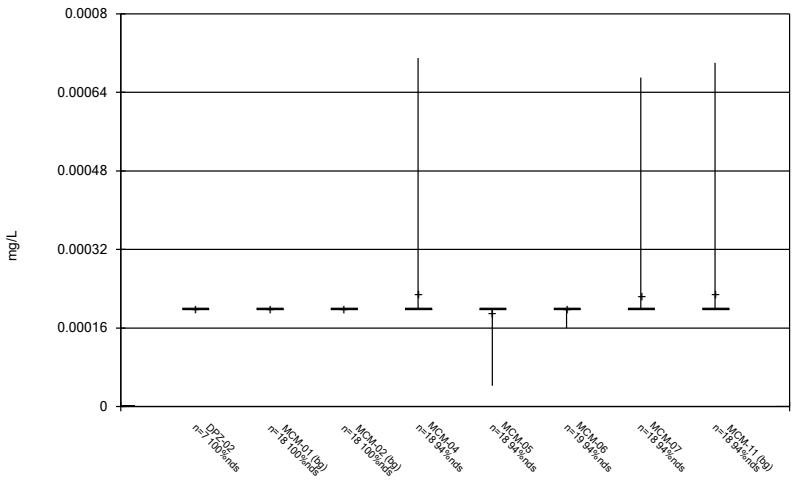


Constituent: Lithium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

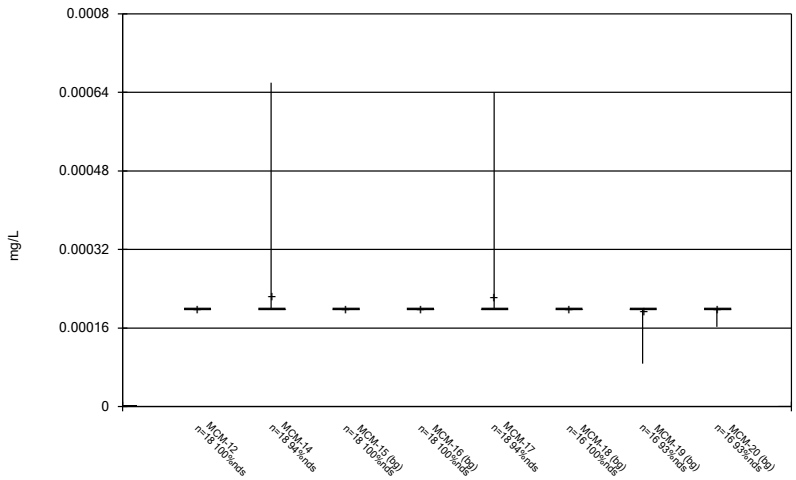


Constituent: Mercury Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

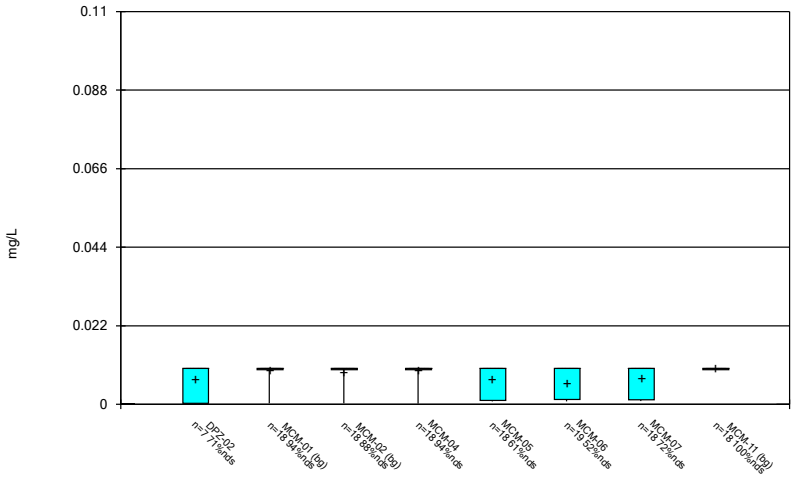


Constituent: Mercury Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

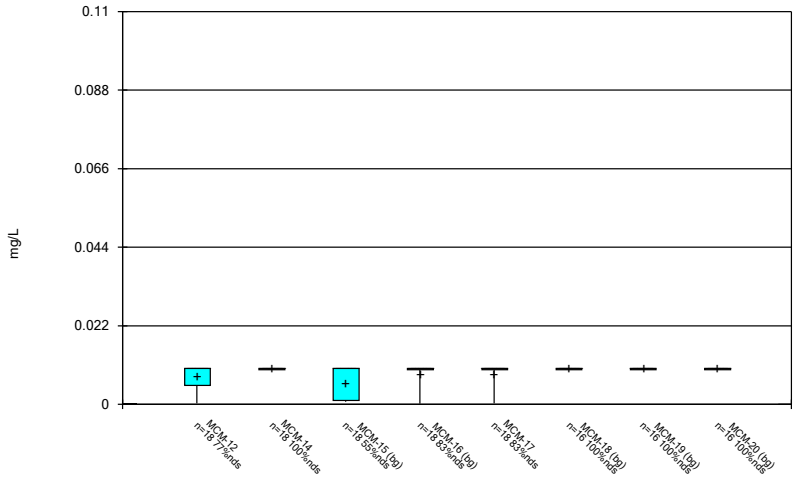


Constituent: Molybdenum Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

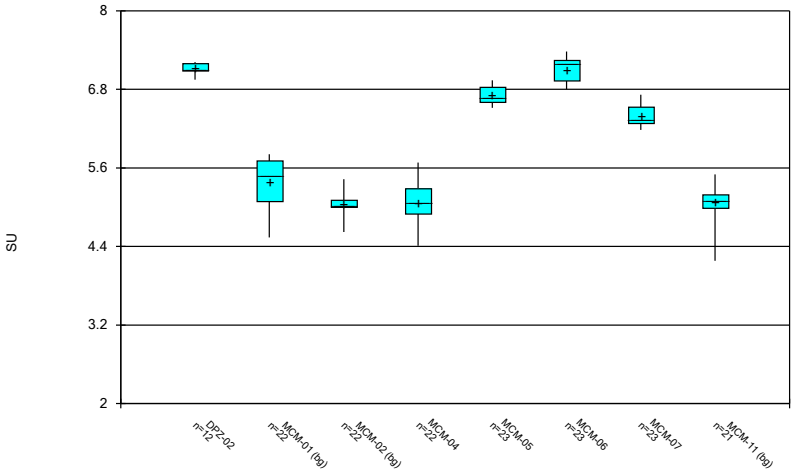


Constituent: Molybdenum Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

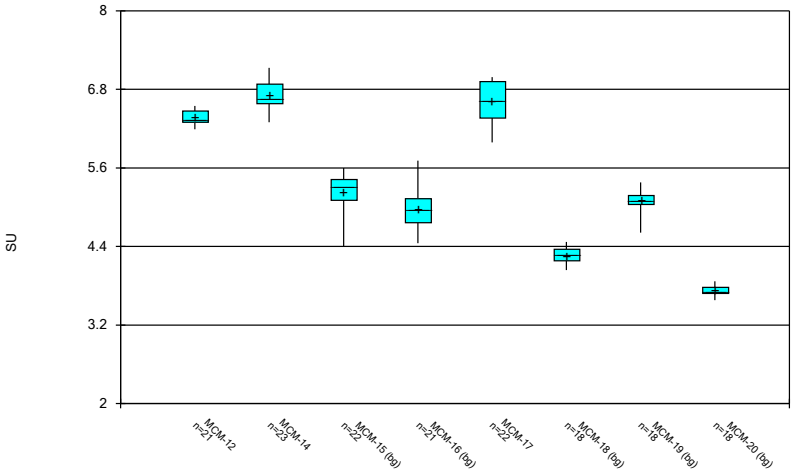


Constituent: pH, Field Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

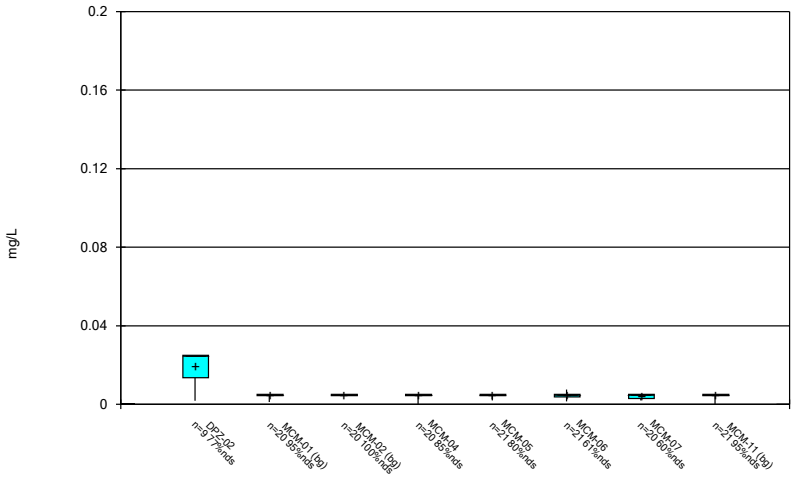


Constituent: pH, Field Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

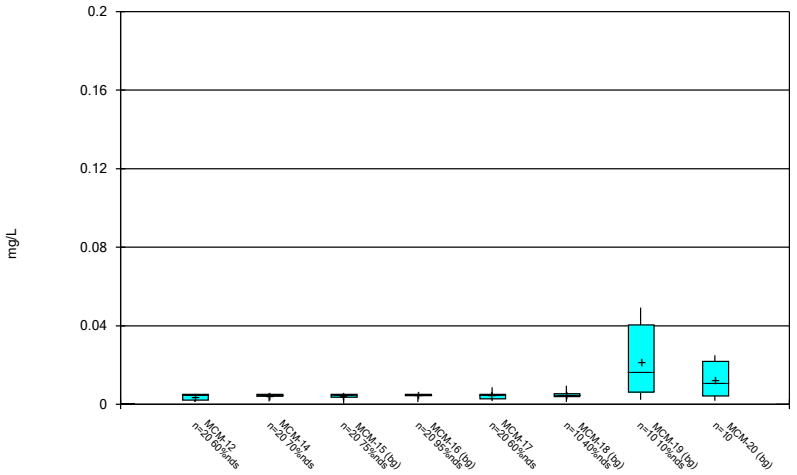


Constituent: Selenium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

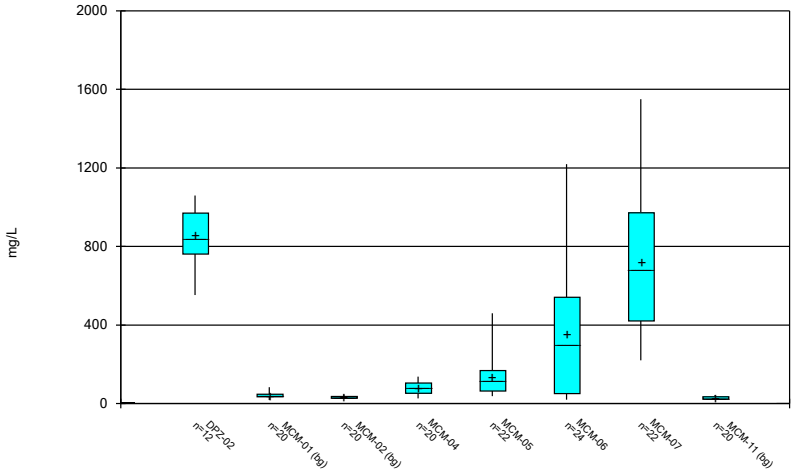


Constituent: Selenium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

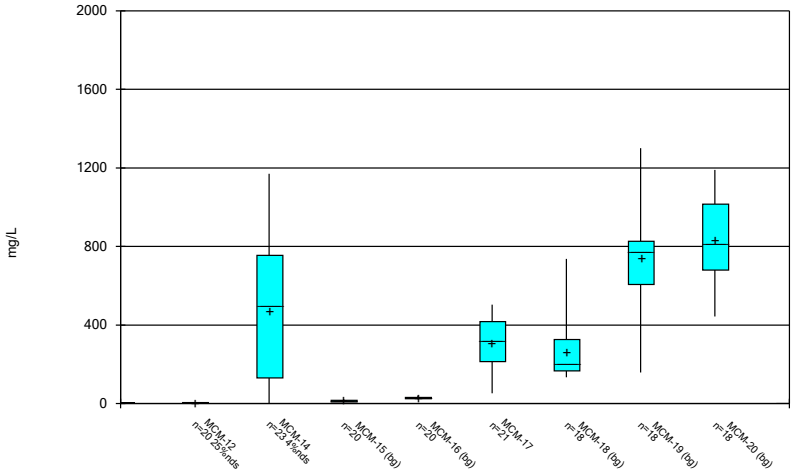


Constituent: Sulfate Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

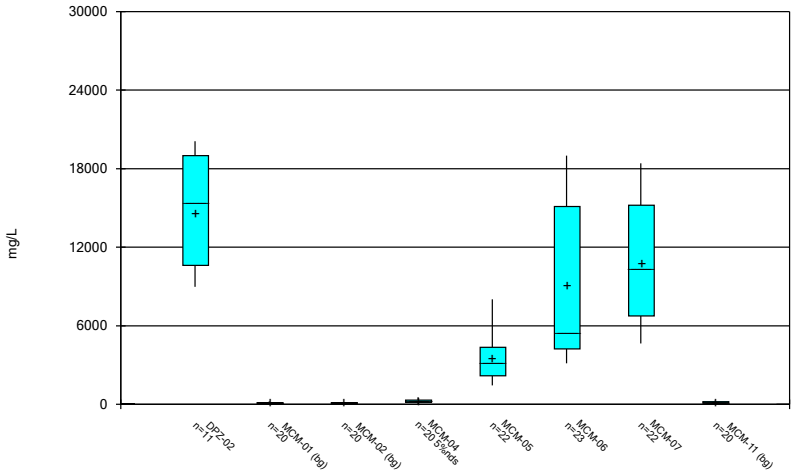


Constituent: Sulfate Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

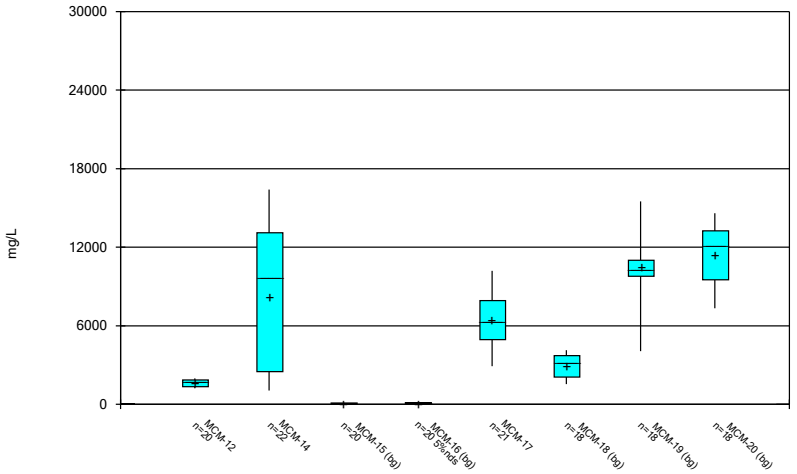


Constituent: TDS Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

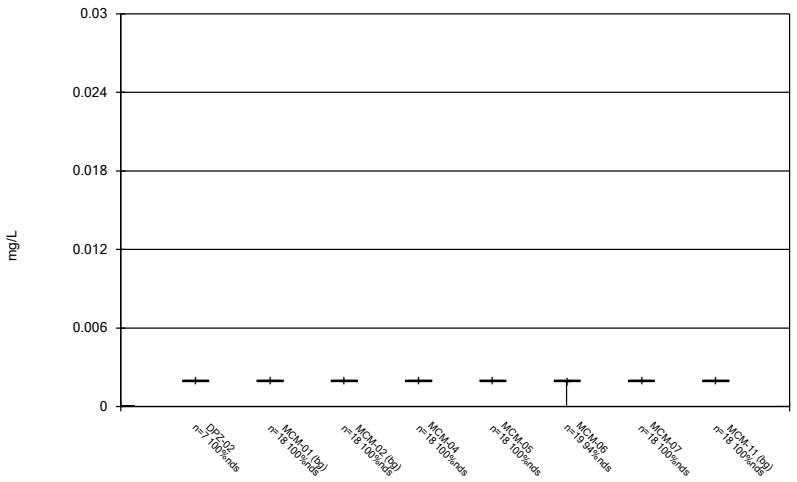


Constituent: TDS Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot

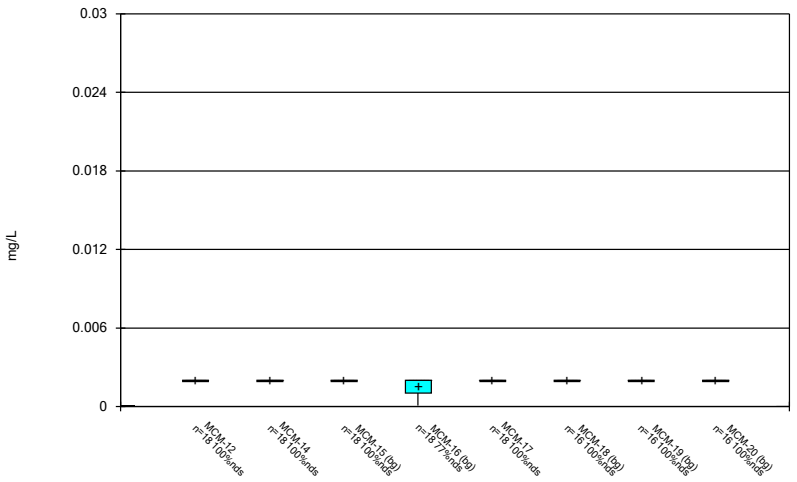


Constituent: Thallium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:02 PM

	MCM-19 Cadmium (mg/L)	MCM-06 Fluoride (mg/L)	MCM-20 Fluoride (mg/L)	MCM-19 Lead (mg/L)	MCM-18 Lithium (mg/L)
11/7/2018		10.3 (O)			
11/18/2019					<0.1 (O)
1/21/2020					<0.15 (O)
2/4/2020					<0.3 (O)
2/13/2020				<0.025 (O)	
9/20/2022	0.0083 (O)		4.3 (JO)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

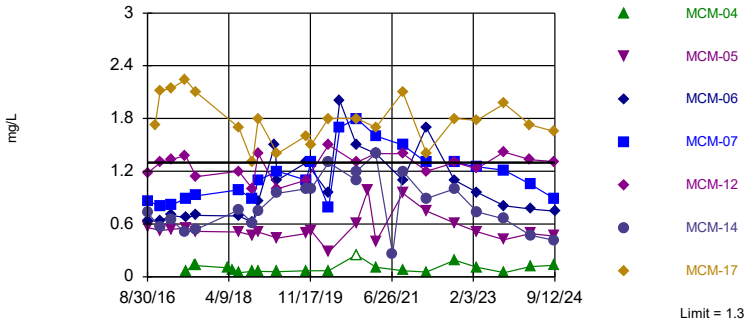
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2024	0.131	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/11/2024	0.463	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/12/2024	0.745	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2024	0.888	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/11/2024	0.415	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2024	9.06	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	9/11/2024	78.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	9/12/2024	134	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	9/11/2024	72.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/10/2024	4.67	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/11/2024	41.3	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/10/2024	57.2	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2024	100	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/11/2024	1800	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/12/2024	3240	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2024	2440	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/10/2024	297	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/11/2024	1320	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/10/2024	3080	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2024	0.0749J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/11/2024	0.654	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/12/2024	0.392J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2024	0.692	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/10/2024	1.67	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/11/2024	0.164J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/10/2024	0.986J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2024	5.1	No	162	n/a	n/a	0	n/a	n/a	0.0001498	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2024	103	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/11/2024	148	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/12/2024	271	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2024	296	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/10/2024	0.462	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/11/2024	180	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/10/2024	323	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2024	316	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/11/2024	3020	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/12/2024	5340	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2024	4640	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/10/2024	1230	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/11/2024	2480	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/10/2024	5490	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2

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Hollow symbols indicate censored values.

Exceeds Limit: MCM-12, MCM-17

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 154 background values. 6.494% NDs. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

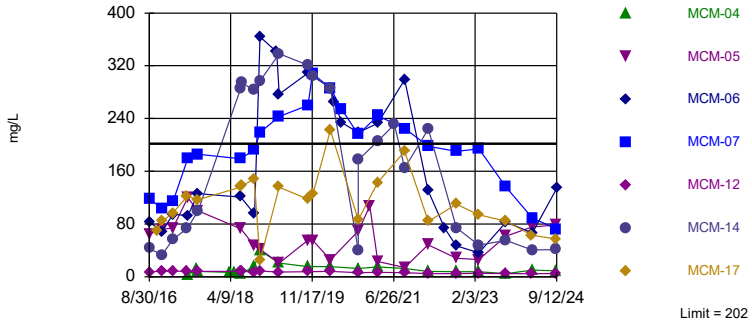
Constituent: Boron Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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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 155 background values. 0.6452% NDs. Annual per-constituent alpha = 0.001151. Individual comparison alpha = 0.00008227 (1 of 2). Comparing 7 points to limit.

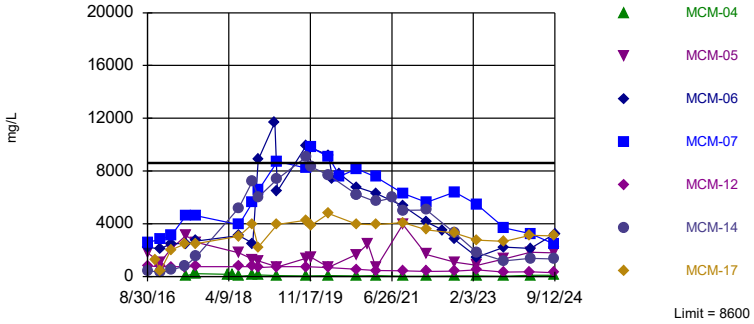
Constituent: Calcium Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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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 154 background values. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

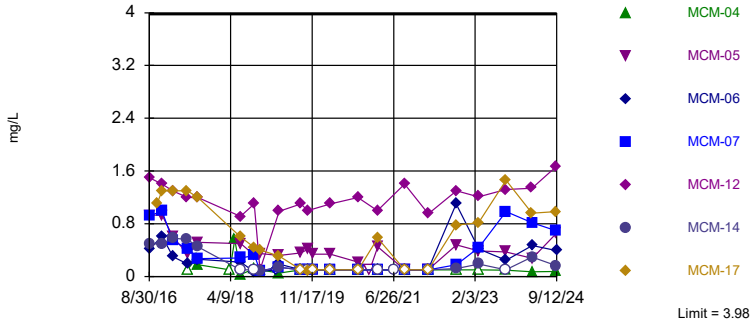
Constituent: Chloride Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 158 background values. 49.37% NDs. Annual per-constituent alpha = 0.001103. Individual comparison alpha = 0.00007882 (1 of 2). Comparing 7 points to limit.

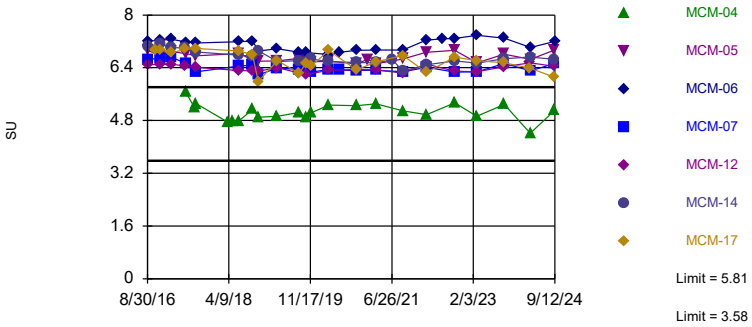
Constituent: Fluoride Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

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 162 background values. Annual per-constituent alpha = 0.002097. Individual comparison alpha = 0.0001498 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

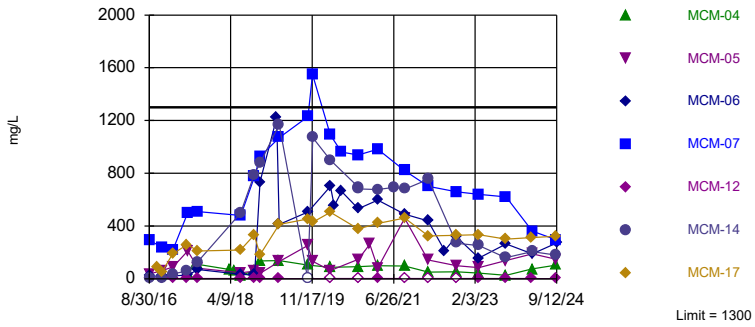
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

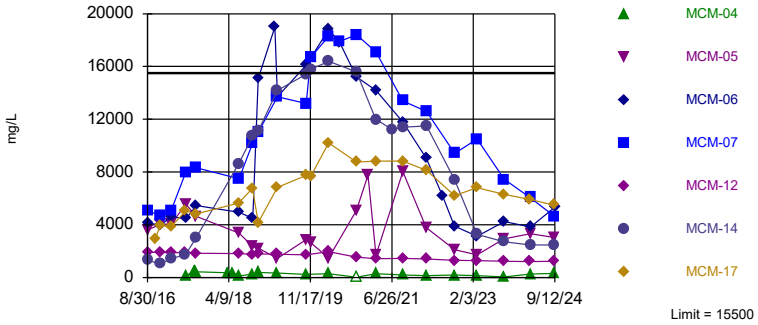
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 0.6494% NDs. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	0.0325 (J)	1.18	0.726	0.0972 (J)					
8/31/2016					0.56	0.632	0.863		
10/25/2016								1.73	
11/30/2016	0.0334 (J)	1.3	0.565	0.0964	0.529	0.637	0.804	2.12	
2/15/2017	0.254	1.33	0.647	0.398				2.14	
2/16/2017					0.539	0.698	0.815		
5/31/2017		1.38	0.503					2.24	0.0521
6/1/2017	0.0564			0.0776					
6/2/2017					0.555	0.674	0.891		
8/2/2017									0.0392 (J)
8/15/2017		1.14						2.1	0.0448
8/16/2017	0.0435		0.539						
8/17/2017				0.0853	0.516	0.7	0.922		
4/4/2018									0.046
4/5/2018									
5/8/2018									0.048
5/9/2018									
6/19/2018	0.04 (J)	1.2	0.76					1.7	0.04
6/20/2018				0.079	0.51	0.69			
6/21/2018							0.99		
9/25/2018		1	0.61						0.043
9/26/2018	0.038 (J)			0.072				1.3	
9/27/2018					0.47	0.62	0.88		
11/6/2018			0.75				1.1	1.8	0.046
11/7/2018	0.037 (J)	1.4		0.074	0.51	0.86			
3/6/2019						1.5			
3/24/2019		1	0.95		0.44	1.1	1.2	1.4	
3/25/2019	0.038 (J)			0.067					0.03 (J)
10/15/2019		1.1	1						
10/16/2019	0.036 (J)			0.051	0.49			1.6	0.032 (J)
10/17/2019						1.3	1.1		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					0.53		1.3		
11/21/2019			1					1.5	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	0.064 (J)								
3/27/2020		1.5	1.3	0.088 (J)				1.8	0.058 (J)
3/28/2020					0.28 (J)	0.95	0.79		
6/16/2020						2	1.7		
10/12/2020		1.3							<0.5
10/13/2020	<0.5		1.1	<0.5				1.8	
10/14/2020			1.2			1.5	1.8		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020					0.61				
1/4/2021					0.99				
3/2/2021		1.4 (J)	1.4 (J)						
3/3/2021	<0.5			<0.5				1.7 (J)	<0.5
3/4/2021					0.4 (J)	1.4 (J)	1.6 (J)		
7/1/2021			0.26 (J)						
9/13/2021		1.4	1.2						
9/14/2021	0.079 (J)			0.071 (J)	0.95 (J)	1.1	1.5	2.1	0.06 (J)
3/1/2022					0.75 (J)	1.7			
3/2/2022	0.048 (J)						1.3		0.038 (J)
3/3/2022		1.2	0.89 (J)	0.057				1.4	
9/20/2022						1.1			
9/21/2022	0.35 (J)	1.3	1	0.12 (J)	0.61		1.3	1.8	0.17 (J)
2/28/2023		1.23						1.78	
3/1/2023	0.091			0.0669					0.0461
3/2/2023			0.738		0.511	0.961	1.25		
9/12/2023	0.101	1.42	0.657	0.0613	0.42				
9/13/2023							1.21	1.97	0.0783
9/14/2023						0.807			
3/19/2024		1.33						1.73	
3/20/2024	0.0784		0.474						0.0443
3/21/2024				0.0603	0.491	0.772	1.05		
9/10/2024		1.31						1.65	0.0483
9/11/2024	0.0753		0.415	0.0517	0.463		0.888		
9/12/2024						0.745			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.161					
6/1/2017		0.0608				
6/2/2017			0.0495			
8/2/2017	0.158	0.137	0.0333 (J)			
8/15/2017						
8/16/2017	0.148					
8/17/2017		0.128	0.0593			
4/4/2018		0.1	0.065			
4/5/2018	0.13					
5/8/2018		0.074	0.062			
5/9/2018	0.12					
6/19/2018	0.13		0.064			
6/20/2018		0.045				
6/21/2018						
9/25/2018						
9/26/2018	0.1		0.06			
9/27/2018		0.06				
11/6/2018		0.06				
11/7/2018	0.1		0.062 (J)			
3/6/2019						
3/24/2019						
3/25/2019	0.091	0.058	0.057			
10/15/2019		0.068	0.046			
10/16/2019	0.085					
10/17/2019						
11/7/2019				0.84	1.1	0.27
11/18/2019						0.29 (J)
11/19/2019				0.83	1.3	
11/20/2019						
11/21/2019						
12/4/2019				0.68	0.81	
12/5/2019						0.23
12/17/2019				0.57		
12/18/2019					0.77	0.23
1/8/2020				0.73	0.9	
1/9/2020						0.2
1/21/2020				0.75	0.94	0.24 (J)
2/4/2020				0.79 (J)	0.96 (J)	0.24 (J)
2/13/2020				0.74	0.88	0.22
3/26/2020						
3/27/2020	0.17 (J)		0.076 (J)	0.96	0.94	0.24 (J)
3/28/2020		0.067 (J)				
6/16/2020						
10/12/2020						0.24 (J)
10/13/2020	<0.5	<0.5	<0.5	0.73	1.1	
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/15/2020						
1/4/2021						
3/2/2021			<0.5			
3/3/2021	<0.5			0.79 (J)	0.91 (J)	0.21 (J)
3/4/2021		0.11 (J)				
7/1/2021						
9/13/2021						
9/14/2021	0.093 (J)	0.07 (J)	0.068 (J)	1.2	0.91 (J)	0.2 (J)
3/1/2022				0.41 (J)	0.87 (J)	
3/2/2022	0.086		0.054			0.23 (J)
3/3/2022		0.053				
9/20/2022				0.77	0.9	0.18 (J)
9/21/2022	0.23 (J)	0.19 (J)	0.14 (J)			
2/28/2023				0.707	0.723	0.185
3/1/2023	0.115	0.108				
3/2/2023			0.0416			
9/12/2023			0.0393			
9/13/2023		0.047		1.2	1.02	
9/14/2023	0.102					0.229
3/19/2024	0.0924			0.704		0.185
3/20/2024		0.116	0.0531			
3/21/2024					0.864	
9/10/2024		0.131				
9/11/2024	0.0875		0.035	0.61	0.841	0.172
9/12/2024						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	7.3	7.05	42.8	4.02					
8/31/2016					65	82.8	119		
10/25/2016								69.4	
11/30/2016	10.8	8.69	33.2	4.87	71.7	68.7	103	83.9	
2/15/2017	14.3	8.34	56.1	6.61				96.3	
2/16/2017					74	94.8	114		
5/31/2017		8.85	73.6					122	18.6
6/1/2017	12.7 (J)			6.42					
6/2/2017					120	92.5	179		
8/2/2017									18.5
8/15/2017		8.05						117	4.09
8/16/2017	8.7		99.6						
8/17/2017				5.62	100	126	186		
4/4/2018									<25
4/5/2018									
5/8/2018									18.4 (J)
5/9/2018									
6/19/2018	11.6 (J)	8.3	285					136	4.3
6/20/2018				5.7	72.8	121			
6/21/2018							179		
6/28/2018	13	8.9	294					138	
9/25/2018		6.8	283						6.2
9/26/2018	12.8 (J)			5.3				148	
9/27/2018					46.6	95.1	193		
11/6/2018			297				219	24.7	1.8
11/7/2018	11.9	8.5		5.3	41.8	364			
3/6/2019						341			
3/24/2019		7.4	338		20.9 (J)	277	243	136	
3/25/2019	12.6 (J)			5.7					2.5
10/15/2019		7.9	321						
10/16/2019	13.6			4.8	55.2			118	2.2
10/17/2019						309	260		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					55.8		308		
11/21/2019			305					125	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	10.1								
3/27/2020		8.3	286	5.4				222	3.3
3/28/2020					25.8	286	286		
4/23/2020						266			
6/16/2020						234	254		
10/12/2020		6.1							2.8

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/13/2020	9.8		40.9	5.7				86.4	
10/14/2020			177			219 (D)	216		
10/15/2020					69.1				
1/4/2021					107				
3/2/2021		6.5	205						
3/3/2021	14			11.2				143	2.1
3/4/2021					23.4	233	244		
7/1/2021			231						
9/13/2021		6	165						
9/14/2021	9.6			6.5	13.9	299	225	190	14
3/1/2022					48.4	131			
3/2/2022	8.2						198		6.8
3/3/2022		4.6	224	5.4				84	
6/28/2022						73.5			
9/20/2022						47			
9/21/2022	9.2	4.7	74	4.6	28		190	110	7.6
2/28/2023		5.17						94.2	
3/1/2023	7.87			4.74					6.53
3/2/2023			48		25.9	36.1	194		
9/12/2023	10.1	4.98	55.3	4.48	61.5				
9/13/2023							136	84.6	20.7
9/14/2023						83.1			
3/19/2024		4.99						63.2	
3/20/2024	11.3		40.6						9.1
3/21/2024				5.32	75.5	66.6	89.1		
9/10/2024		4.67						57.2	6.36
9/11/2024	9.6		41.3	5.49	78.5		72.5		
9/12/2024						134			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.9					
6/1/2017		3.65				
6/2/2017			2.77			
8/2/2017	4.69	12.4	1.27			
8/15/2017						
8/16/2017	5.25					
8/17/2017		8.17	5.53			
4/4/2018		6.8	6.5			
4/5/2018	5					
5/8/2018		5.7	6.7			
5/9/2018	4.7					
6/19/2018	4.8		7.4			
6/20/2018		4.3				
6/21/2018						
6/28/2018						
9/25/2018						
9/26/2018	4.6		8.5 (J)			
9/27/2018		16.4 (J)				
11/6/2018		39.5				
11/7/2018	4.6		9.8			
3/6/2019						
3/24/2019						
3/25/2019	4.7	20.8 (J)	7.8			
10/15/2019		15.5	6.7			
10/16/2019	4.9					
10/17/2019						
11/7/2019				46.2	158	163
11/18/2019				41.8		
11/19/2019					152	169
11/20/2019						
11/21/2019						
12/4/2019					142	140
12/5/2019				40.5		
12/17/2019					136	
12/18/2019				42		145
1/8/2020					147	157
1/9/2020				37.1		
1/21/2020				40.1	167	152
2/4/2020				36.2	142	139
2/13/2020				38.9	148	146
3/26/2020						
3/27/2020	4.9		5.9	23.2	122	113
3/28/2020		15.5				
4/23/2020						
6/16/2020						
10/12/2020				19.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/13/2020	3.8	12.5	0.83		125	128
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			1.4			
3/3/2021	4			26	123	110
3/4/2021		15.1				
7/1/2021						
9/13/2021						
9/14/2021	4.2	12.5	6.7	18.8	93.6	61.1
3/1/2022					35.5	99.8
3/2/2022	4.1		7.2	22.3		
3/3/2022		8				
6/28/2022						
9/20/2022				20	150	100
9/21/2022	4.3	7.8	0.83			
2/28/2023				22.5	150	104
3/1/2023	5.26	7.75				
3/2/2023			1.41			
9/12/2023			0.953			
9/13/2023		4.93			202	108
9/14/2023	6.64			21.1		
3/19/2024	4.73			19.7	138	
3/20/2024		10.1	4.88			
3/21/2024						102
9/10/2024		9.06				
9/11/2024	5.36		0.928	15.3	127	87.8
9/12/2024						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	9.7	450	26	800					
8/31/2016					2600	2200	1800		
10/25/2016								1300	
11/30/2016	19	310	27	760	2800	2100	1100	400	
2/15/2017	21	490	30	740				2000	
2/16/2017					3100	2500	2100		
5/31/2017		820		740				2500	98
6/1/2017	12		27						
6/2/2017					4600	2500	3100		
8/2/2017									57
8/15/2017				750				2500	15
8/16/2017	14	1500							
8/17/2017			32		4600	2700	2600		
4/4/2018									69
4/5/2018									
5/8/2018									72.3
5/9/2018									
6/19/2018	24.4	5180		760				3050	17.3
6/20/2018			30			3100	1800		
6/21/2018					3920				
9/25/2018		7220		752					31.3
9/26/2018	23.4		28.4					3965 (D)	
9/27/2018					5660	2510	1300		
11/6/2018		6020			6520			2230	9.8
11/7/2018	21.8		25.1	665		8860	1180		
3/6/2019						11700			
3/24/2019		7400		744	8720	6470	717	3960	
3/25/2019	19.4		21.8						12.9
10/15/2019		9050		744					
10/16/2019	21.4		20				1390	4260	12.2
10/17/2019					8210	9930			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					9810		1480		
11/21/2019		8330						3890	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	23								
3/27/2020		7680	23.6	675				4770	14.5
3/28/2020					9070	9190	693		
4/23/2020						7390			
6/16/2020					7580	7760			
10/12/2020				552					13.9
10/13/2020	13.5	6230	23.3					3980	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/14/2020		6230			8170	6780 (D)			
10/15/2020							1660		
1/4/2021							2460		
3/2/2021		5680		459					
3/3/2021	13.6		27.6					3920	9.4
3/4/2021					7540	6310	652		
7/1/2021		5960							
9/13/2021		5010		433					
9/14/2021	16.7		30		6300	5360	3940	4090	62.8
3/1/2022						4150	1680		
3/2/2022	13.4				5630				28.4
3/3/2022		5040	26.5	394				3540	
6/28/2022						3520			
9/20/2022						2800			
9/21/2022	17	3300	17	400	6400		1100	3300	32
2/28/2023				518				2770	
3/1/2023	14.9		14.2						17.7
3/2/2023		1810			5450	1470	853		
9/12/2023	10.7	1180	13.3	326			1330		
9/13/2023					3690			2660	98.5
9/14/2023						2220			
3/19/2024				361				3130	
3/20/2024	10.8	1390							32.1
3/21/2024			11.5		3240	2120	1830		
9/10/2024				297				3080	11.2
9/11/2024	9.34	1320	9.65		2440		1800		
9/12/2024						3240			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	39					
6/1/2017		22				
6/2/2017			11			
8/2/2017	42	230	3.2			
8/15/2017						
8/16/2017	41					
8/17/2017		210	12			
4/4/2018		156	13.4			
4/5/2018	40.2					
5/8/2018		140	13.2			
5/9/2018	40.6					
6/19/2018	37.7		13.7			
6/20/2018		27.5				
6/21/2018						
9/25/2018						
9/26/2018	33.4		18.5			
9/27/2018		101				
11/6/2018		107				
11/7/2018	30.7		20.2			
3/6/2019						
3/24/2019						
3/25/2019	33.5	78.5	19.7			
10/15/2019		46	17.1			
10/16/2019	33.1					
10/17/2019						
11/7/2019				2360	7880	6170
11/18/2019				6970		
11/19/2019					8130	5650
11/20/2019						
11/21/2019						
12/4/2019					7410	6100
12/5/2019				2130		
12/17/2019						5660
12/18/2019				2090	7170	
1/8/2020					6480	5070
1/9/2020				1750		
1/21/2020				1630	6000	5010
2/4/2020				1760	5700	5030
2/13/2020				1850	7060	6140
3/26/2020						
3/27/2020	32.9		14.1	1450	7110	6870
3/28/2020		71.4				
4/23/2020						
6/16/2020						
10/12/2020				1340		
10/13/2020	25.7	54.4	3.8		5980	5260

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			4.2			
3/3/2021	20.5			1230	5500	5170
3/4/2021		69.6				
7/1/2021						
9/13/2021						
9/14/2021	21.8	28.5	13.6	1020	5100	7250
3/1/2022					4900	1870
3/2/2022	20.6		14.3	1420		
3/3/2022		12.2				
6/28/2022						
9/20/2022				1200	5700	6200
9/21/2022	23	47	3.3			
2/28/2023				1250	7930	5760
3/1/2023	21.8	45.6				
3/2/2023			4.88			
9/12/2023			3.49			
9/13/2023		10.4			5250	8600
9/14/2023	21.1			1190		
3/19/2024	20			1100		5460
3/20/2024		82.3	13.5			
3/21/2024					4980	
9/10/2024		100				
9/11/2024	16.4		3.34	856	4420	4880
9/12/2024						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	0.03 (J)	1.5	0.5	0.04 (J)					
8/31/2016					0.41	0.92	0.93		
10/25/2016								1.1	
11/30/2016	0.04 (J)	1.4	0.49	0.18 (J)	0.61	0.99	0.93	1.3	
2/15/2017	0.007 (J)	1.3	0.58	0.02 (J)				1.3	
2/16/2017					0.3 (J)	0.54	0.6		
5/31/2017		1.2	0.56					1.3	0.85
6/1/2017	<0.1			0.005 (J)					
6/2/2017					0.19 (J)	0.42	0.34		
8/2/2017									0.69
8/15/2017		1.2						1.2	0.29 (J)
8/16/2017	0.03 (J)		0.45						
8/17/2017				0.04 (J)	0.26 (J)	0.27 (J)	0.52		
4/4/2018									0.32
4/5/2018									
5/8/2018									0.63
5/9/2018									
6/19/2018	<0.1	0.91	<0.1					0.6	0.17 (J)
6/20/2018				0.038 (J)	0.22 (J)		0.5		
6/21/2018						0.28 (J)			
9/25/2018		1.1	<0.1						0.15 (J)
9/26/2018	0.12 (J)			<0.1				0.44 (D)	
9/27/2018					0.068 (J)	0.32	0.32		
11/6/2018			0.084 (J)			0.086 (J)		0.4	<0.1
11/7/2018	<0.1	<0.1		<0.1	10.3 (O)		0.35		
3/6/2019					<0.1				
3/24/2019		0.99	0.14 (J)		0.19 (J)	0.14 (J)	0.32	0.31	
3/25/2019	0.038 (J)			0.041 (J)					0.12 (J)
8/26/2019			<0.1						
8/27/2019	<0.1	1.1		<0.1				<0.1	
8/28/2019					<0.1	<0.1	0.36		0.068 (J)
10/15/2019		1	<0.1						
10/16/2019	0.046 (J)			0.044 (J)			0.41	0.083 (J)	0.1 (J)
10/17/2019					<0.1	<0.1			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						<0.1	0.34		
11/21/2019			<0.1					<0.1	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	<0.1								
3/27/2020		1.1	<0.1	<0.1				<0.1	0.066 (J)
3/28/2020					<0.1	<0.1	0.34		
10/12/2020		1.2							<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	<0.1		<0.1	<0.1				<0.1	
10/14/2020					<0.1	<0.1			
10/15/2020							0.22		
1/4/2021							<0.1		
3/2/2021		1	<0.1						
3/3/2021	<0.1			<0.1				0.58 (J)	0.082 (J)
3/4/2021					<0.1	<0.1	0.45		
7/1/2021			<0.1						
9/13/2021		1.4	<0.1						
9/14/2021	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022					<0.1		<0.1		
3/2/2022	<0.1					<0.1			0.097 (J)
3/3/2022		0.95	<0.1	<0.1				<0.1	
9/20/2022					1.1 (J)				
9/21/2022	<0.1	1.3	0.12	<0.1		0.18	0.48	0.78	0.11
2/28/2023		1.21						0.815	
3/1/2023	<0.1			0.0397 (J)					0.101
3/2/2023			0.188 (J)		0.419 (J)	0.44 (J)	0.388		
9/12/2023	<0.1	1.32	<0.1	<0.1			0.374		
9/13/2023						0.982 (J)		1.46	0.362
9/14/2023					0.246 (J)				
3/19/2024		1.34						0.959 (J)	
3/20/2024	0.0748 (J)		0.294 (J)						0.206
3/21/2024				0.0585 (J)	0.469 (J)	0.814 (J)	0.277		
9/10/2024		1.67						0.986 (J)	0.202
9/11/2024	0.0669 (J)		0.164 (J)	<0.1		0.692	0.654		
9/12/2024					0.392 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.01 (J)					
6/1/2017		<0.1				
6/2/2017			<0.1			
8/2/2017	0.14 (J)	0.27 (J)	0.05 (J)			
8/15/2017						
8/16/2017	0.13 (J)					
8/17/2017		0.18 (J)	<0.1			
4/4/2018		<0.1	<0.1			
4/5/2018	<0.1					
5/8/2018		0.56	<0.1			
5/9/2018	<0.1					
6/19/2018	0.065 (J)		0.057 (J)			
6/20/2018		0.033 (J)				
6/21/2018						
9/25/2018						
9/26/2018	<0.1		<0.1			
9/27/2018		0.12 (J)				
11/6/2018		<0.1				
11/7/2018	<0.1		<0.1			
3/6/2019						
3/24/2019						
3/25/2019	0.039 (J)	0.055 (J)	0.036 (J)			
8/26/2019						
8/27/2019		<0.1	<0.1			
8/28/2019	<0.1					
10/15/2019		0.095 (J)	0.14 (J)			
10/16/2019	0.044 (J)					
10/17/2019						
11/7/2019				1.4	0.49	<0.1
11/18/2019					0.52	
11/19/2019				1.2		0.033 (J)
11/20/2019						
11/21/2019						
12/4/2019				1.4		0.22 (J)
12/5/2019					0.5	
12/17/2019						<0.1
12/18/2019				1.5	0.33	
1/8/2020				<0.1		<0.1
1/9/2020					0.12 (J)	
1/21/2020				0.53	0.13 (J)	0.11 (J)
2/4/2020				<0.1	0.18 (J)	<0.1
2/13/2020				<0.1	0.077 (J)	<0.1
3/26/2020						
3/27/2020	<0.1		<0.1	<0.1	0.06 (J)	<0.1
3/28/2020		<0.1				
10/12/2020					0.34	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/13/2020	<0.1	<0.1	<0.1	<0.1		<0.1
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			<0.1			
3/3/2021	<0.1			<0.1	0.32	<0.1
3/4/2021		<0.1				
7/1/2021						
9/13/2021						
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022				<0.1		<0.1
3/2/2022	<0.1		<0.1		<0.1	
3/3/2022		<0.1				
9/20/2022				4.3 (JO)	0.61 (J)	<0.1
9/21/2022	<0.1	<0.1	<0.1			
2/28/2023				3.32	0.407 (J)	0.38 (J)
3/1/2023	<0.1	<0.1				
3/2/2023			0.0397 (J)			
9/12/2023			<0.1			
9/13/2023		0.0941 (J)		3.98		<0.1
9/14/2023	<0.1				0.251 (J)	
3/19/2024	<0.1				0.702	1.2 (J)
3/20/2024		0.0744 (J)	<0.1			
3/21/2024				3.79		
9/10/2024		0.0749 (J)				
9/11/2024	<0.1		<0.1	2.83	0.267	0.743 (J)
9/12/2024						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	5.66	6.49	5.18	7.04					
8/31/2016					6.93	7.21	6.66		
10/25/2016								6.95	
11/30/2016	5.36	6.5	4.96	7.13	6.77	7.23	6.69	6.95	
2/15/2017	5.25	6.51	5.13	7.02				6.85	
2/16/2017					6.89	7.27	6.72		
5/31/2017		6.45		7				6.96	5.29
6/1/2017	5.59		4.99						
6/2/2017					6.83	7.18	6.53		
8/2/2017									5.19
8/15/2017		6.41						6.99	5.19
8/16/2017	5.58			6.88					
8/17/2017			4.68		6.76	7.15	6.28		
4/4/2018									5.19
4/5/2018									
5/8/2018									5.3
5/9/2018									
6/19/2018	5.51	6.32		6.78				6.91	5.15
6/20/2018			4.77		6.83	7.19			
6/21/2018							6.45		
9/25/2018		6.31		6.75					5.13
9/26/2018	5.32		4.65					6.8	
9/27/2018					6.64	7.21	6.48		
11/6/2018				6.92			6.18	5.99	5.08
11/7/2018	5.72	6.3	4.99		6.6	6.91			
3/24/2019		6.4		6.59	6.61	6.98	6.39	6.62	
3/25/2019	5.75		5.13						5.05
8/26/2019				6.62					
8/27/2019	5.58	6.24	4.88					6.23	
8/28/2019					6.69	6.87	6.35		4.87
10/15/2019		6.19		6.58					
10/16/2019	5.72		4.89		6.64			6.54	5.05
10/17/2019						6.86	6.4		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019	5.77				6.58		6.27		
11/21/2019				6.67				6.44	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	5.45								
3/27/2020		6.33	5.12	6.59				6.93	5.09
3/28/2020					6.6	6.8	6.35		
6/16/2020						6.87	6.33		
10/12/2020		6.35							5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/13/2020	5.69		5.17	6.56				6.34	
10/14/2020						6.93	6.32		
10/15/2020					6.52				
1/4/2021					6.66				
3/2/2021		6.34		6.55					
3/3/2021	5.81		5.71					6.58	5.37
3/4/2021					6.52	6.94	6.33		
7/1/2021				6.64					
9/13/2021		6.24		6.3					
9/14/2021	5.13		4.69		6.67	6.94	6.28	6.77	5.5
3/1/2022					6.87	7.24			
3/2/2022	5.32						6.41		5.11
3/3/2022		6.51	4.88	6.49				6.26	
6/28/2022						7.28			
9/20/2022						7.29			
9/21/2022	4.95	6.3	4.91	6.61	6.93		6.27	6.72	4.97
2/28/2023		6.28						6.62	
3/1/2023	4.91		4.76						4.78
3/2/2023				6.54 (D)	6.55	7.38	6.28		
9/12/2023	4.54	6.43	4.45	6.68	6.81				
9/13/2023							6.53	6.55	4.92
9/14/2023						7.3			
3/19/2024		6.55						6.38	
3/20/2024	5.04			6.72					4.18
3/21/2024			5.1		6.66	7.02	6.31		
9/10/2024		6.44						6.11	5.19
9/11/2024	5.01		5.41	6.66	6.94		6.53		
9/12/2024						7.2			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.06					
6/1/2017		5.68				
6/2/2017			5.31			
8/2/2017	5	5.2	5.05			
8/15/2017						
8/16/2017	4.98					
8/17/2017		5.31	5.52			
4/4/2018		4.74	5.45			
4/5/2018	5.02					
5/8/2018		4.78	5.54			
5/9/2018	4.96					
6/19/2018	5.02		5.6			
6/20/2018		4.79				
6/21/2018						
9/25/2018						
9/26/2018	5.06		5.17			
9/27/2018		5.14				
11/6/2018		4.9				
11/7/2018	5.03		5.47			
3/24/2019			5.4			
3/25/2019	5.08	4.93	5.4			
8/26/2019						
8/27/2019		5.05	5.35			
8/28/2019	4.99					
10/15/2019		4.89	5.32			
10/16/2019	4.98					
10/17/2019						
11/7/2019				5.21	3.79	4.25
11/18/2019						4.12
11/19/2019	5.11			5.15	3.78	
11/20/2019		5.03				
11/21/2019						
12/4/2019				5.28	3.87	
12/5/2019						4.17
12/17/2019				4.96		
12/18/2019					3.76	4.2
1/8/2020				5.04	3.77	
1/9/2020						4.19
1/21/2020				5.1	3.73	4.28
2/4/2020				5.15	3.72	4.26
2/13/2020				5.07	3.75	4.2
3/26/2020						
3/27/2020	5.12		5.3	5.14	3.81	4.34
3/28/2020		5.27				
6/16/2020						
10/12/2020						4.29

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/13/2020	5.03	5.25	5.02	5.04	3.72	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			5.16			
3/3/2021	5.06			5.1	3.76	4.37
3/4/2021		5.31				
7/1/2021						
9/13/2021						
9/14/2021	5.04	5.09	5.39	5.31	3.72	4.28
3/1/2022				5.38	3.69	
3/2/2022	5.16		5.37			4.33
3/3/2022		4.98				
6/28/2022						
9/20/2022				5.14	3.63	4.47
9/21/2022	5.14	5.34	5.23			
2/28/2023				5.08	3.7 (D)	4.42
3/1/2023	5.1 (D)	4.93				
3/2/2023			4.45			
9/12/2023			4.4			
9/13/2023		5.29		5.05	3.67	
9/14/2023	5.02					4.17
3/19/2024	4.62			4.97		4.42
3/20/2024		4.41	5.23			
3/21/2024					3.67	
9/10/2024		5.1				
9/11/2024	5.43		4.99	4.61	3.58	4.04
9/12/2024						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	17	6.4	24	4.3					
8/31/2016					290	21	37		
10/25/2016								84	
11/30/2016	33	4.5	26	7.6	240	19	63	52	
2/15/2017	83	37	30	3				190	
2/16/2017					220	22	90		
5/31/2017		61		2.5				260	40
6/1/2017	51		24						
6/2/2017					500	28	210		
8/2/2017									34
8/15/2017				3.2				210	24
8/16/2017	36	130							
8/17/2017			26		510	69	80		
4/4/2018									33.9
4/5/2018									
5/8/2018									35.7
5/9/2018									
6/19/2018	50.3	498		1.6				218	23.7
6/20/2018			31.2			33	46 (J)		
6/21/2018					481				
9/25/2018		790		1					25.6
9/26/2018	54.1		36.8					333 (D)	
9/27/2018					777	29.4	58.5 (J)		
11/6/2018		875			926			182	25.2
11/7/2018	45.6		35	0.41 (J)		734	41.3 (J)		
3/6/2019						1220 (J)			
3/24/2019		1170		1.5	1070	413	131	413	
3/25/2019	43		40.1						24.9
10/15/2019		<5		0.54 (J)					
10/16/2019	31.9		28.5				252	453	17.4
10/17/2019					1230	507			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1550		132		
11/21/2019		1070						428	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	36.2								
3/27/2020		899	31.2	<5				504	23.4
3/28/2020					1090	701	63.8		
4/23/2020						552			
6/16/2020					961	663			
10/12/2020				<5					19.3
10/13/2020	32.3	695	26.8					378	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/14/2020		682			938	531 (D)			
10/15/2020							147		
1/4/2021							262		
3/2/2021		677		1.2					
3/3/2021	33.8		30.5					420	19.9
3/4/2021					982	596	82.2		
7/1/2021		693							
9/13/2021		680		<5					
9/14/2021	34.2		24.4		819	490	459	460	33.1
3/1/2022						440	143		
3/2/2022	30.8				702				19.5
3/3/2022		754	20.4	<5				324	
6/28/2022						213			
9/20/2022						320			
9/21/2022	39	270	24	<5	660		100	330	23
2/28/2023				1.33				334	
3/1/2023	45.3		25.8						21.4
3/2/2023		252			640	157	84.2		
9/12/2023	47.5	160	25.2	1.18			139		
9/13/2023					620			300	42
9/14/2023						263			
3/19/2024				1.7				312	
3/20/2024	45.4	207							34.5
3/21/2024			29.4		360	189	189		
9/10/2024				0.462				323	24.3
9/11/2024	42.1	180	23.2		296		148		
9/12/2024						271			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	46					
6/1/2017		42				
6/2/2017			13			
8/2/2017	43	120	14			
8/15/2017						
8/16/2017	41					
8/17/2017		110	14			
4/4/2018		70.6	13.4			
4/5/2018	33.4					
5/8/2018		61.4	14.8			
5/9/2018	36					
6/19/2018	35.5		15.5			
6/20/2018		25.3				
6/21/2018						
9/25/2018						
9/26/2018	39.6		23			
9/27/2018		63.4				
11/6/2018		136				
11/7/2018	35.8		22.2			
3/6/2019						
3/24/2019						
3/25/2019	34.2	137	22.4			
10/15/2019		105	17.9			
10/16/2019	24.4					
10/17/2019						
11/7/2019				379	1010	832
11/18/2019				737		
11/19/2019					1140	795
11/20/2019						
11/21/2019						
12/4/2019					1020	810
12/5/2019				351		
12/17/2019						535
12/18/2019				274	444 (J)	
1/8/2020					747	603
1/9/2020				254		
1/21/2020				254	798	611
2/4/2020				432	1120	599
2/13/2020				300	833	761
3/26/2020						
3/27/2020	28.6		14.6	219	700	836
3/28/2020		86.6				
4/23/2020						
6/16/2020						
10/12/2020				191		
10/13/2020	27.6	92.3	7.6		638	609

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			8			
3/3/2021	27.6			171	743	708
3/4/2021		99.1				
7/1/2021						
9/13/2021						
9/14/2021	30.4	96.2	16.7	134	659	995
3/1/2022					543	158
3/2/2022	25.7		16	186		
3/3/2022		50.6				
6/28/2022						
9/20/2022				160	750	740
9/21/2022	29	52	6.3			
2/28/2023				186	950	820
3/1/2023	27.4	44.2				
3/2/2023			8.12			
9/12/2023			6.48			
9/13/2023		27.1			832	1300
9/14/2023	28.8			165		
3/19/2024	28			167		810
3/20/2024		73.7	12.3			
3/21/2024					1190	
9/10/2024		103				
9/11/2024	26.2		5.75	149	852	781
9/12/2024						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	86	1310	99	1910					
8/31/2016					5100	4160	3620		
10/25/2016								2900	
11/30/2016	131	1050	111	1910	4680	3950	4030	3970	
2/15/2017	212	1440	170	1870				3820	
2/16/2017					5080	4600	4080		
5/31/2017		1740		1920				5050	257
6/1/2017	103		98						
6/2/2017					8000	4470	5560		
8/2/2017									183
8/15/2017				1840				4820	90
8/16/2017	65	3010							
8/17/2017			84		8320	5450	4620		
4/4/2018									197
4/5/2018									
5/8/2018									225
5/9/2018									
6/19/2018	142	8630		1820				5640	112
6/20/2018			123			4940	3370		
6/21/2018					7500				
9/25/2018		10700		1760					137
9/26/2018	133		117					6770 (D)	
9/27/2018					10200	4480	2360		
11/6/2018		11100			11000			4160	89
11/7/2018	121		120	1800		15100	2230		
3/6/2019						19000			
3/24/2019		14200		1770	13700	13700	1450	6840	
3/25/2019	116		101						74
10/15/2019		15400		1730					
10/16/2019	104		95				2860	7740	82
10/17/2019					13200	16100			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					16700		2640		
11/21/2019		15800						7720	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	114								
3/27/2020		16400	110	1970				10200	87
3/28/2020					18300	18800	1470		
6/16/2020					17900	17800			
10/12/2020				1560					94
10/13/2020	113	15600	115					8750	
10/14/2020					18400	15200			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/15/2020							5100		
1/4/2021							7750		
3/2/2021		12000		1430					
3/3/2021	99		122					8830	66
3/4/2021					17100	14200	1700		
7/1/2021		11200							
9/13/2021		11400		1450					
9/14/2021	66		<25		13400	11800	8020	8820	191
3/1/2022						9040	3780		
3/2/2022	97				12600				124
3/3/2022		11500	104	1400				8120	
6/28/2022						6140			
9/20/2022						3900			
9/21/2022	100	7400	78	1300	9400		2100	6200	110
2/28/2023				1290				6810	
3/1/2023	78		56						67
3/2/2023		3280			10500	3120	1710		
9/12/2023	80	2720	42	1230			2940		
9/13/2023					7440			6310	274
9/14/2023						4240			
3/19/2024				1210				5920	
3/20/2024	84	2480							137
3/21/2024			51		6050	3820	3320		
9/10/2024				1230				5490	79
9/11/2024	70	2480	54		4640		3020		
9/12/2024						5340			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	123					
6/1/2017		97				
6/2/2017			69			
8/2/2017	136	538	35			
8/15/2017						
8/16/2017	124					
8/17/2017		445	51			
4/4/2018		365	90			
4/5/2018	128					
5/8/2018		304	89			
5/9/2018	127					
6/19/2018	143		110			
6/20/2018		114				
6/21/2018						
9/25/2018						
9/26/2018	132		124			
9/27/2018		255				
11/6/2018		388				
11/7/2018	134		125			
3/6/2019						
3/24/2019						
3/25/2019	111	327	98			
10/15/2019		237	107			
10/16/2019	96					
10/17/2019						
11/7/2019				4140	10900	13500
11/18/2019				4030		
11/19/2019					10000	13300
11/20/2019						
11/21/2019						
12/4/2019					11000	13200
12/5/2019				3840		
12/17/2019					9860	
12/18/2019				3880		12500
1/8/2020					9760	12300
1/9/2020				3520		
1/21/2020				3280	10100	12000
2/4/2020				3220	10600	12300
2/13/2020				3580	10900	12400
3/26/2020						
3/27/2020	119		110	3090	14300	14600
3/28/2020		284				
6/16/2020						
10/12/2020				2920		
10/13/2020	118	<25	63		6600	13900
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/15/2020						
1/4/2021						
3/2/2021			40			
3/3/2021	84			2620	11000	11400
3/4/2021		285				
7/1/2021						
9/13/2021						
9/14/2021	76	193	96	2190	14600	10300
3/1/2022					4050	10500
3/2/2022	94		103	3100		
3/3/2022		146				
6/28/2022						
9/20/2022				2000	10000	8600
9/21/2022	90	180	38			
2/28/2023				2090	10400	8720
3/1/2023	73	142				
3/2/2023			35			
9/12/2023			20			
9/13/2023		51			15500	10300
9/14/2023	76			2040		
3/19/2024	50			1960	9800	
3/20/2024		255	65			
3/21/2024						7330
9/10/2024		316				
9/11/2024	64		28	1530	9180	8630
9/12/2024						

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

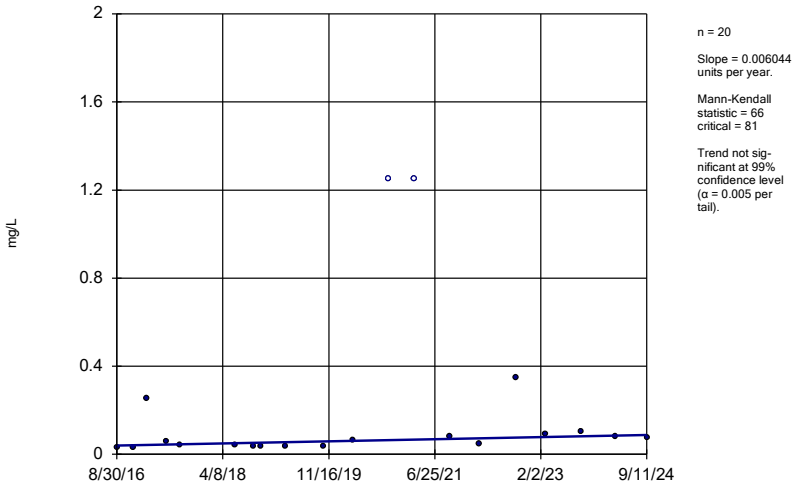
Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.006044	66	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.007634	-55	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001347	38	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01214	39	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.001212	-12	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-16 (bg)	-0.004519	-81	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.01929	-34	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.008783	-14	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01907	-39	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.07198	-70	-92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.0169	69	92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-05	-0.01522	-35	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.00953	26	98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.03042	-76	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.05008	-85	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.009779	-27	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	-0.002819	-7	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-18 (bg)	0.05171	55	68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02771	-37	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 20

Slope = 0.006044 units per year.

Mann-Kendall statistic = 66
critical = 81

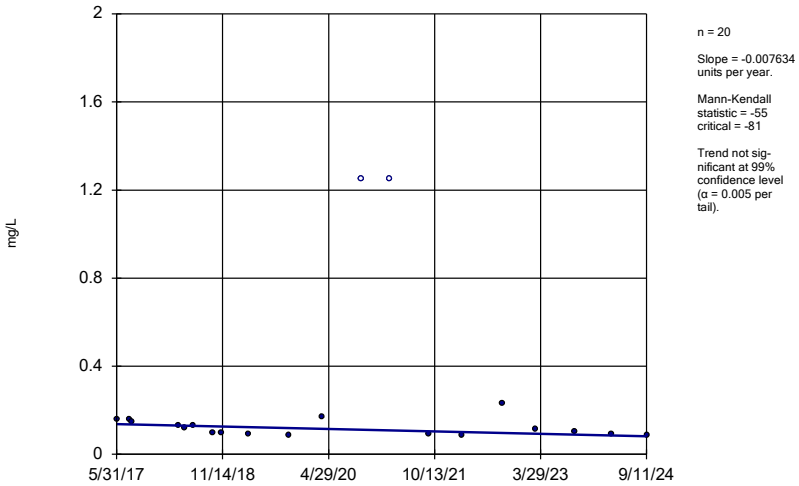
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 20

Slope = -0.007634 units per year.

Mann-Kendall statistic = -55
critical = -81

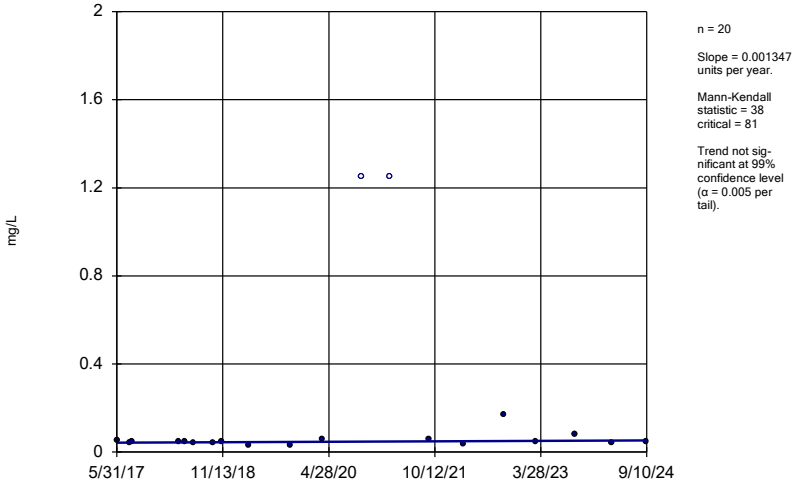
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 20

Slope = 0.001347 units per year.

Mann-Kendall statistic = 38
critical = 81

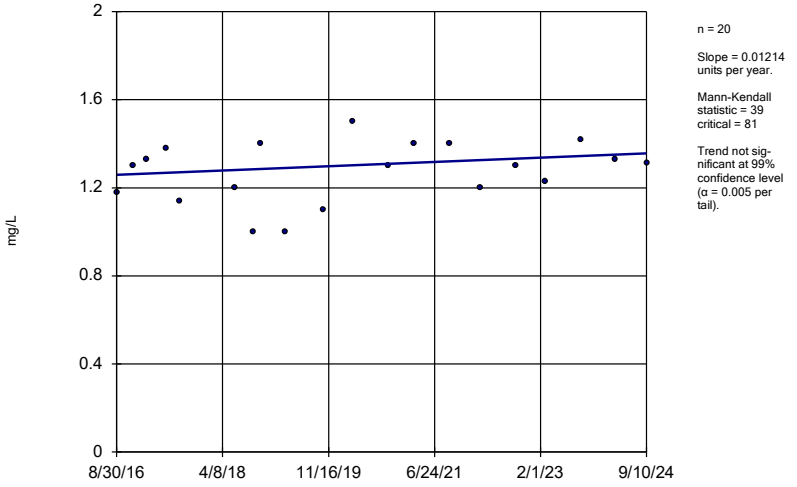
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-12



n = 20

Slope = 0.01214 units per year.

Mann-Kendall statistic = 39
critical = 81

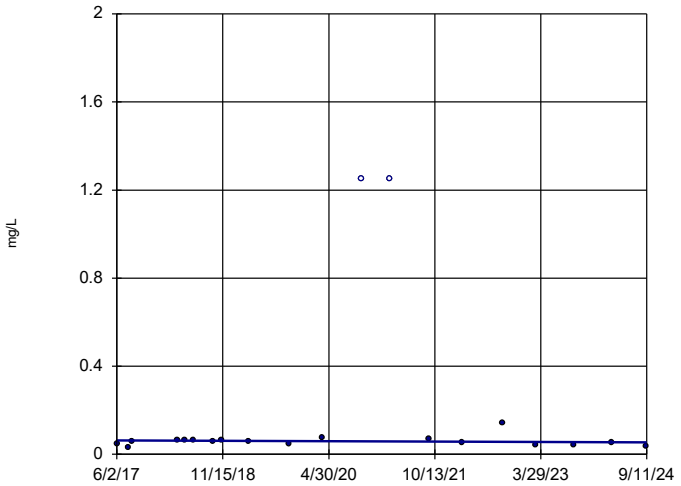
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 20

Slope = -0.001212 units per year.

Mann-Kendall statistic = -12
critical = -81

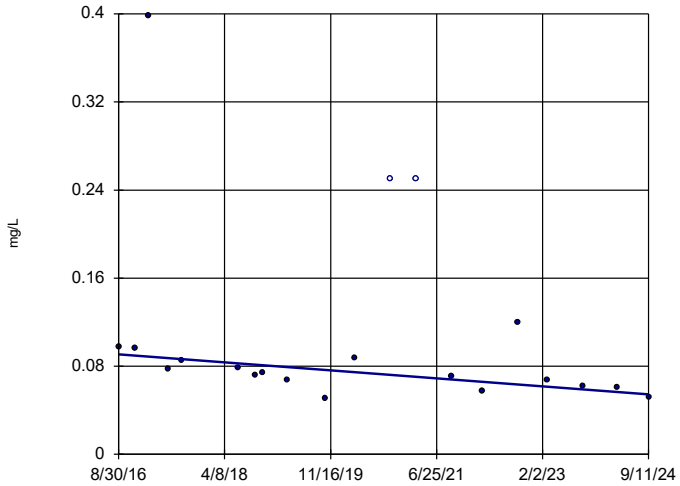
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 20

Slope = -0.004519 units per year.

Mann-Kendall statistic = -81
critical = -81

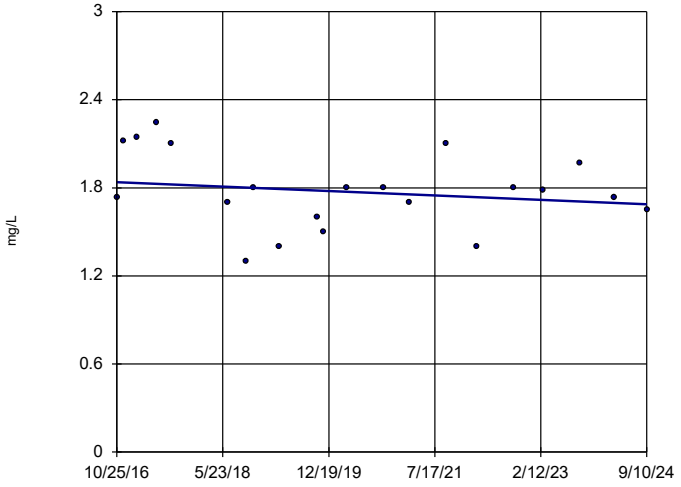
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-17



n = 21

Slope = -0.01929 units per year.

Mann-Kendall statistic = -34
critical = -87

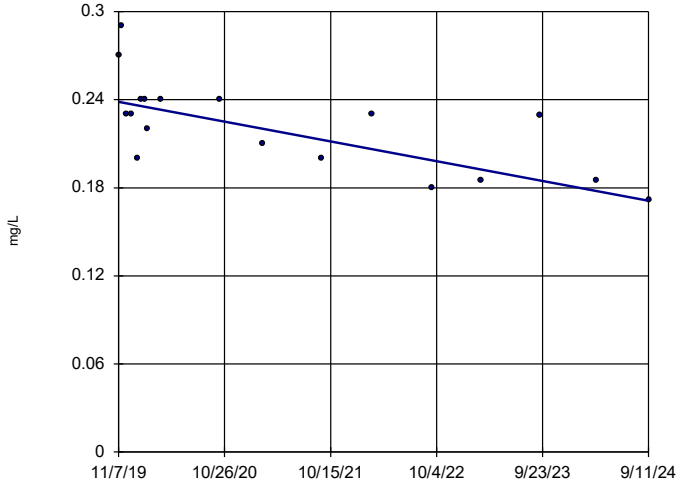
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-18 (bg)



n = 18

Slope = -0.01391 units per year.

Mann-Kendall statistic = -84
critical = -68

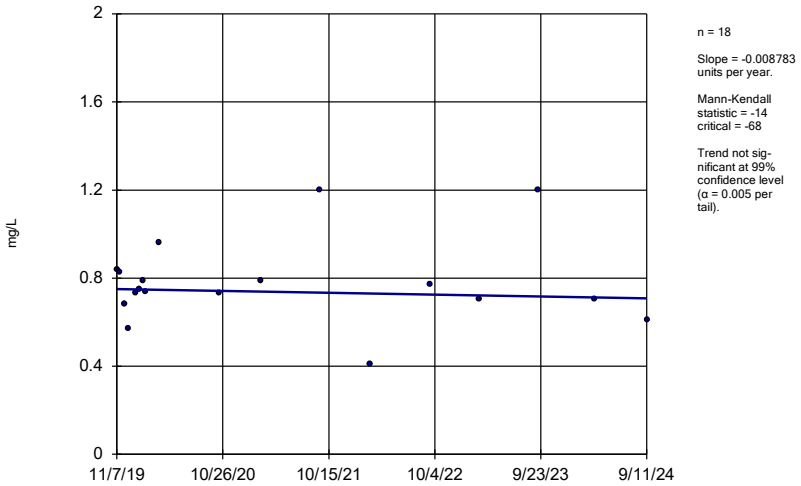
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = -0.008783 units per year.

Mann-Kendall statistic = -14
critical = -68

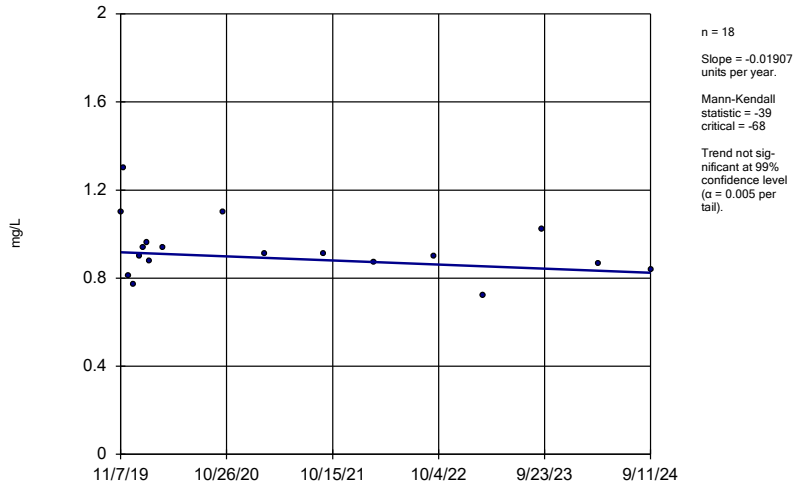
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -0.01907 units per year.

Mann-Kendall statistic = -39
critical = -68

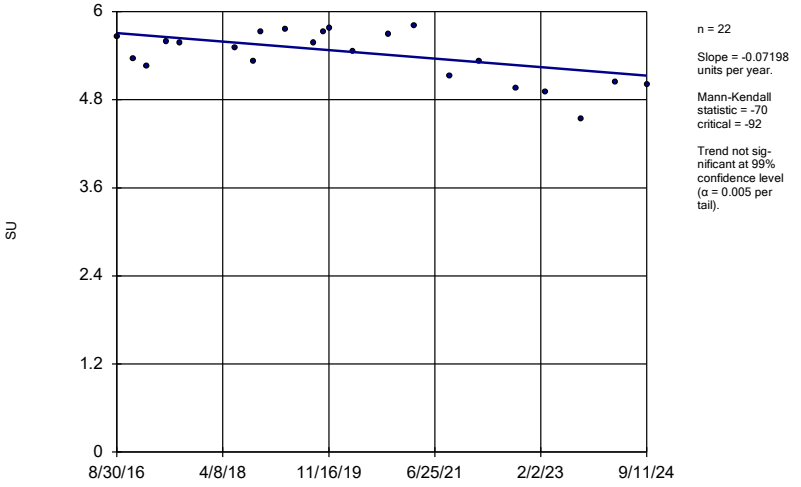
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-01 (bg)



n = 22

Slope = -0.07198 units per year.

Mann-Kendall statistic = -70
critical = -92

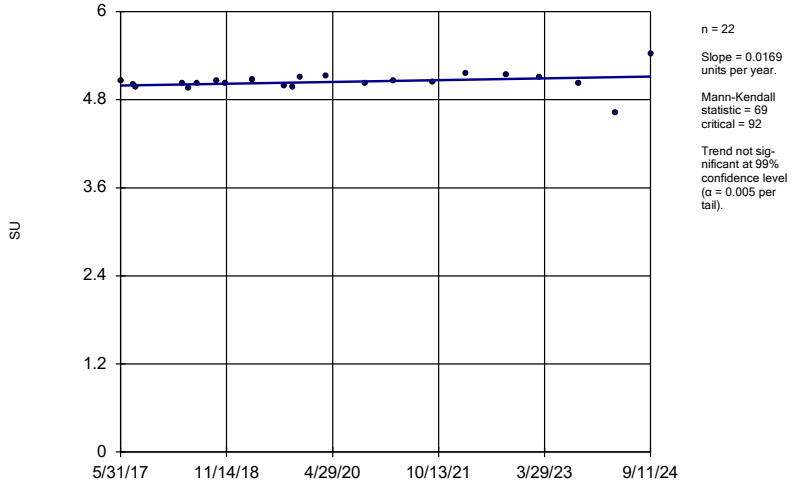
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-02 (bg)



n = 22

Slope = 0.0169 units per year.

Mann-Kendall statistic = 69
critical = 92

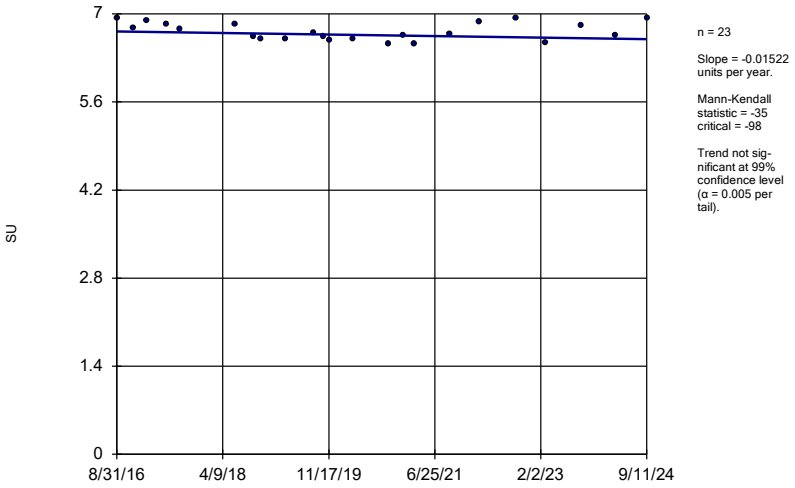
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-05



n = 23

Slope = -0.01522 units per year.

Mann-Kendall statistic = -35
critical = -98

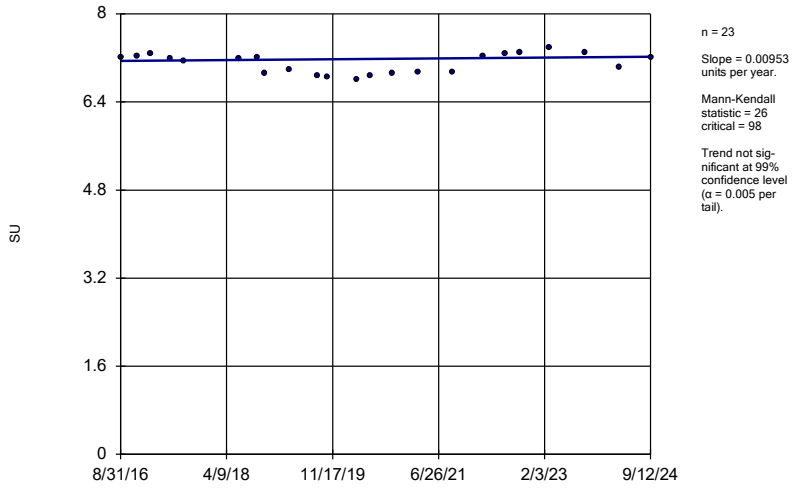
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-06



n = 23

Slope = 0.00953 units per year.

Mann-Kendall statistic = 26
critical = 98

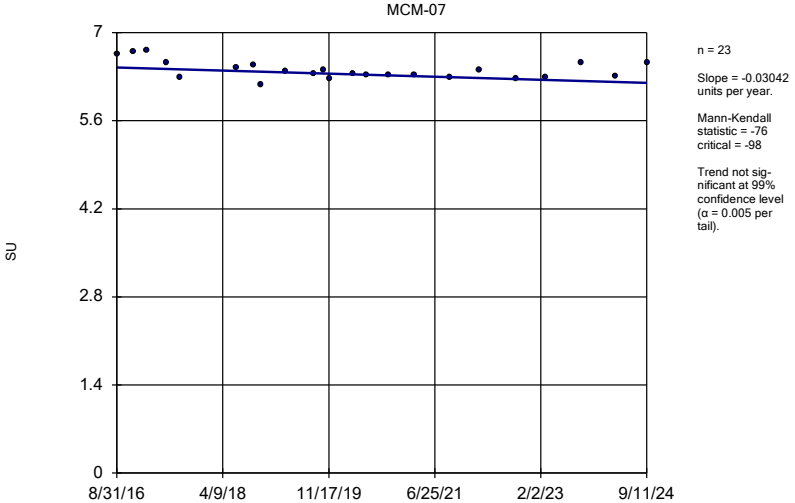
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-07



n = 23

Slope = -0.03042 units per year.

Mann-Kendall statistic = -76
critical = -98

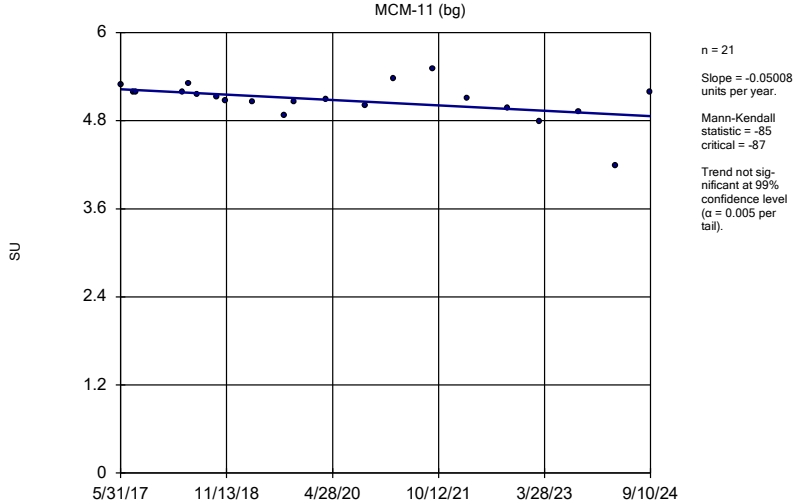
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-11 (bg)



n = 21

Slope = -0.05008 units per year.

Mann-Kendall statistic = -85
critical = -87

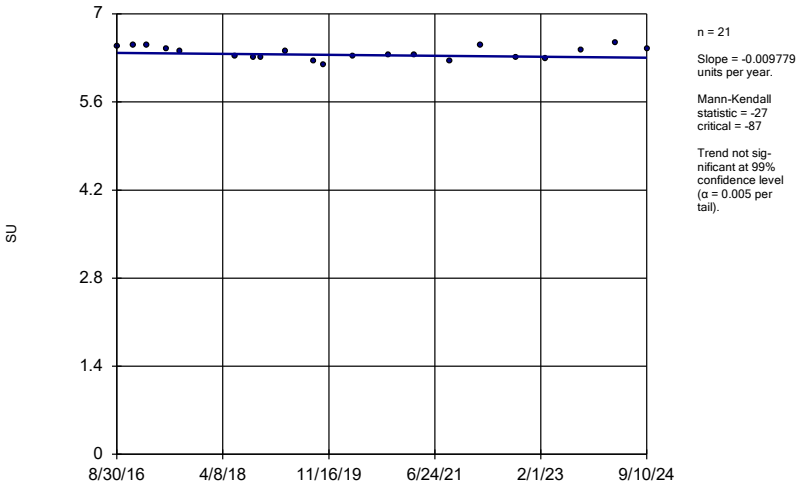
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-12



n = 21

Slope = -0.009779 units per year.

Mann-Kendall statistic = -27
critical = -87

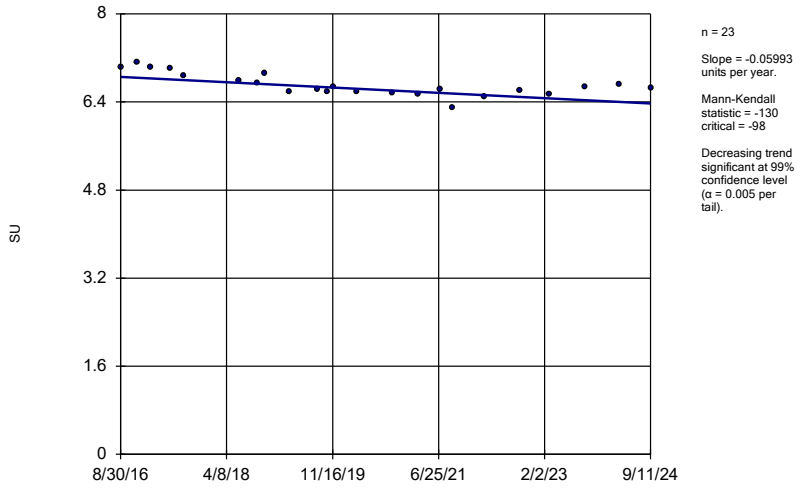
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-14



n = 23

Slope = -0.05993 units per year.

Mann-Kendall statistic = -130
critical = -98

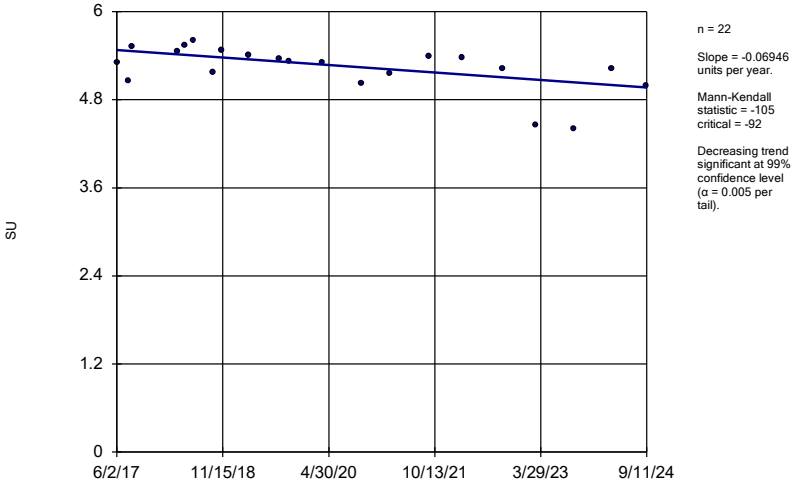
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-15 (bg)



n = 22

Slope = -0.06946 units per year.

Mann-Kendall statistic = -105
critical = -92

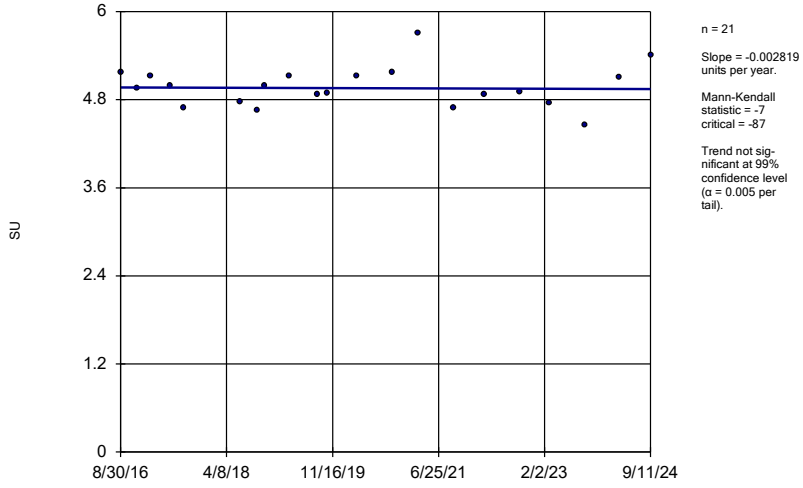
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -0.002819 units per year.

Mann-Kendall statistic = -7
critical = -87

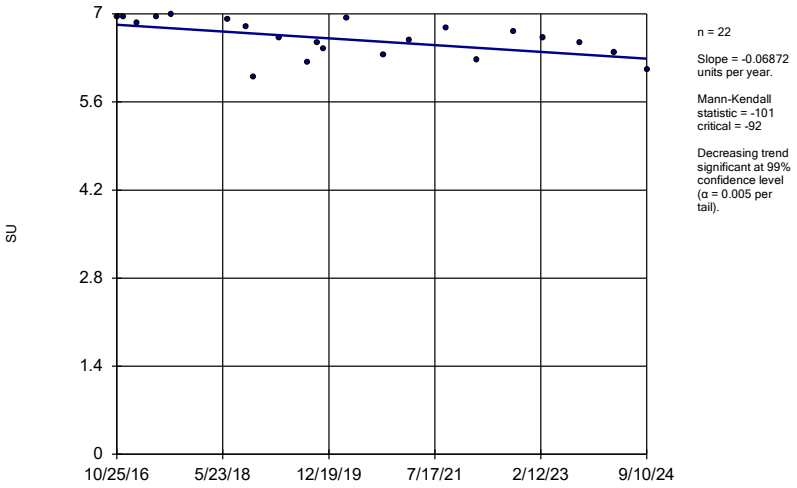
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-17



n = 22

Slope = -0.06872 units per year.

Mann-Kendall statistic = -101
critical = -92

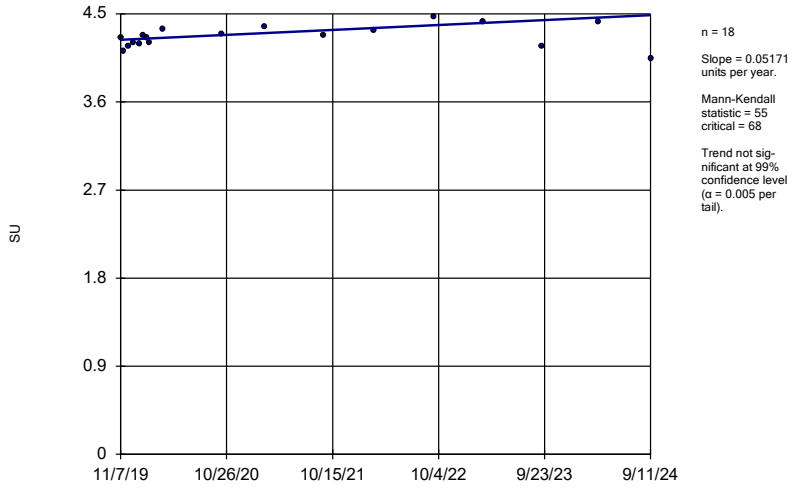
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-18 (bg)



n = 18

Slope = 0.05171 units per year.

Mann-Kendall statistic = 55
critical = 68

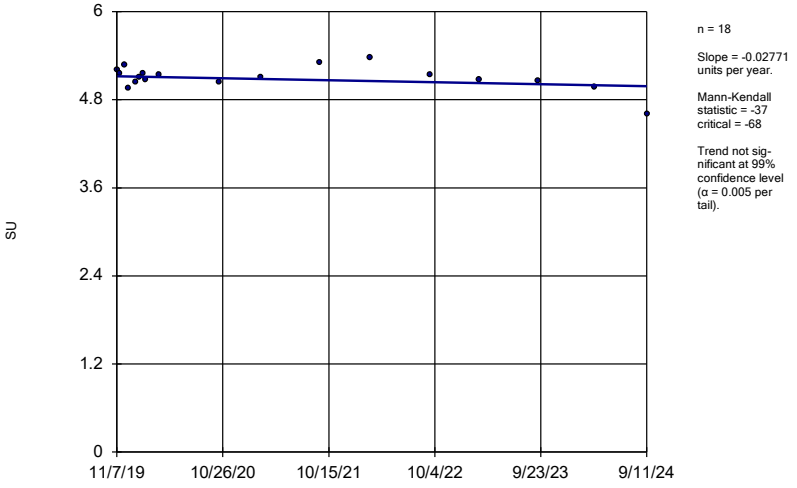
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = -0.02771 units per year.

Mann-Kendall statistic = -37
critical = -68

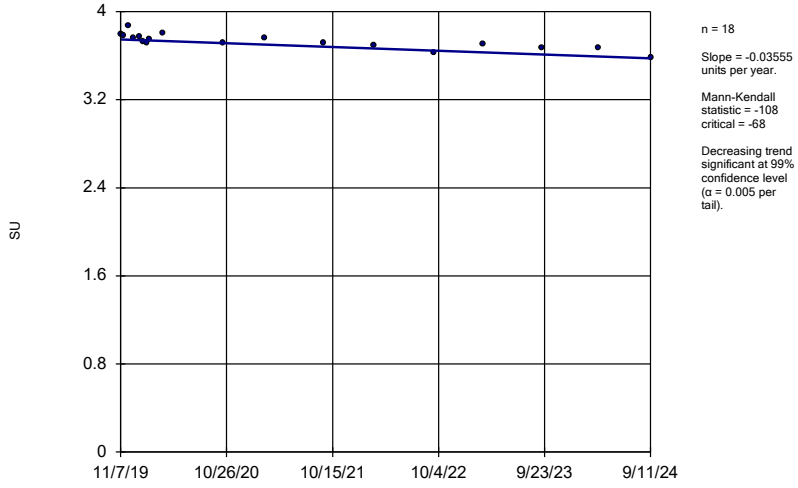
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -0.03555 units per year.

Mann-Kendall statistic = -108
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

FIGURE F.

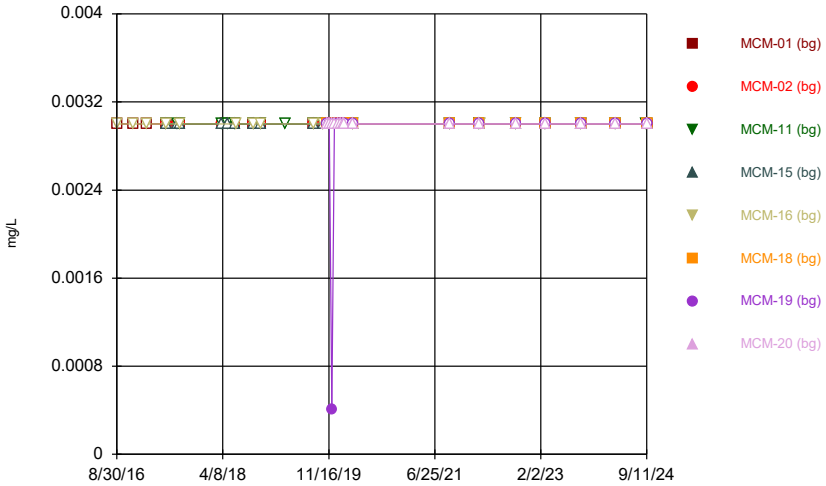
Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:39 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	139	n/a	n/a	99.28	n/a	n/a	0.0008009	NP Inter(NDs)
Arsenic (mg/L)	0.032	157	n/a	n/a	18.47	n/a	n/a	0.0003181	NP Inter(normality)
Barium (mg/L)	0.22	155	n/a	n/a	0	n/a	n/a	0.0003525	NP Inter(normality)
Beryllium (mg/L)	0.021	154	n/a	n/a	30.52	n/a	n/a	0.0003711	NP Inter(normality)
Cadmium (mg/L)	0.0043	137	n/a	n/a	97.08	n/a	n/a	0.0008874	NP Inter(NDs)
Chromium (mg/L)	0.011	139	n/a	n/a	59.71	n/a	n/a	0.0008009	NP Inter(NDs)
Cobalt (mg/L)	0.036	154	n/a	n/a	76.62	n/a	n/a	0.0003711	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	145	n/a	n/a	0	n/a	n/a	0.0005887	NP Inter(normality)
Fluoride (mg/L)	3.98	158	n/a	n/a	49.37	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.005	154	n/a	n/a	88.31	n/a	n/a	0.0003711	NP Inter(NDs)
Lithium (mg/L)	0.0493	151	n/a	n/a	59.6	n/a	n/a	0.0004328	NP Inter(NDs)
Mercury (mg/L)	0.0007	138	n/a	n/a	97.83	n/a	n/a	0.0008431	NP Inter(NDs)
Molybdenum (mg/L)	0.01	138	n/a	n/a	89.86	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	0.0492	131	n/a	n/a	74.81	n/a	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	138	n/a	n/a	97.1	n/a	n/a	0.0008431	NP Inter(NDs)

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

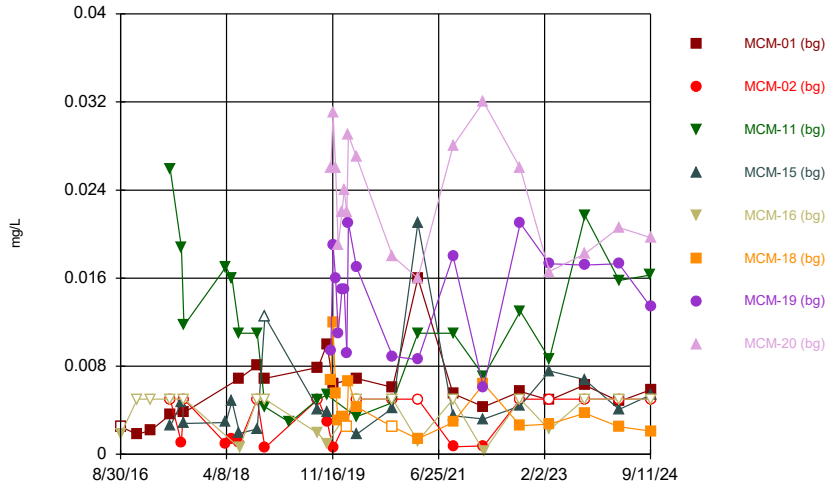
Time Series



Constituent: Antimony Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

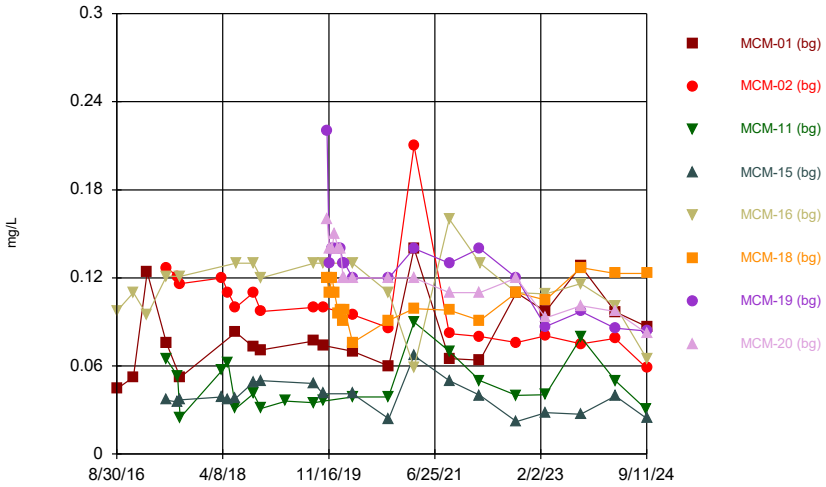
Time Series



Constituent: Arsenic Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

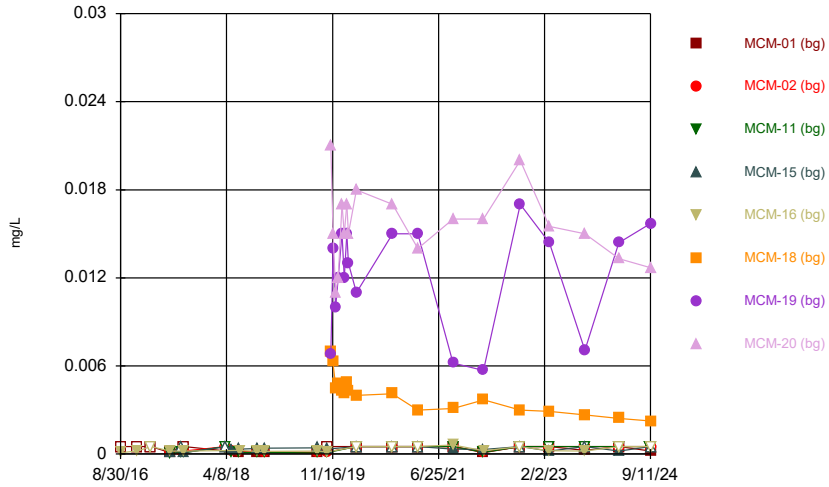
Time Series



Constituent: Barium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

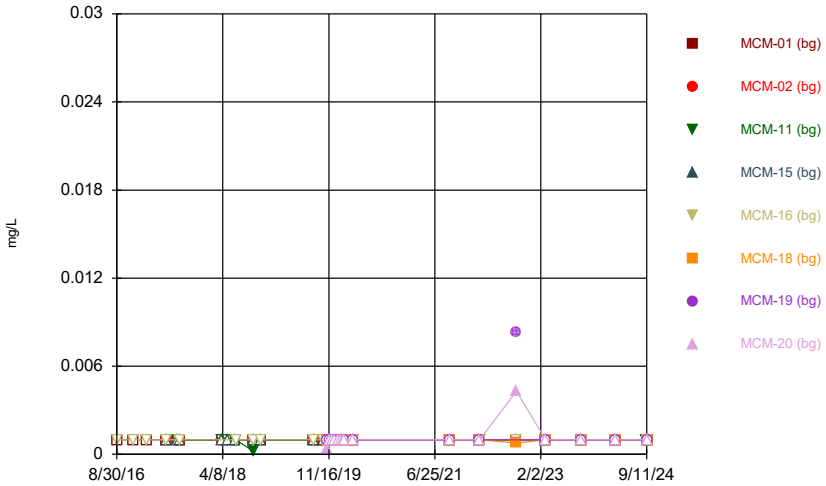
Time Series



Constituent: Beryllium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

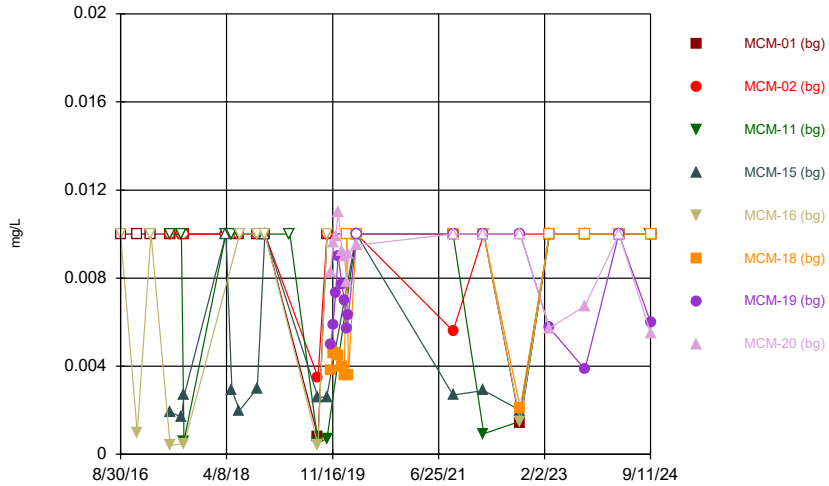
Time Series



Constituent: Cadmium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

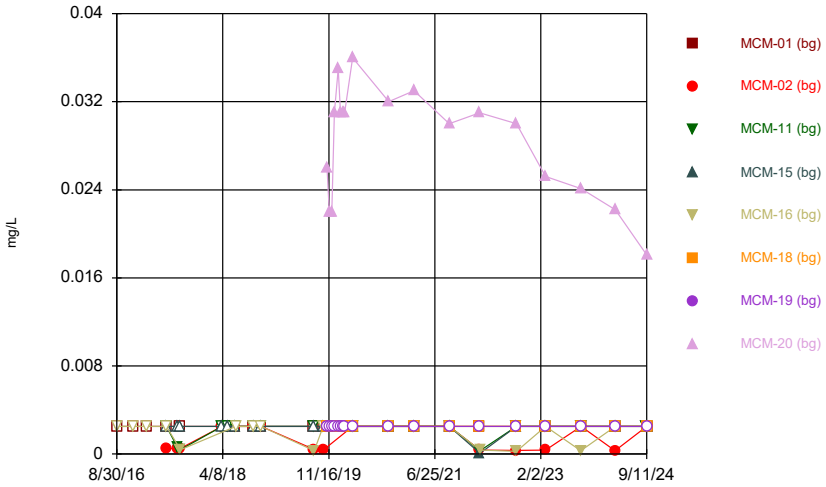
Time Series



Constituent: Chromium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

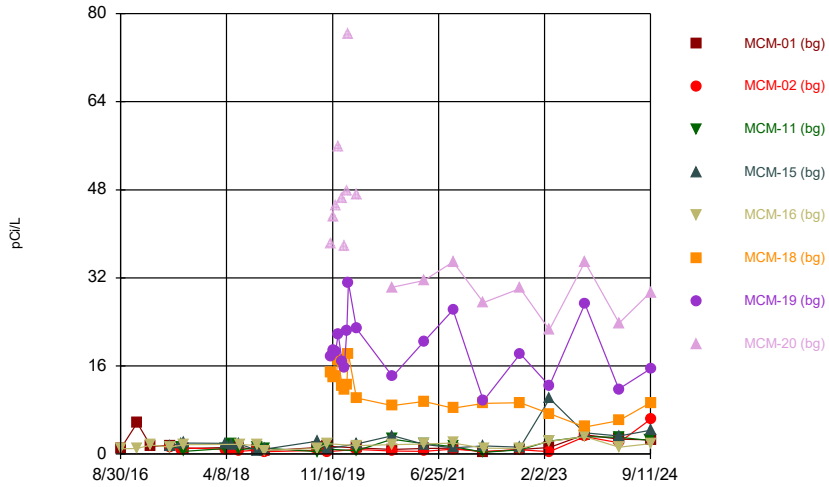
Time Series



Constituent: Cobalt Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

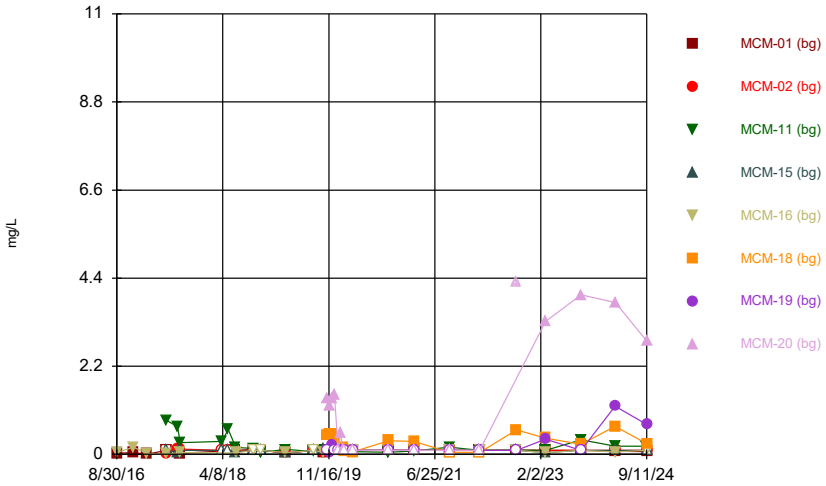
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limit
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

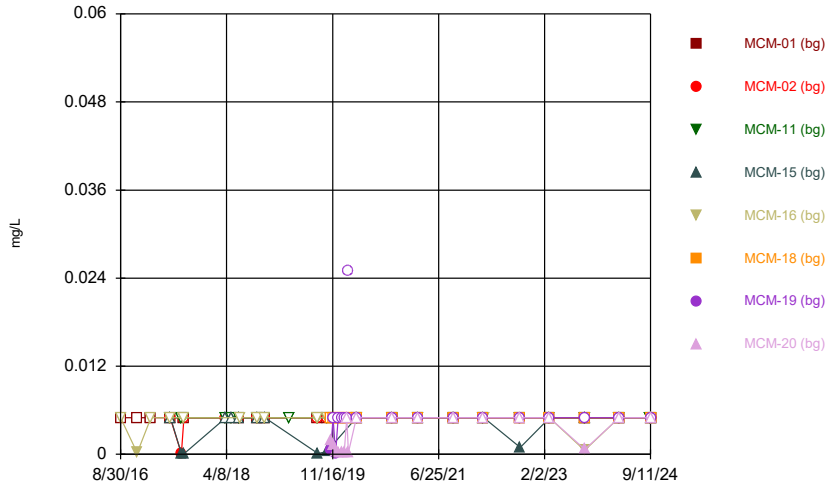
Time Series



Constituent: Fluoride Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

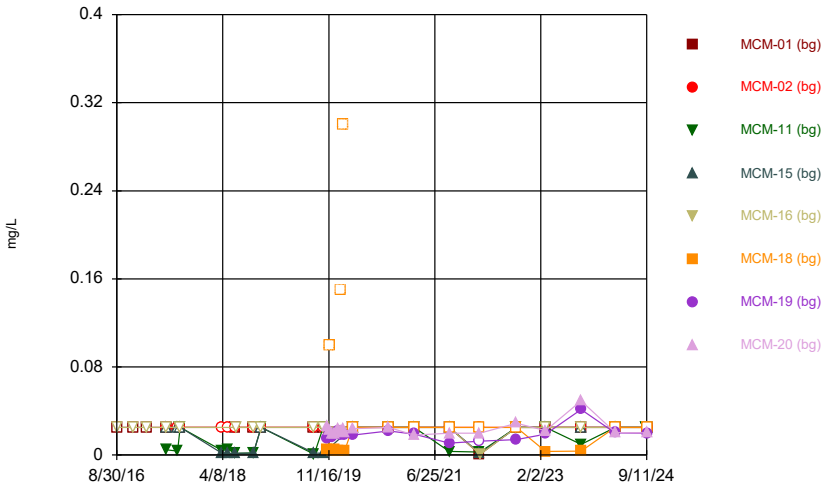
Time Series



Constituent: Lead Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

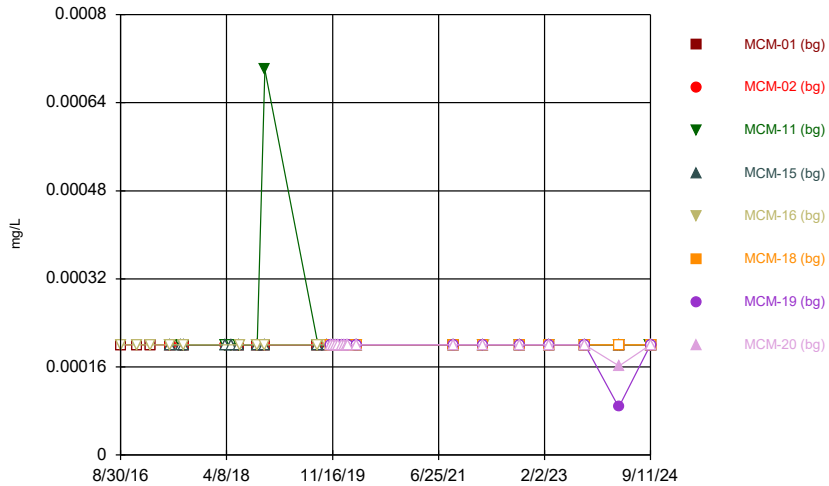
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

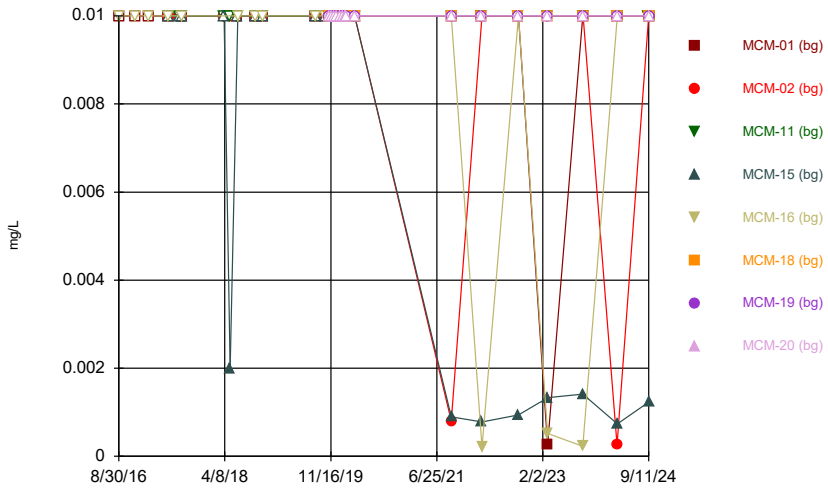
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

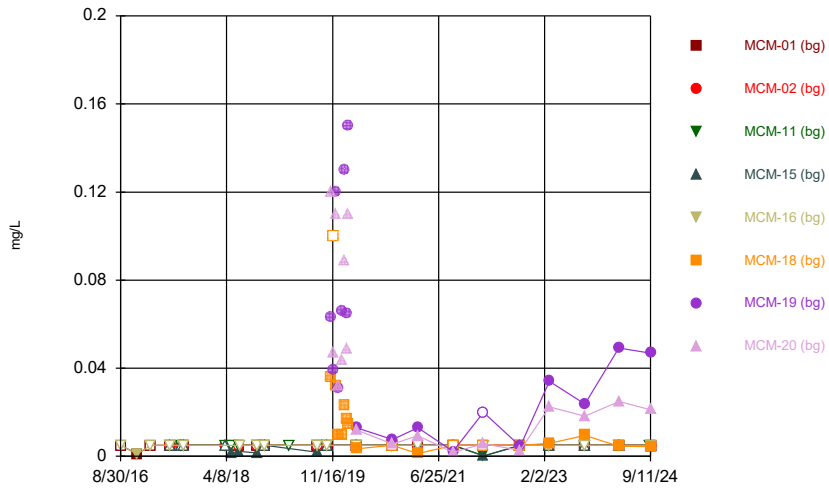
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

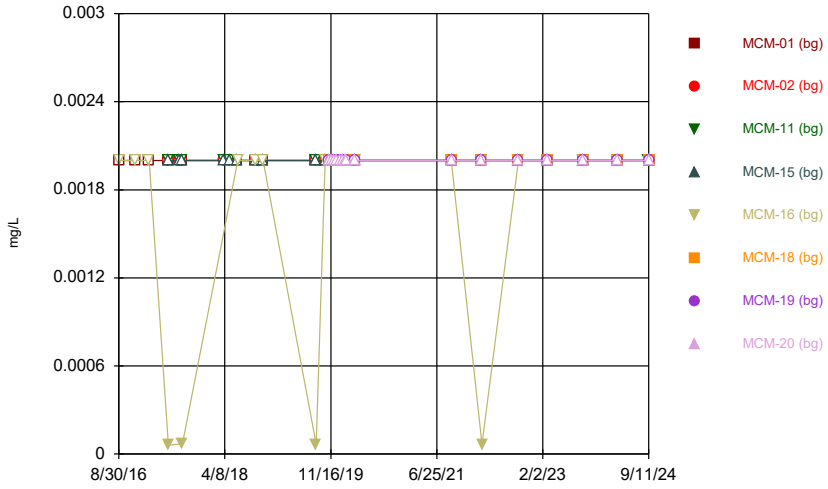
Time Series



Constituent: Selenium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

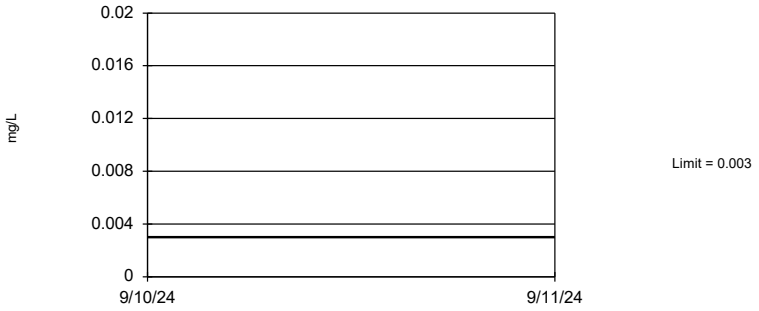


Constituent: Thallium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 139 background values. 99.28% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008009.

Constituent: Antimony Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



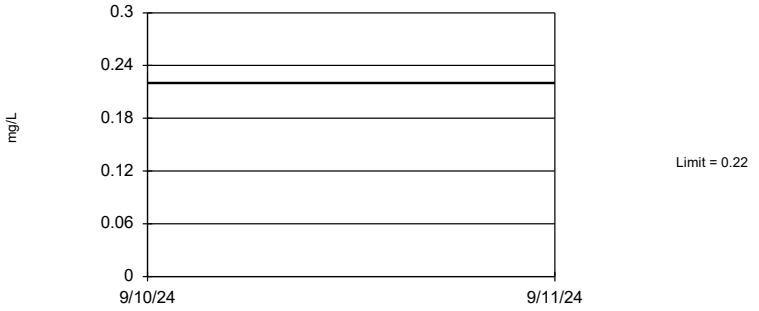
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 157 background values. 18.47% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003181.

Constituent: Arsenic Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



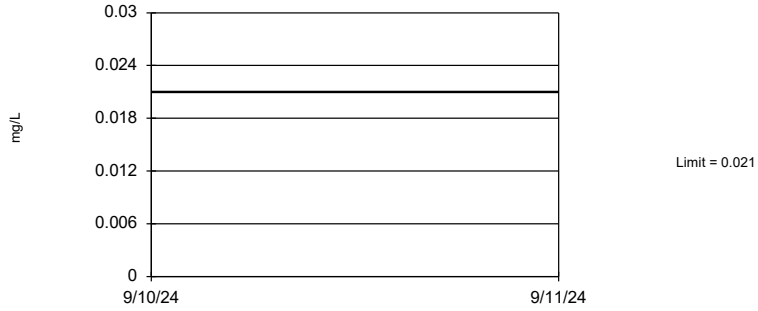
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 155 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Barium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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 154 background values. 30.52% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Beryllium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



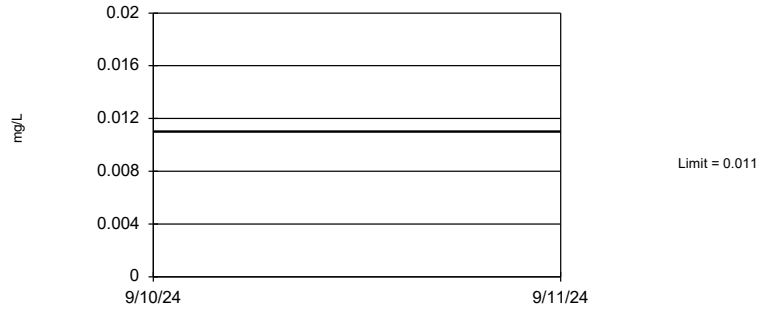
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 137 background values. 97.08% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008874.

Constituent: Cadmium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



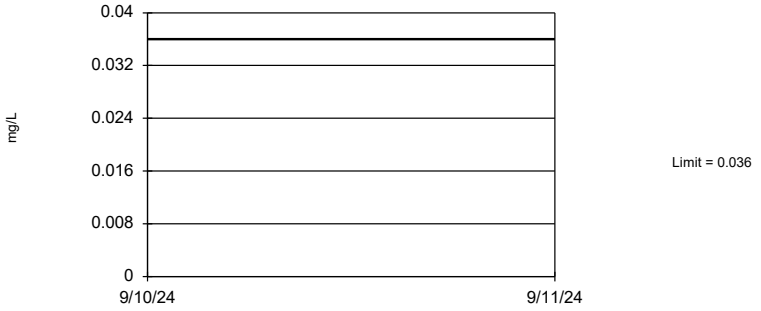
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 139 background values. 59.71% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008009.

Constituent: Chromium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



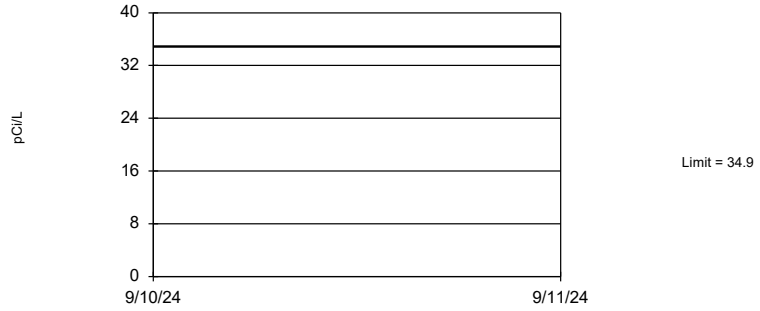
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 76.62% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Cobalt Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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 145 background values. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005887.

Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limit
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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 158 background values. 49.37% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003022.

Constituent: Fluoride Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



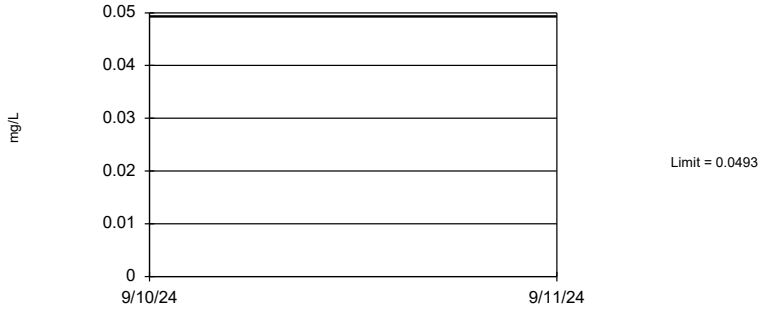
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 88.31% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Lead Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



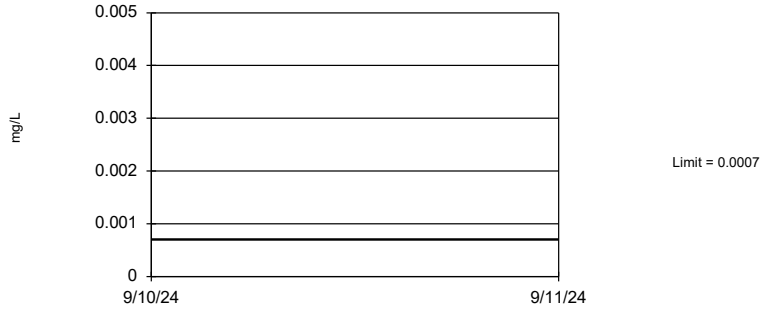
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 151 background values. 59.6% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0004328.

Constituent: Lithium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 97.83% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Mercury Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 89.86% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Molybdenum Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



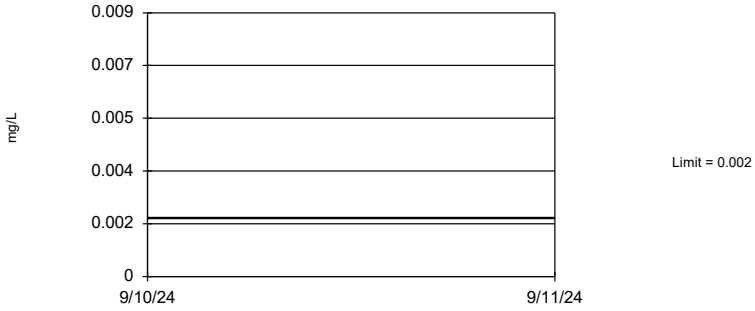
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 131 background values. 74.81% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001207.

Constituent: Selenium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 97.1% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Thallium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

FIGURE G.

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	19	0.002778	0.0006482	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.02342	0.01249	0.032	No	11	0.01795	0.006561	9.091	None	No	0.01	Param.
Arsenic (mg/L)	MCM-04	0.005821	0.002756	0.032	No	20	0.004564	0.003157	10	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01207	0.005141	0.032	No	36	0.01111	0.01052	8.333	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01738	0.01125	0.032	No	35	0.01432	0.007428	0	None	No	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	20	0.003712	0.001849	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.00215	0.032	No	21	0.003947	0.001793	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.00226	0.032	No	21	0.00388	0.001607	47.62	None	No	0.01	NP (normality)
Barium (mg/L)	DPZ-02	0.08305	0.04973	2	No	9	0.06639	0.01726	0	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.07053	0.0342	2	No	20	0.06315	0.06426	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03611	0.01224	2	No	21	0.04324	0.09482	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1217	0.05949	2	No	21	0.0906	0.05639	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1724	0.08945	2	No	20	0.1405	0.09107	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1177	0.08769	2	No	20	0.1027	0.02647	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05008	2	No	20	0.08021	0.05305	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.121	0.06841	2	No	20	0.09472	0.04633	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003689	0.0002002	0.021	No	20	0.0003795	0.0001605	40	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	21	0.0004788	0.00009733	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	20	0.0004386	0.0001502	85	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001299	0.0006575	0.021	No	20	0.001031	0.0006206	10	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	20	0.0004024	0.0001753	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	20	0.0003529	0.0001343	40	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	18	0.0009556	0.0001886	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0012	0.1	No	18	0.006131	0.004458	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	18	0.006502	0.004519	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0011	0.1	No	19	0.007639	0.004061	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0022	0.1	No	18	0.006161	0.003955	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-12	0.00659	0.005357	0.1	No	18	0.007132	0.002036	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	18	0.006265	0.004316	55.56	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01082	0.006253	0.1	No	18	0.009454	0.003531	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.006	0.0025	0.036	No	21	0.004193	0.002189	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-05	0.0025	0.0019	0.036	No	21	0.002365	0.0004997	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.0025	0.0009	0.036	No	21	0.002319	0.0005793	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0025	0.0011	0.036	No	20	0.00232	0.0005672	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.0025	0.0005	0.036	No	20	0.001502	0.001025	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.0025	0.0006	0.036	No	20	0.002405	0.0004249	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.0025	0.0007	0.036	No	20	0.002192	0.0007547	85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.879	6.152	34.9	No	9	8.016	1.93	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.087	2.936	34.9	No	20	4.155	2.126	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.183	1.644	34.9	No	21	2.756	1.976	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.546	3.098	34.9	No	20	4.822	3.037	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.866	5.865	34.9	No	21	7.366	2.72	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.222	2.273	34.9	No	20	2.748	0.8361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.903	3.654	34.9	No	21	5.278	2.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.706	3.716	34.9	No	21	5.211	2.71	0	None	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	9	0.1011	0.003333	88.89	None	No	0.002	NP (NDs)
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	21	0.1265	0.1096	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5215	0.2831	4	No	23	0.4023	0.2279	13.04	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3087	0.1066	4	No	21	0.2702	0.2439	38.1	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.54	0.1	4	No	22	0.3579	0.3214	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.323	1.052	4	No	21	1.154	0.3181	4.762	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	23	0.2074	0.1736	52.17	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

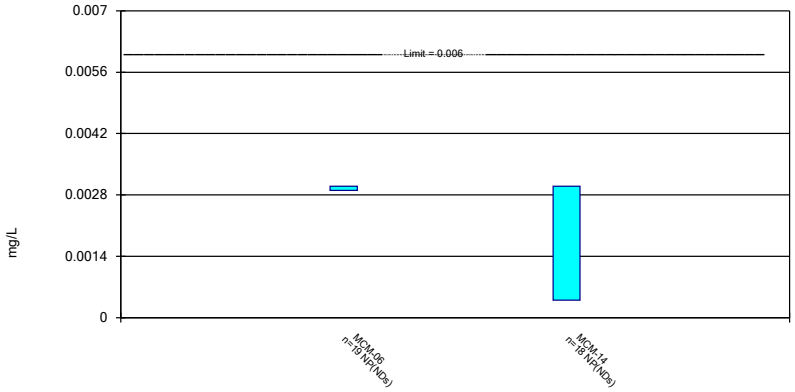
Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8109	0.324	4	No	22	0.646	0.4902	27.27	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MCM-05	0.005	0.0002	0.015	No	21	0.004771	0.001047	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.005	0.00012	0.015	No	21	0.004768	0.001065	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.005	0.0002	0.015	No	20	0.004269	0.001785	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.005	0.00083	0.015	No	20	0.003815	0.002111	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.005	0.00008	0.015	No	20	0.004754	0.0011	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.005	0.00034	0.015	No	20	0.004284	0.001749	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MCM-04	0.025	0.0019	0.049	No	20	0.01578	0.0116	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.0219	0.049	No	21	0.05404	0.1185	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06066	0.03334	0.049	No	5	0.047	0.008153	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.04205	0.02032	0.049	No	22	0.03751	0.0321	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.0123	0.0104	0.049	No	20	0.01305	0.005279	15	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-14	0.0415	0.02322	0.049	No	22	0.03236	0.01703	9.091	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.0259	0.01691	0.049	No	20	0.02141	0.00791	5	None	No	0.01	Param.
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	18	0.0002283	0.0001202	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	18	0.0001912	0.00003724	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	19	0.0001979	0.000009177	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	18	0.0002261	0.0001108	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	18	0.0002256	0.0001084	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	18	0.0002244	0.0001037	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.01	0.000217	0.1	No	7	0.007209	0.004767	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.01	0.00015	0.1	No	18	0.009453	0.002322	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.01	0.00095	0.1	No	18	0.006988	0.004372	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.01	0.0013	0.1	No	19	0.00598	0.004372	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-07	0.01	0.000963	0.1	No	18	0.007509	0.004134	72.22	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.01	0.00055	0.1	No	18	0.007867	0.004106	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.01	0.00102	0.1	No	18	0.008419	0.00364	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00176	0.05	No	9	0.01987	0.01018	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	20	0.0044	0.001525	85	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	21	0.004481	0.001106	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	21	0.004476	0.001613	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.0025	0.05	No	20	0.004209	0.001232	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	20	0.003738	0.001602	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	20	0.004315	0.001341	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	20	0.004397	0.0018	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	19	0.001899	0.0004414	94.74	None	No	0.01	NP (NDs)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

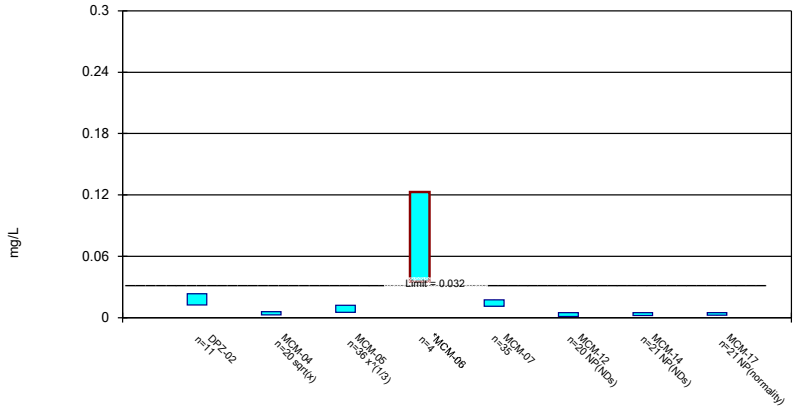


Constituent: Antimony Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

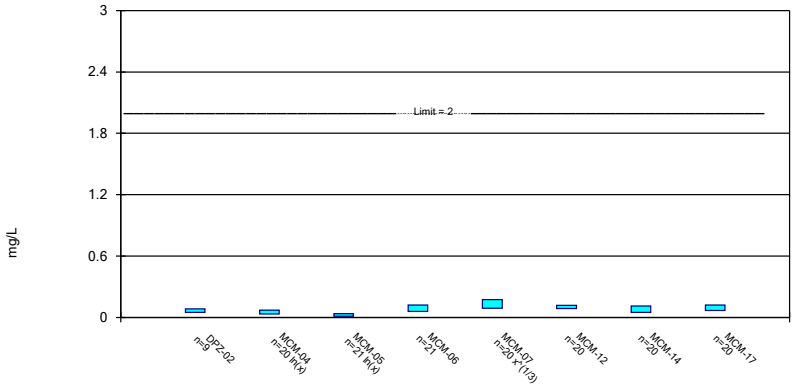


Constituent: Arsenic Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

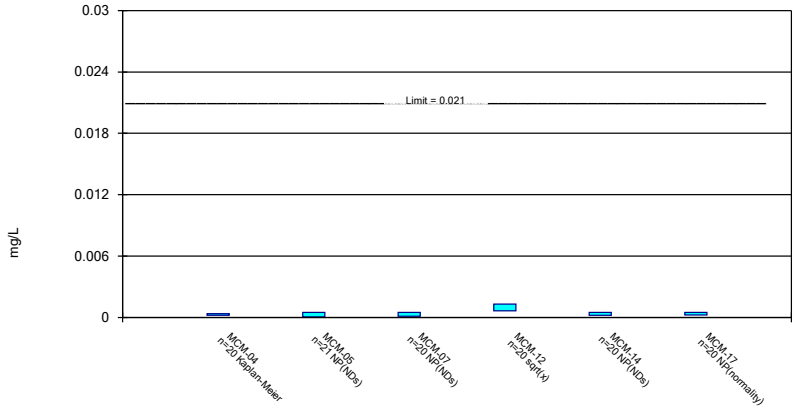


Constituent: Barium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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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.

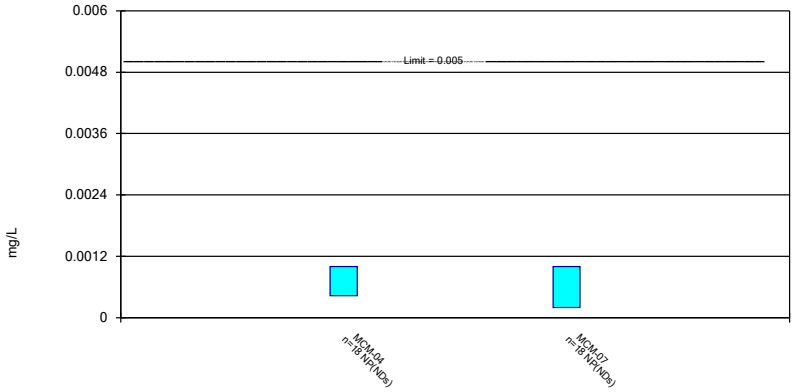


Constituent: Beryllium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

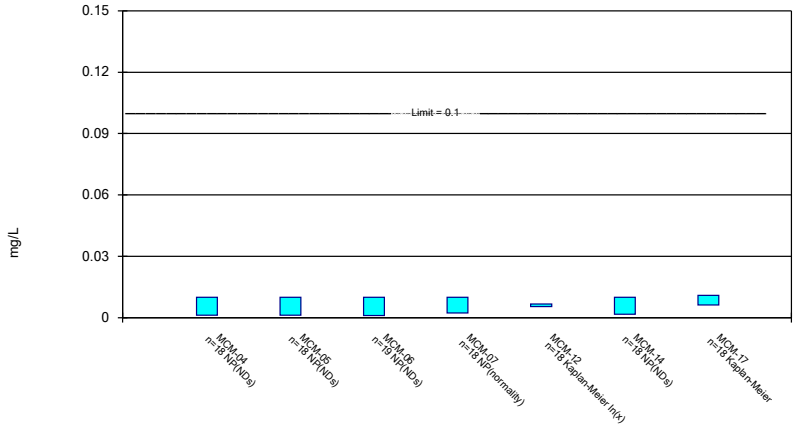


Constituent: Cadmium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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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.

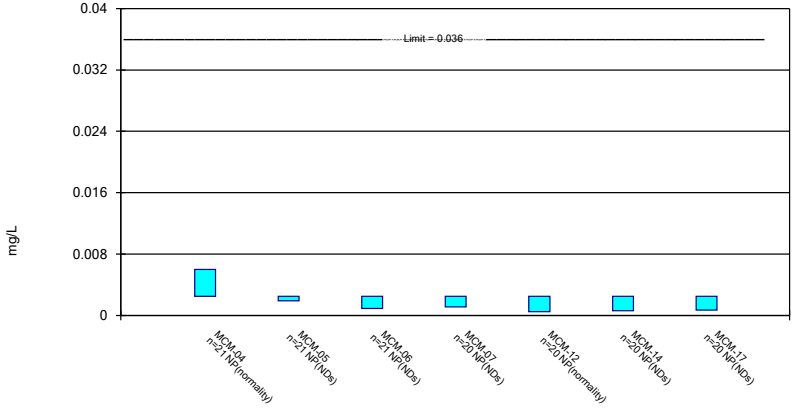


Constituent: Chromium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

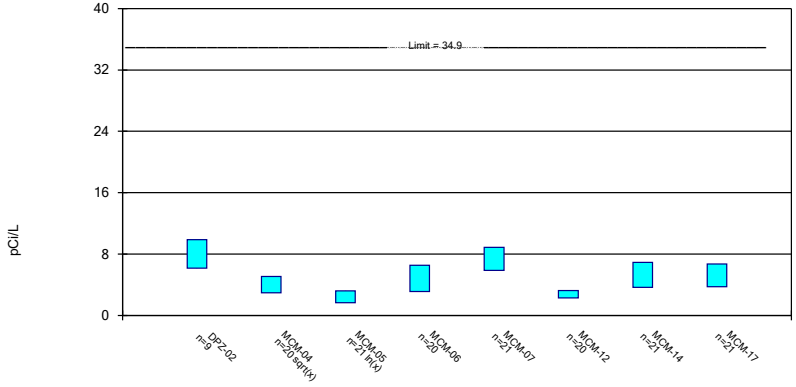


Constituent: Cobalt Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

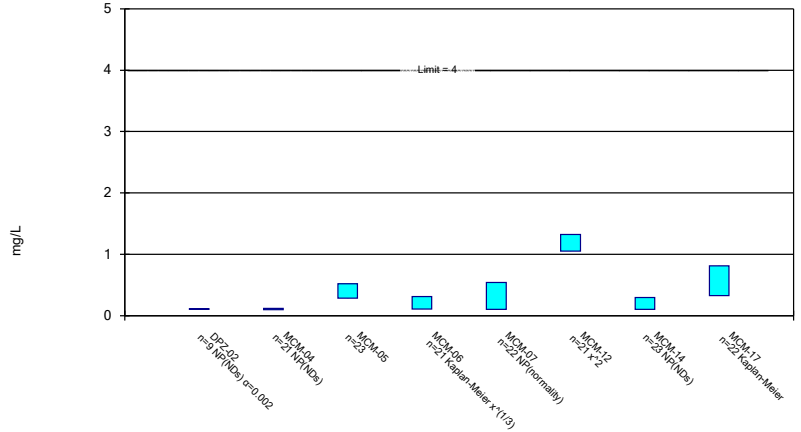


Constituent: Combined Radium 226 + 228 Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

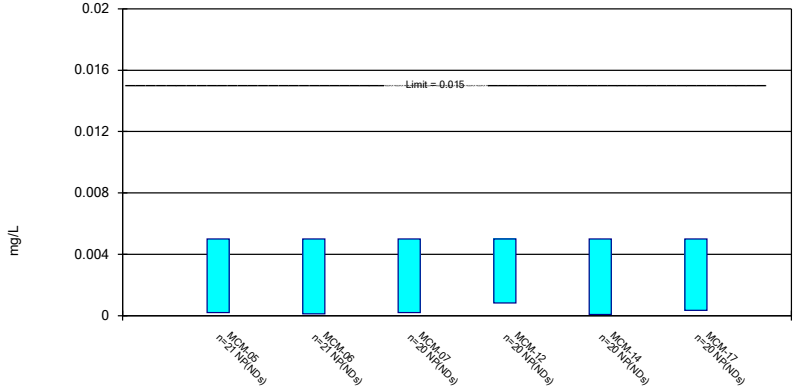


Constituent: Fluoride Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

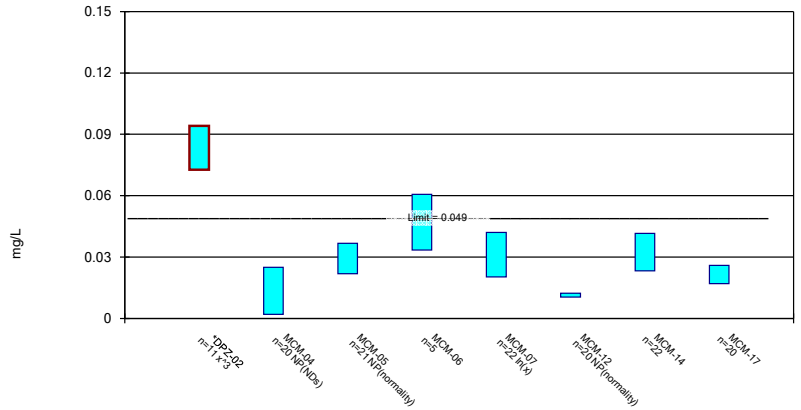


Constituent: Lead Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

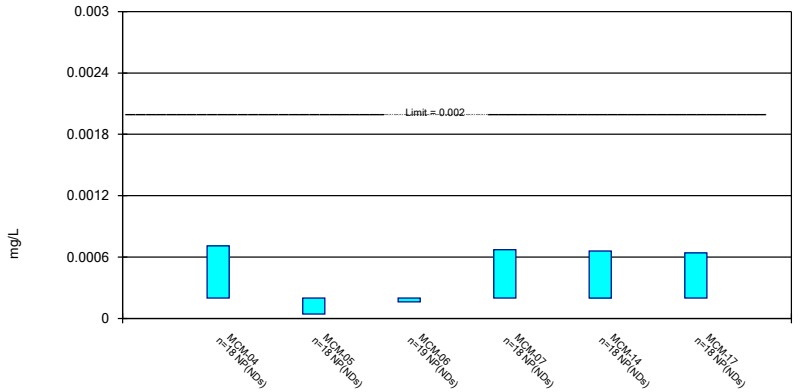


Constituent: Lithium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

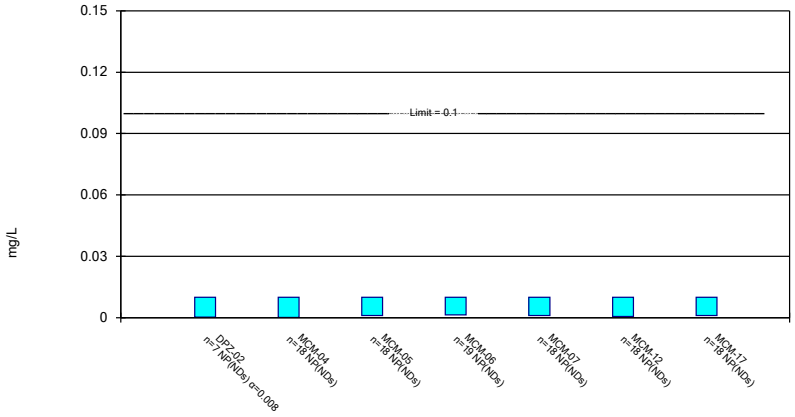


Constituent: Mercury Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

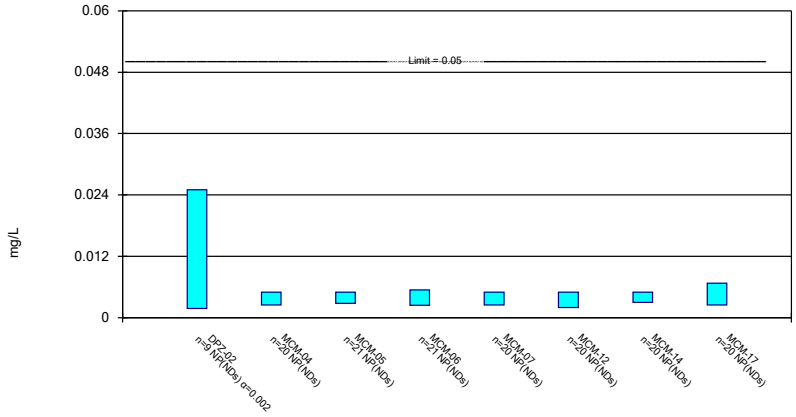


Constituent: Molybdenum Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

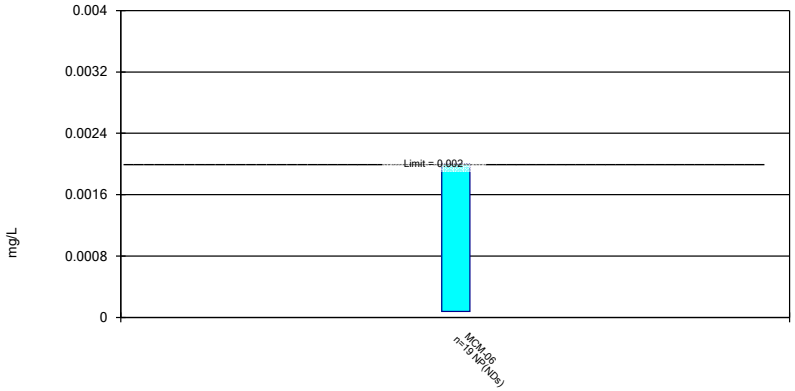


Constituent: Selenium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-06	MCM-14
8/30/2016		<0.003
8/31/2016	<0.003	
11/30/2016	<0.003	<0.003
2/15/2017		<0.003
2/16/2017	<0.003	
5/31/2017		<0.003
6/2/2017	<0.003	
8/16/2017		<0.003
8/17/2017	<0.003	
6/19/2018		<0.003
6/20/2018	<0.003	
9/25/2018		<0.003
9/27/2018	<0.003	
11/6/2018		<0.003
11/7/2018	<0.003	
3/6/2019	<0.003	
8/26/2019		0.0004 (J)
8/28/2019	0.00098 (J)	
10/15/2019		<0.003
10/17/2019	0.0009 (J)	
3/27/2020		<0.003
3/28/2020	0.0029 (J)	
9/13/2021		<0.003
9/14/2021	<0.003	
3/1/2022	<0.003	
3/3/2022		<0.003
9/20/2022	<0.003	
9/21/2022		<0.003
3/2/2023	<0.003	<0.003
9/12/2023		<0.003
9/14/2023	<0.003	
3/20/2024		<0.003
3/21/2024	<0.003	
9/11/2024		<0.003
9/12/2024	<0.003	
Mean	0.002778	0.002856
Std. Dev.	0.0006482	0.0006128
Upper Lim.	0.003	0.003
Lower Lim.	0.0029	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						<0.005	<0.005	
8/31/2016			<0.02	0.212	0.0066			
10/25/2016								<0.005
11/30/2016			0.0132	0.129	0.0281	<0.005	<0.005	0.0072
2/15/2017						<0.005	<0.005	0.0017 (J)
2/16/2017			0.0372	0.257	0.0295			
5/31/2017						0.0007 (J)	0.0008 (J)	0.0018 (J)
6/1/2017		0.004 (J)						
6/2/2017			0.0335	0.0559	0.0286			
8/2/2017		0.0028 (J)						
8/15/2017						0.0006 (J)		0.0015 (J)
8/16/2017							0.0007 (J)	
8/17/2017		0.0021 (J)	0.0336	0.458	0.0211			
2/20/2018			0.0267	0.305	0.0271			
4/4/2018		0.0023 (J)						
4/30/2018			0.025 (J)	0.36	0.016 (J)			
5/8/2018		0.0048 (J)						
6/19/2018						0.001 (J)	0.0062 (J)	0.0029 (J)
6/20/2018		0.0099	0.019	0.44				
6/21/2018					0.022 (J)			
7/24/2018			0.0079	0.45	0.014			
8/28/2018			0.0079	0.36	0.014			
9/25/2018						0.0011 (J)	0.0031 (J)	
9/26/2018								0.0015 (J)
9/27/2018		0.01	0.0035 (J)	0.27	0.015			
10/30/2018			0.0029 (J)	0.42	0.0061			
11/6/2018		0.013			0.012		0.0014 (J)	<0.005
11/7/2018			0.002 (J)	0.5		<0.005		
11/27/2018			0.0016 (J)	0.5	0.011			
12/18/2018			0.0043 (J)	0.6	0.018			
1/22/2019			0.0028 (J)	0.48	0.0097			
2/22/2019			0.00095 (J)	0.46	0.024 (J)			
3/6/2019				0.49				
3/26/2019			0.0018 (J)	0.3	0.0078			
6/4/2019			0.0019 (J)	0.41	0.017			
7/2/2019			0.0024 (J)	0.37	0.027			
7/29/2019			0.0021 (J)	0.45	0.0053			
8/26/2019			0.0021 (J)	0.46	0.0052		0.0022 (J)	
8/27/2019		0.0072				0.0011 (J)		0.0024 (J)
8/28/2019			0.0019 (J)	0.5	0.011			
9/30/2019			0.002 (J)		0.0036 (J)			
10/2/2019				0.6				
10/15/2019		0.0038 (J)				0.0024 (J)	0.0067	
10/16/2019			0.0047 (J)					0.0043 (J)
10/17/2019				0.34	0.0046 (J)			
11/21/2019								0.0031 (J)
3/27/2020						<0.005	<0.005	<0.005
3/28/2020	<0.005	0.0034 (J)	<0.02	0.3	0.012			
6/16/2020				0.51				
10/12/2020						<0.005		
10/13/2020		0.0022 (J)					<0.005	<0.005
10/14/2020				0.44 (D)	0.013		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
10/15/2020	0.021		0.024					
1/4/2021			0.0072					
3/2/2021						<0.005	<0.005	
3/3/2021								<0.005
3/4/2021	0.017 (J)	0.0018 (J)	<0.02	0.35	0.015 (J)			
9/13/2021						<0.005	<0.005	
9/14/2021	0.022	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005
3/1/2022	0.015 (J)		0.011 (J)	0.24				
3/2/2022					0.009 (J)			
3/3/2022		0.0041				<0.005	<0.005	<0.005
6/28/2022	0.025			0.17				
9/20/2022	0.021			0.18				
9/21/2022		0.0017 (J)	0.0077		0.01	<0.005	<0.005	<0.005
2/28/2023						<0.005		0.00226 (J)
3/1/2023		0.00247 (J)						
3/2/2023	0.0202		0.00578 (J)	0.0764	0.014		0.00201 (J)	
9/12/2023			0.0113			0.00234 (J)	0.00263 (J)	
9/13/2023		0.00601			0.0117			0.00283 (J)
9/14/2023	0.0254			0.0653				
3/19/2024						<0.005		<0.005
3/20/2024		<0.005					<0.005	
3/21/2024	0.0163 (J)		0.017	0.0675	0.0107 (J)			
9/10/2024		<0.005				<0.005		<0.005
9/11/2024	0.0121		0.0249		0.00833		0.00215 (J)	
9/12/2024				0.107				
Mean	0.01795	0.004564	0.01111	0.07905	0.01432	0.003712	0.003947	0.00388
Std. Dev.	0.006561	0.003157	0.01052	0.01924	0.007428	0.001849	0.001793	0.001607
Upper Lim.	0.02342	0.005821	0.01207	0.1227	0.01738	0.005	0.005	0.005
Lower Lim.	0.01249	0.002756	0.005141	0.03537	0.01125	0.0011	0.00215	0.00226

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.108	0.0131	
8/31/2016			0.0289	0.0498	0.0771			
10/25/2016								0.063
11/30/2016			0.0168	0.0528	0.101	0.121	0.0105	0.0628
2/15/2017						0.111	0.0786	0.0102
2/16/2017			0.016	0.0555	0.0865			
5/31/2017						0.131	0.0199	0.061
6/1/2017		0.0195						
6/2/2017			0.0393 (J)	0.0508	0.123			
8/2/2017		0.053						
8/15/2017						0.126		0.0579
8/16/2017							0.033	
8/17/2017		0.0475	0.0188	0.0596	0.124			
4/4/2018		0.035						
5/8/2018		0.027						
6/19/2018						0.13	0.092	0.076
6/20/2018		0.027	0.014	0.06				
6/21/2018					0.1			
9/25/2018						0.12	0.098	
9/26/2018								0.099
9/27/2018		0.14	0.0097 (J)	0.06	0.12			
11/6/2018		0.31			0.12		0.1	0.052
11/7/2018			0.0085 (J)	0.19		0.11		
3/6/2019				0.16				
8/26/2019							0.12	
8/27/2019		0.083				0.14		0.11
8/28/2019			0.011	0.13	0.4			
10/15/2019		0.082				0.14	0.12	
10/16/2019			0.012					0.14
10/17/2019				0.13	0.35			
3/27/2020						0.12	0.13	0.16
3/28/2020		0.039	0.0041 (J)	0.12	0.11			
10/12/2020						0.1		
10/13/2020		0.055					0.14	0.14
10/14/2020				0.14	0.19			
10/15/2020	0.071		0.45					
1/4/2021			0.051					
3/2/2021						0.1	0.16	
3/3/2021								0.17
3/4/2021	0.096	0.062	0.0082 (J)	0.14	0.2			
9/13/2021						0.086	0.16	
9/14/2021	0.082	0.043	0.08	0.22	0.2			0.2
3/1/2022	0.074		0.035	0.084				
3/2/2022					0.12			
3/3/2022		0.031				0.069	0.15	0.1
9/20/2022	0.069			0.027				
9/21/2022		0.029	0.014		0.12	0.068	0.059	0.089
2/28/2023						0.071 (J)		0.0828 (J)
3/1/2023		0.031 (J)						
3/2/2023	0.0601 (J)		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)	
9/12/2023			0.0257			0.074	0.0306	
9/13/2023		0.0358			0.0745			0.0706

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/14/2023	0.0583			0.0456				
3/19/2024						0.0661		0.0776
3/20/2024		0.0501					0.026	
3/21/2024	0.0473		0.0287	0.0352	0.0493			
9/10/2024		0.063				0.0633		0.0724
9/11/2024	0.0398		0.023		0.0454		0.0279	
9/12/2024				0.0727				
Mean	0.06639	0.06315	0.04324	0.0906	0.1405	0.1027	0.08021	0.09472
Std. Dev.	0.01726	0.06426	0.09482	0.05639	0.09107	0.02647	0.05305	0.04633
Upper Lim.	0.08305	0.07053	0.03611	0.1217	0.1724	0.1177	0.1103	0.121
Lower Lim.	0.04973	0.0342	0.01224	0.05949	0.08945	0.08769	0.05008	0.06841

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0003 (J)	<0.0005	
8/31/2016		<0.0005	<0.0005			
10/25/2016						0.0004 (J)
11/30/2016		<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)
2/15/2017				0.0004 (J)	<0.0005	<0.0005
2/16/2017		<0.0005	<0.0005			
5/31/2017				0.0005 (J)	0.0001 (J)	0.0002 (J)
6/1/2017	0.0001 (J)					
6/2/2017		<0.0005	<0.0005			
8/2/2017	0.0003 (J)					
8/15/2017				0.0005 (J)		0.0002 (J)
8/16/2017					0.0002 (J)	
8/17/2017	0.0002 (J)	<0.0005	<0.0005			
4/4/2018	<0.0005					
5/8/2018	0.00025 (J)					
6/19/2018				0.00065 (J)	<0.0005	0.00032 (J)
6/20/2018	0.00021 (J)	<0.0005				
6/21/2018			<0.0005			
9/25/2018				0.00066 (J)	5E-05 (J)	
9/26/2018						0.00024 (J)
9/27/2018	0.00031 (J)	<0.0005	7.4E-05 (J)			
11/6/2018	0.00077 (J)		0.00012 (J)		9.7E-05 (J)	0.00026 (J)
11/7/2018		5.4E-05 (J)		0.00058 (J)		
8/26/2019					0.0001 (J)	
8/27/2019	0.00032 (J)			0.0009 (J)		0.00018 (J)
8/28/2019		<0.0005	<0.0005			
10/15/2019	0.00035 (J)			0.00079 (J)	<0.0005	
10/16/2019		<0.0005				0.00014 (J)
10/17/2019			7.8E-05 (J)			
3/27/2020				<0.005	<0.0005	<0.0005
3/28/2020	<0.0005	<0.0005	<0.0005			
10/12/2020				0.001 (J)		
10/13/2020	<0.0005				<0.0005	<0.0005
10/14/2020			<0.0005			
10/15/2020		<0.0005				
1/4/2021		<0.0005				
3/2/2021				<0.005	<0.0005	
3/3/2021						<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				0.0011	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005			<0.0005
3/1/2022		<0.0005				
3/2/2022			<0.0005			
3/3/2022	0.00025			0.0012 (J)	<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	0.0011 (J)	<0.0005	0.00029 (J)
2/28/2023				0.00135 (J)		0.000279 (J)
3/1/2023	<0.0005					
3/2/2023		<0.0005	<0.0005		<0.0005	
9/12/2023		<0.0005		0.00137	<0.0005	
9/13/2023	<0.0005		<0.0005			0.000249 (J)
3/19/2024				0.00145		<0.0005
3/20/2024	0.000208 (J)				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
3/21/2024		<0.0005	<0.0005			
9/10/2024	0.000321 (J)			0.00137		<0.0005
9/11/2024		<0.0005	<0.0005		<0.0005	
Mean	0.0003795	0.0004788	0.0004386	0.001031	0.0004024	0.0003529
Std. Dev.	0.0001605	9.733E-05	0.0001502	0.0006206	0.0001753	0.0001343
Upper Lim.	0.0003689	0.0005	0.0005	0.001299	0.0005	0.0005
Lower Lim.	0.0002002	5.4E-05	0.00012	0.0006575	0.0002	0.00024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-07
8/31/2016		<0.001
11/30/2016		<0.001
2/16/2017		<0.001
6/1/2017	<0.001	
6/2/2017		<0.001
8/2/2017	<0.001	
8/17/2017	<0.001	<0.001
4/4/2018	<0.001	
5/8/2018	<0.001	
6/20/2018	<0.001	
6/21/2018		<0.001
9/27/2018	<0.001	<0.001
11/6/2018	<0.001	<0.001
8/27/2019	<0.001	
8/28/2019		<0.001
10/15/2019	<0.001	
10/17/2019		<0.001
3/28/2020	<0.001	<0.001
9/14/2021	<0.001	<0.001
3/2/2022		<0.001
3/3/2022	0.00043	
9/21/2022	<0.001	0.0002 (J)
3/1/2023	<0.001	
3/2/2023		<0.001
9/13/2023	<0.001	<0.001
3/20/2024	<0.001	
3/21/2024		<0.001
9/10/2024	<0.001	
9/11/2024		<0.001
Mean	0.0009683	0.0009556
Std. Dev.	0.0001344	0.0001886
Upper Lim.	0.001	0.001
Lower Lim.	0.00043	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					0.0054 (J)	0.0026 (J)	
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)			
10/25/2016							0.016
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)			
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109
6/1/2017	0.0008 (J)						
6/2/2017		<0.01	<0.01	0.0023 (J)			
8/2/2017	0.0012 (J)						
8/15/2017					0.005 (J)		0.0117
8/16/2017						0.0019 (J)	
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)			
4/4/2018	<0.01						
5/8/2018	<0.01						
6/19/2018					0.0047 (J)	<0.01	0.013 (J)
6/20/2018	<0.01	<0.01	<0.01				
6/21/2018				<0.01			
9/25/2018					<0.01	<0.01	
9/26/2018							0.0092 (J)
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)			
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.01
11/7/2018		<0.01	<0.01		<0.01		
3/6/2019			<0.01				
8/26/2019						0.00071 (J)	
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)			
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)	
10/16/2019		0.00057 (J)					0.0063 (J)
10/17/2019			0.0015 (J)	0.0019 (J)			
3/27/2020					<0.01	<0.01	<0.01
3/28/2020	<0.01	<0.01	<0.01	<0.01			
9/13/2021					<0.01	<0.01	
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.01
3/1/2022		<0.01	<0.01				
3/2/2022				<0.01			
3/3/2022	0.00085 (J)				<0.01	<0.01	<0.01
9/20/2022			<0.01				
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)
2/28/2023					0.00663 (J)		0.00623 (J)
3/1/2023	<0.01						
3/2/2023		<0.01	<0.01	<0.01		<0.01	
9/12/2023		<0.01			0.00703 (J)	<0.01	
9/13/2023	<0.01			<0.01			0.00608 (J)
9/14/2023			<0.01				
3/19/2024					0.00689 (J)		0.00466 (J)
3/20/2024	<0.01					<0.01	
3/21/2024		<0.01	<0.01	<0.01			
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)
9/11/2024		<0.01		<0.01		<0.01	
9/12/2024			<0.01				
Mean	0.006131	0.006502	0.007639	0.006161	0.007132	0.006265	0.009454

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
Std. Dev.	0.004458	0.004519	0.004061	0.003955	0.002036	0.004316	0.003531
Upper Lim.	0.01	0.01	0.01	0.01	0.00659	0.01	0.01082
Lower Lim.	0.0012	0.0012	0.0011	0.0022	0.005357	0.0016	0.006253

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					<0.0025	0.0006 (J)	
8/31/2016		<0.0025	<0.0025	<0.0025			
10/25/2016							<0.0025
11/30/2016		<0.0025	0.0009 (J)	0.0011 (J)	<0.0025	<0.0025	0.0007 (J)
2/15/2017					<0.0025	<0.0025	<0.0025
2/16/2017		<0.0025	<0.0025	<0.0025			
5/31/2017					0.0005 (J)	<0.0025	<0.0025
6/1/2017	<0.0025						
6/2/2017		<0.0025	<0.0025	<0.0025			
8/2/2017	<0.0025						
8/15/2017					0.0005 (J)		0.0004 (J)
8/16/2017						<0.0025	
8/17/2017	<0.0025	<0.0025	0.0003 (J)	<0.0025			
4/4/2018	<0.0025						
5/8/2018	<0.0025						
6/19/2018					0.00053 (J)	<0.0025	<0.0025
6/20/2018	<0.0025	<0.0025	<0.0025				
6/21/2018				<0.0025			
9/25/2018					<0.0025	<0.0025	
9/26/2018							<0.0025
9/27/2018	<0.0025	<0.0025	<0.0025	<0.0025			
11/6/2018	0.0048 (J)			<0.0025		<0.0025	<0.0025
11/7/2018		<0.0025	<0.0025		<0.0025		
3/6/2019			<0.0025				
8/26/2019						<0.0025	
8/27/2019	0.0078				0.0007 (J)		<0.0025
8/28/2019		<0.0025	<0.0025	<0.0025			
10/15/2019	0.0085				0.00054 (J)	<0.0025	
10/16/2019		<0.0025					<0.0025
10/17/2019			<0.0025	<0.0025			
11/20/2019	0.009						
3/27/2020					<0.0025	<0.0025	<0.0025
3/28/2020	0.0041 (J)	<0.0025	<0.0025	<0.0025			
10/12/2020					<0.0025		
10/13/2020	0.0063					<0.0025	<0.0025
10/14/2020			<0.0025	<0.0025			
10/15/2020		0.0019 (J)					
1/4/2021		<0.0025					
3/2/2021					<0.0025	<0.0025	
3/3/2021							<0.0025
3/4/2021	0.006	<0.0025	<0.0025	<0.0025			
9/13/2021					<0.0025	<0.0025	
9/14/2021	0.0054	<0.0025	<0.0025	<0.0025			<0.0025
3/1/2022		<0.0025	<0.0025				
3/2/2022				<0.0025			
3/3/2022	0.0049				<0.0025	<0.0025	<0.0025
9/20/2022			<0.0025				
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.0025	0.00025 (J)
2/28/2023					0.00052 (J)		<0.0025
3/1/2023	0.00256 (J)						
3/2/2023		<0.0025	<0.0025	<0.0025		<0.0025	
9/12/2023		<0.0025			0.000429 (J)	<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/13/2023	0.00341			<0.0025			<0.0025
9/14/2023			<0.0025				
3/19/2024					0.000452 (J)		<0.0025
3/20/2024	0.00291					<0.0025	
3/21/2024		<0.0025	<0.0025	<0.0025			
9/10/2024	0.00238				0.000453 (J)		<0.0025
9/11/2024		<0.0025		<0.0025		<0.0025	
9/12/2024			<0.0025				
Mean	0.004193	0.002365	0.002319	0.00232	0.001502	0.002405	0.002192
Std. Dev.	0.002189	0.0004997	0.0005793	0.0005672	0.001025	0.0004249	0.0007547
Upper Lim.	0.006	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0019	0.0009	0.0011	0.0005	0.0006	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						1.4	1.31	
8/31/2016			2.39	2.47	5.4			
10/25/2016								2.22
11/30/2016			1.66	1.6	3.13	4.37	0.438	2.01
2/15/2017						2.21	0.3	1.56
2/16/2017			2.71	1.83	3.09			
5/31/2017						2.62	1.77	1.92
6/1/2017		1.9						
6/2/2017			1.99	2.45	7.56			
8/2/2017		5.01						
8/15/2017						2.69		2.47
8/16/2017							2.26	
8/17/2017		5.35	1.87	3.33	6.38			
4/4/2018		5.05						
5/8/2018		3.25						
6/19/2018						2.96	5.39	2.82
6/20/2018		3.53	1.95	2.84				
6/21/2018					5.24			
9/25/2018						2.23	6.22	
9/26/2018								3.15 (D)
9/27/2018		7.07	0.629 (U)	1.94	6.11			
11/6/2018		11			6.1		5.38	2.95
11/7/2018			1.41 (U)	8.58		2.14		
8/26/2019							7.68	
8/27/2019		4.4				2.91		5.82
8/28/2019			1.67	6.86	8.73			
10/15/2019		4.92				3.28	8.7	
10/16/2019			1.92					7.5
10/17/2019				7.85	7.97			
11/20/2019					9.8			
11/21/2019							7.34	8.89
3/27/2020						2.33	9.63	9.54
3/28/2020		4.16	1.44 (U)	11	11.7			
10/12/2020						2.66		
10/13/2020		3.71					7.43	7.75
10/14/2020				8.97	13.1			
10/15/2020	6.65		2.56					
1/4/2021			5.84					
4/6/2021	7.33	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8
9/13/2021						2.54	8.38	
9/14/2021	6.97	2.69	7.15	8.11	10.3			8.82
3/1/2022	9.03		8.16 (U)	5.83				
3/2/2022					5.66			
3/3/2022		2.51				3.56 (U)	8	9.1
9/20/2022	8.2			1.51				
9/21/2022		1.67	1.42		8.23	1.54	4.52	5.26
2/28/2023						2.29		5.48
3/1/2023		5.05						
3/2/2023	9.42		2.22	1.79	4.5		8.08	
9/12/2023			4.42			3.43	5.46	
9/13/2023		2.05			10.3			4.44
9/14/2023	11.7			3.61				

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/19/2024						2.79		5.64
3/20/2024		2.61					2.14	
3/21/2024	4.89		2.48	2.73	6.37			
9/10/2024		4.33				4.8		4.29
9/11/2024	7.95		2.55		5.35		3.4	
9/12/2024				5.25				
Mean	8.016	4.155	2.756	4.822	7.366	2.748	5.278	5.211
Std. Dev.	1.93	2.126	1.976	3.037	2.72	0.8361	2.945	2.71
Upper Lim.	9.879	5.087	3.183	6.546	8.866	3.222	6.903	6.706
Lower Lim.	6.152	2.936	1.644	3.098	5.865	2.273	3.654	3.716

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						1.5	0.5	
8/31/2016			0.93	0.41	0.92			
10/25/2016								1.1
11/30/2016			0.93	0.61	0.99	1.4	0.49	1.3
2/15/2017						1.3	0.58	1.3
2/16/2017			0.6	0.3 (J)	0.54			
5/31/2017						1.2	0.56	1.3
6/1/2017		<0.1						
6/2/2017			0.34	0.19 (J)	0.42			
8/2/2017		0.27 (J)						
8/15/2017						1.2		1.2
8/16/2017							0.45	
8/17/2017		0.18 (J)	0.52	0.26 (J)	0.27 (J)			
4/4/2018		<0.1						
5/8/2018		0.56						
6/19/2018						0.91	<0.1	0.6
6/20/2018		0.033 (J)	0.5	0.22 (J)				
6/21/2018					0.28 (J)			
9/25/2018						1.1	<0.1	
9/26/2018								0.44 (D)
9/27/2018		0.12 (J)	0.32	0.068 (J)	0.32			
11/6/2018		<0.1			0.086 (J)		0.084 (J)	0.4
11/7/2018			0.35	10.3 (O)		<0.1		
3/6/2019				<0.1				
3/24/2019			0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31
3/25/2019		0.055 (J)						
8/26/2019							<0.1	
8/27/2019		<0.1				1.1		<0.1
8/28/2019			0.36	<0.1	<0.1			
10/15/2019		0.095 (J)				1	<0.1	
10/16/2019			0.41					0.083 (J)
10/17/2019				<0.1	<0.1			
11/20/2019			0.34		<0.1			
11/21/2019							<0.1	<0.1
3/27/2020						1.1	<0.1	<0.1
3/28/2020		<0.1	0.34	<0.1	<0.1			
10/12/2020						1.2		
10/13/2020		<0.1					<0.1	<0.1
10/14/2020				<0.1	<0.1			
10/15/2020	0.11		0.22					
1/4/2021			<0.1					
3/2/2021						1	<0.1	
3/3/2021								0.58 (J)
3/4/2021	<0.1	<0.1	0.45	<0.1	<0.1			
7/1/2021							<0.1	
9/13/2021						1.4	<0.1	
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1
3/1/2022	<0.1		<0.1	<0.1				
3/2/2022					<0.1			
3/3/2022		<0.1				0.95	<0.1	<0.1
9/20/2022	<0.1			1.1 (J)				
9/21/2022		<0.1	0.48		0.18	1.3	0.12	0.78

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
2/28/2023						1.21		0.815
3/1/2023		<0.1						
3/2/2023	<0.1		0.388	0.419 (J)	0.44 (J)		0.188 (J)	
9/12/2023			0.374			1.32	<0.1	
9/13/2023		0.0941 (J)			0.982 (J)			1.46
9/14/2023	<0.1			0.246 (J)				
3/19/2024						1.34		0.959 (J)
3/20/2024		0.0744 (J)					0.294 (J)	
3/21/2024	<0.1		0.277	0.469 (J)	0.814 (J)			
9/10/2024		0.0749 (J)				1.67		0.986 (J)
9/11/2024	<0.1		0.654		0.692		0.164 (J)	
9/12/2024				0.392 (J)				
Mean	0.1011	0.1265	0.4023	0.2702	0.3579	1.154	0.2074	0.646
Std. Dev.	0.003333	0.1096	0.2279	0.2439	0.3214	0.3181	0.1736	0.4902
Upper Lim.	0.11	0.12	0.5215	0.3087	0.54	1.323	0.294	0.8109
Lower Lim.	0.1	0.0941	0.2831	0.1066	0.1	1.052	0.1	0.324

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0001 (J)	<0.005	
8/31/2016	<0.005	<0.005	<0.005			
10/25/2016						<0.005
11/30/2016	0.0002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2017				<0.005	<0.005	<0.005
2/16/2017	<0.005	<0.005	0.0002 (J)			
5/31/2017				9E-05 (J)	<0.005	<0.005
6/2/2017	<0.005	<0.005	<0.005			
8/15/2017				<0.005		0.0002 (J)
8/16/2017					8E-05 (J)	
8/17/2017	<0.005	<0.005	8E-05 (J)			
6/19/2018				<0.005	<0.005	<0.005
6/20/2018	<0.005	<0.005				
6/21/2018			<0.005			
9/25/2018				<0.005	<0.005	
9/26/2018						<0.005
9/27/2018	<0.005	<0.005	<0.005			
11/6/2018			<0.005		<0.005	<0.005
11/7/2018	<0.005	<0.005		<0.005		
3/6/2019		<0.005				
8/26/2019					<0.005	
8/27/2019				0.00022 (J)		0.00014 (J)
8/28/2019	<0.005	<0.005	0.0001 (J)			
10/15/2019				5.6E-05 (J)	<0.005	
10/16/2019	<0.005					0.00034 (J)
10/17/2019		0.00012 (J)	<0.005			
3/27/2020				<0.005	<0.005	<0.005
3/28/2020	<0.005	<0.005	<0.005			
10/12/2020				<0.005		
10/13/2020					<0.005	<0.005
10/14/2020		<0.005	<0.005			
10/15/2020	<0.005					
1/4/2021	<0.005					
3/2/2021				<0.005	<0.005	
3/3/2021						<0.005
3/4/2021	<0.005	<0.005	<0.005			
9/13/2021				<0.005	<0.005	
9/14/2021	<0.005	<0.005	<0.005			<0.005
3/1/2022	<0.005	<0.005				
3/2/2022			<0.005			
3/3/2022				<0.005	<0.005	<0.005
9/20/2022		<0.005				
9/21/2022	<0.005		<0.005	0.00083 (J)	<0.005	<0.005
2/28/2023				<0.005		<0.005
3/2/2023	<0.005	<0.005	<0.005		<0.005	
9/12/2023	<0.005			<0.005	<0.005	
9/13/2023			<0.005			<0.005
9/14/2023		<0.005				
3/19/2024				<0.005		<0.005
3/20/2024					<0.005	
3/21/2024	<0.005	<0.005	<0.005			
9/10/2024				<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/11/2024	<0.005		<0.005		<0.005	
9/12/2024		<0.005				
Mean	0.004771	0.004768	0.004269	0.003815	0.004754	0.004284
Std. Dev.	0.001047	0.001065	0.001785	0.002111	0.0011	0.001749
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0002	0.00012	0.0002	0.00083	8E-05	0.00034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.0102 (J)	0.0112 (J)	
8/31/2016			0.0219 (J)	0.0389 (J)	0.0122 (J)			
10/25/2016								0.007 (J)
11/30/2016			0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.025	0.0086 (J)
2/15/2017						0.0115 (J)	0.0105 (J)	0.0149 (J)
2/16/2017			0.0376 (J)	0.05 (J)	0.0142 (J)			
5/31/2017						0.011 (J)	0.0106 (J)	0.019 (J)
6/1/2017		<0.025						
6/2/2017			0.0346 (J)	0.0477 (J)	0.0229 (J)			
8/2/2017		<0.025						
8/15/2017						0.0123 (J)		0.016 (J)
8/16/2017							0.0145 (J)	
8/17/2017		<0.025	0.0367 (J)	0.0645	0.0241 (J)			
4/4/2018		0.0013 (J)						
5/8/2018		0.0012 (J)						
6/19/2018						0.012 (J)	0.044 (J)	0.021 (J)
6/20/2018		0.0015 (J)	0.034 (J)	0.066 (J)				
6/21/2018					0.03 (J)			
9/25/2018						0.011 (J)	0.041 (J)	
9/26/2018								0.02 (J)
9/27/2018		0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)			
11/6/2018		0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)
11/7/2018			0.022 (J)	0.11		0.013 (J)		
3/6/2019				0.12				
8/26/2019							0.059	
8/27/2019		0.002 (J)				0.012 (J)		0.023 (J)
8/28/2019			0.023 (J)	0.13	0.12			
10/15/2019		0.0019 (J)				0.012 (J)	0.056 (J)	
10/16/2019			0.021 (J)					0.024 (J)
10/17/2019				0.12	0.096			
11/20/2019					0.12			
11/21/2019							0.052	
3/27/2020						<0.025	0.052	0.033 (J)
3/28/2020	0.078	<0.025	0.014 (J)	0.064	0.027 (J)			
6/16/2020	0.096 (J)			0.12 (J)	0.049 (J)			
10/12/2020						0.011 (J)		
10/13/2020		<0.025					0.046 (J)	0.028 (J)
10/14/2020				0.11	0.039 (J)			
10/15/2020	0.093		0.57					
1/4/2021			0.043 (J)					
3/2/2021						<0.025	0.046 (J)	
3/3/2021								<0.025
3/4/2021	0.094 (J)	<0.025	0.017 (J)	0.096 (J)	0.035 (J)			
7/1/2021							<0.025	
9/13/2021						0.01 (J)	0.047	
9/14/2021	0.092	<0.025	0.042 (J)	0.084	0.035 (J)			0.035 (J)
3/1/2022	0.088 (J)		0.028 (J)	0.074				
3/2/2022					0.022 (J)			
3/3/2022		0.0017 (J)				<0.025	0.037 (J)	0.02 (J)
9/20/2022	<0.025			0.043				
9/21/2022		<0.025	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)
2/28/2023						0.0104 (J)		0.0257 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/1/2023		<0.025						
3/2/2023	0.0919		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)	
9/12/2023			0.0301			0.0115	0.0222	
9/13/2023		<0.025			0.027			0.037
9/14/2023	0.087			0.0551				
3/19/2024						0.0104		0.0223
3/20/2024		<0.025					0.0208	
3/21/2024	0.08		0.0329	0.0458	0.0135			
9/10/2024		<0.025				0.00967 (J)		0.0211
9/11/2024	0.0667		0.029		0.0147		0.0204	
9/12/2024				0.055				
Mean	0.07992	0.01578	0.05404	0.047	0.03751	0.01305	0.03236	0.02141
Std. Dev.	0.02399	0.0116	0.1185	0.008153	0.0321	0.005279	0.01703	0.00791
Upper Lim.	0.09409	0.025	0.0367	0.06066	0.04205	0.0123	0.0415	0.0259
Lower Lim.	0.07277	0.0019	0.0219	0.03334	0.02032	0.0104	0.02322	0.01691

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
8/30/2016					<0.0002	
8/31/2016		<0.0002	<0.0002	<0.0002		
10/25/2016						<0.0002
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/15/2017					<0.0002	<0.0002
2/16/2017		<0.0002	<0.0002	<0.0002		
5/31/2017					<0.0002	<0.0002
6/1/2017	<0.0002					
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002		
8/2/2017	<0.0002					
8/15/2017						<0.0002
8/16/2017					<0.0002	
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002					
5/8/2018	<0.0002					
6/19/2018					<0.0002	<0.0002
6/20/2018	<0.0002	<0.0002	<0.0002			
6/21/2018				<0.0002		
9/25/2018					<0.0002	
9/26/2018						<0.0002
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
11/6/2018	0.00071			0.00067	0.00066	0.00064
11/7/2018		<0.0002	<0.0002			
3/6/2019			<0.0002			
8/26/2019					<0.0002	
8/27/2019	<0.0002					<0.0002
8/28/2019		<0.0002	<0.0002	<0.0002		
10/15/2019	<0.0002				<0.0002	
10/16/2019		<0.0002				<0.0002
10/17/2019			<0.0002	<0.0002		
3/27/2020					<0.0002	<0.0002
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/13/2021					<0.0002	
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002		<0.0002
3/1/2022		<0.0002	<0.0002			
3/2/2022				<0.0002		
3/3/2022	<0.0002				<0.0002	<0.0002
9/20/2022			<0.0002			
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2023						<0.0002
3/1/2023	<0.0002					
3/2/2023		<0.0002	<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002	
9/13/2023	<0.0002			<0.0002		<0.0002
9/14/2023			<0.0002			
3/19/2024						<0.0002
3/20/2024	<0.0002				<0.0002	
3/21/2024		<0.0002	<0.0002	<0.0002		
9/10/2024	<0.0002					<0.0002
9/11/2024		<0.0002		<0.0002	<0.0002	
9/12/2024			<0.0002			
Mean	0.0002283	0.0001912	0.0001979	0.0002261	0.0002256	0.0002244

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
Std. Dev.	0.0001202	3.724E-05	9.177E-06	0.0001108	0.0001084	0.0001037
Upper Lim.	0.00071	0.0002	0.0002	0.00067	0.00066	0.00064
Lower Lim.	0.0002	4.2E-05	0.00016	0.0002	0.0002	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17
8/30/2016						<0.01	
8/31/2016			<0.01	<0.01	<0.01		
10/25/2016							<0.01
11/30/2016			<0.01	<0.01	<0.01	<0.01	<0.01
2/15/2017						<0.01	<0.01
2/16/2017			<0.01	<0.01	<0.01		
5/31/2017						<0.01	<0.01
6/1/2017		<0.01					
6/2/2017			<0.01	<0.01	<0.01		
8/2/2017		<0.01					
8/15/2017						<0.01	<0.01
8/17/2017		<0.01	0.0012 (J)	0.0025 (J)	<0.01		
4/4/2018		<0.01					
5/8/2018		<0.01					
6/19/2018						<0.01	<0.01
6/20/2018		<0.01	<0.01	<0.01			
6/21/2018					<0.01		
9/25/2018						<0.01	
9/26/2018							<0.01
9/27/2018		<0.01	<0.01	<0.01	<0.01		
11/6/2018		<0.01			<0.01		<0.01
11/7/2018			<0.01	0.0024 (J)		<0.01	
3/6/2019				<0.01			
8/27/2019		<0.01				<0.01	<0.01
8/28/2019			<0.01	0.0017 (J)	<0.01		
10/15/2019		<0.01				<0.01	
10/16/2019			<0.01				<0.01
10/17/2019				0.0017 (J)	<0.01		
3/27/2020						<0.01	<0.01
3/28/2020		<0.01	<0.01	<0.01	<0.01		
9/13/2021						<0.01	
9/14/2021	<0.01	<0.01	0.0099 (J)	<0.01	<0.01		<0.01
3/1/2022	<0.01		<0.01	<0.01			
3/2/2022					<0.01		
3/3/2022		0.00015 (J)				<0.01	<0.01
9/20/2022	<0.01			0.0013 (J)			
9/21/2022		<0.01	0.00095 (J)		0.00095 (J)	<0.01	<0.01
2/28/2023						0.000362 (J)	0.000313 (J)
3/1/2023		<0.01					
3/2/2023	0.000245 (J)		0.000852 (J)	0.00131 (J)	0.000963 (J)		
9/12/2023			0.000809 (J)			0.000423 (J)	
9/13/2023		<0.01			0.000847 (J)		0.000217 (J)
9/14/2023	<0.01			0.000839 (J)			
3/19/2024						0.00055 (J)	0.00102 (J)
3/20/2024		<0.01					
3/21/2024	<0.01		0.000936 (J)	0.000983 (J)	0.00146 (J)		
9/10/2024		<0.01				0.000276 (J)	<0.01
9/11/2024	0.000217 (J)		0.00113		0.000949 (J)		
9/12/2024				0.000895 (J)			
Mean	0.007209	0.009453	0.006988	0.00598	0.007509	0.007867	0.008419
Std. Dev.	0.004767	0.002322	0.004372	0.004372	0.004134	0.004106	0.00364
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17
Lower Lim.	0.000217	0.00015	0.00095	0.0013	0.000963	0.00055	0.00102

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.0011 (J)	<0.005	
8/31/2016			0.002 (J)	0.0015 (J)	0.0021 (J)			
10/25/2016								0.003 (J)
11/30/2016			0.0023 (J)	0.0054 (J)	<0.005	0.0023 (J)	<0.005	0.0087 (J)
2/15/2017						0.0021 (J)	0.0014 (J)	0.0067 (J)
2/16/2017			0.002 (J)	0.0022 (J)	0.0025 (J)			
5/31/2017						<0.005	<0.005	0.0018 (J)
6/1/2017		<0.005						
6/2/2017			<0.005	<0.005	<0.005			
8/2/2017		<0.005						
8/15/2017						0.0021 (J)		0.0025 (J)
8/16/2017							0.0018 (J)	
8/17/2017		<0.005	<0.005	0.002 (J)	0.0033 (J)			
4/4/2018		<0.005						
5/8/2018		<0.005						
6/19/2018						0.0017 (J)	<0.005	<0.005
6/20/2018		<0.005	<0.005	<0.005				
6/21/2018					<0.005			
9/25/2018						0.002 (J)	0.0019 (J)	
9/26/2018								0.0016 (J)
9/27/2018		<0.005	<0.005	<0.005	0.0023 (J)			
11/6/2018		0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.005
11/7/2018			<0.005	0.0075 (J)		<0.005		
3/6/2019				0.0024 (J)				
8/26/2019							0.0025 (J)	
8/27/2019		<0.005				0.0019 (J)		0.0018 (J)
8/28/2019			<0.005	0.0014 (J)	0.0019 (J)			
10/15/2019		<0.005				<0.005	0.003 (J)	
10/16/2019			<0.005					<0.005
10/17/2019				0.0066 (J)	0.0049 (J)			
3/27/2020						<0.005	<0.005	<0.005
3/28/2020		<0.005	<0.005	<0.005	<0.005			
10/12/2020						<0.005		
10/13/2020		<0.005					<0.005	<0.005
10/14/2020				<0.005	<0.005			
10/15/2020	<0.025		0.0028 (J)					
1/4/2021			<0.005					
3/2/2021						<0.005	<0.005	
3/3/2021								<0.005
3/4/2021	<0.025	0.00038 (J)	<0.005	<0.005	<0.005			
9/13/2021						<0.005	<0.005	
9/14/2021	<0.025	<0.005	<0.005	<0.005	<0.005			<0.005
3/1/2022	<0.025		<0.005	<0.005				
3/2/2022					<0.005			
3/3/2022		0.00012 (J)				<0.005	<0.005	<0.005
9/20/2022	<0.025			<0.005				
9/21/2022		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/28/2023						0.00157 (J)		0.00184 (J)
3/1/2023		<0.005						
3/2/2023	0.00205 (J)		<0.005	<0.005	0.00238 (J)		<0.005	
9/12/2023			<0.005			<0.005	<0.005	
9/13/2023		<0.005			<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/14/2023	<0.025			<0.005				
3/19/2024						<0.005		<0.005
3/20/2024		<0.005					<0.005	
3/21/2024	<0.025		<0.005	<0.005	<0.005			
9/10/2024		<0.005				<0.005		<0.005
9/11/2024	0.00176 (J)		<0.005		<0.005		<0.005	
9/12/2024				<0.005				
Mean	0.01987	0.0044	0.004481	0.004476	0.004209	0.003738	0.004315	0.004397
Std. Dev.	0.01018	0.001525	0.001106	0.001613	0.001232	0.001602	0.001341	0.0018
Upper Lim.	0.025	0.005	0.005	0.0054	0.005	0.005	0.005	0.0067
Lower Lim.	0.00176	0.0025	0.0028	0.0024	0.0025	0.002	0.003	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-06
8/31/2016	<0.002
11/30/2016	<0.002
2/16/2017	<0.002
6/2/2017	<0.002
8/17/2017	<0.002
6/20/2018	<0.002
9/27/2018	<0.002
11/7/2018	<0.002
3/6/2019	<0.002
8/28/2019	<0.002
10/17/2019	7.6E-05 (J)
3/28/2020	<0.002
9/14/2021	<0.002
3/1/2022	<0.002
9/20/2022	<0.002
3/2/2023	<0.002
9/14/2023	<0.002
3/21/2024	<0.002
9/12/2024	<0.002
Mean	0.001899
Std. Dev.	0.0004414
Upper Lim.	0.002
Lower Lim.	7.6E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

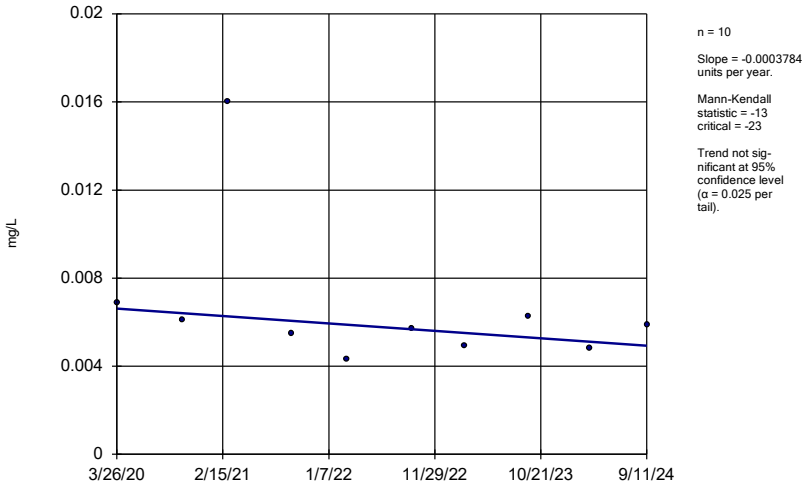
Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0003784	-13	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	5	23	No	10	80	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0005749	11	23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	4	23	No	10	70	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0002044	-34	-45	No	16	12.5	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001483	9	45	No	16	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0005441	-14	-45	No	16	0	n/a	0.05	NP
Lithium (mg/L)	DPZ-02	-0.003635	-27	-27	No	11	9.091	n/a	0.05	NP
Lithium (mg/L)	MCM-01 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	23	No	10	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	23	No	10	70	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	37	No	14	57.14	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.0003351	19	45	No	16	6.25	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0.0002343	18	45	No	16	0	n/a	0.05	NP

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Sen's Slope Estimator

MCM-01 (bg)



n = 10

Slope = -0.0003784 units per year.

Mann-Kendall statistic = -13 critical = -23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

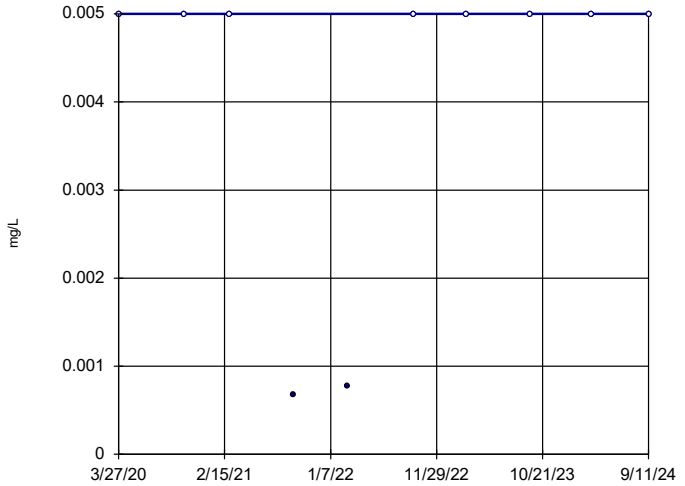
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 5 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

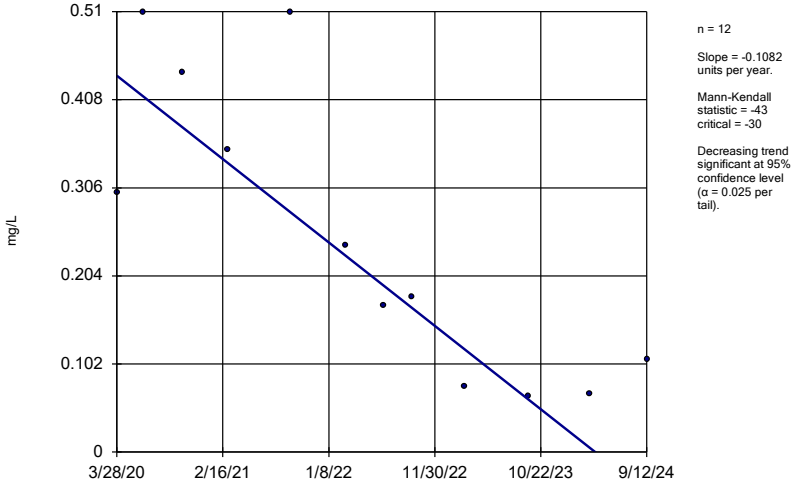
Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-06



n = 12

Slope = -0.1082 units per year.

Mann-Kendall statistic = -43 critical = -30

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

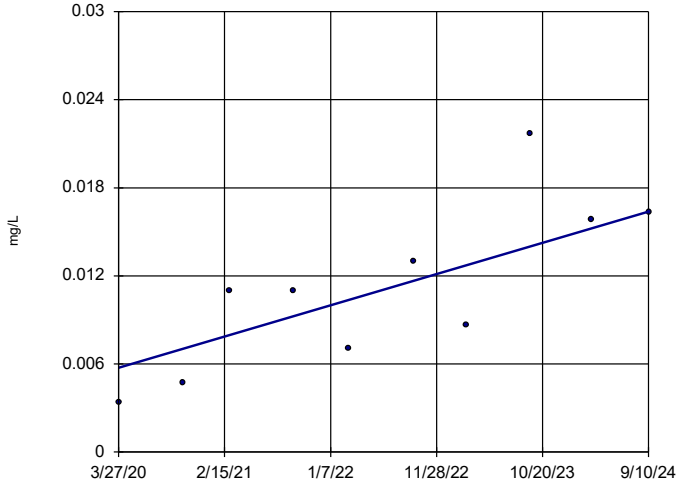
Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-11 (bg)



n = 10

Slope = 0.002384 units per year.

Mann-Kendall statistic = 30 critical = 23

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

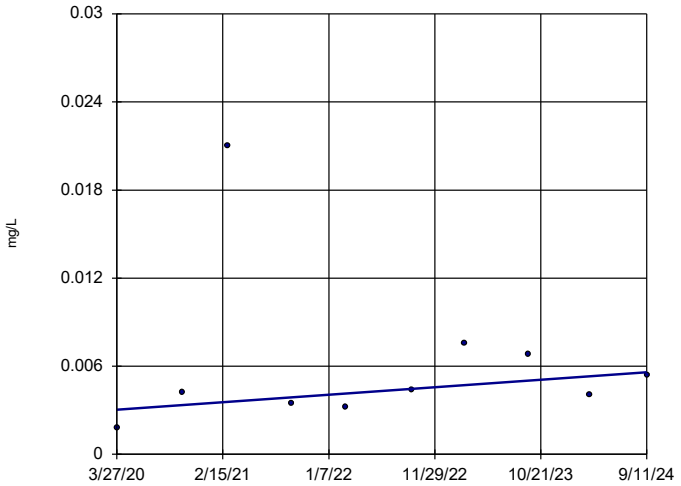
Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-15 (bg)



n = 10

Slope = 0.0005749 units per year.

Mann-Kendall statistic = 11 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

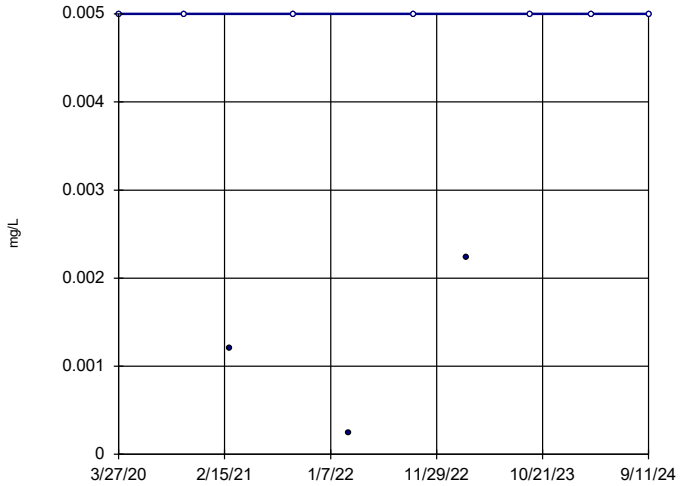
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

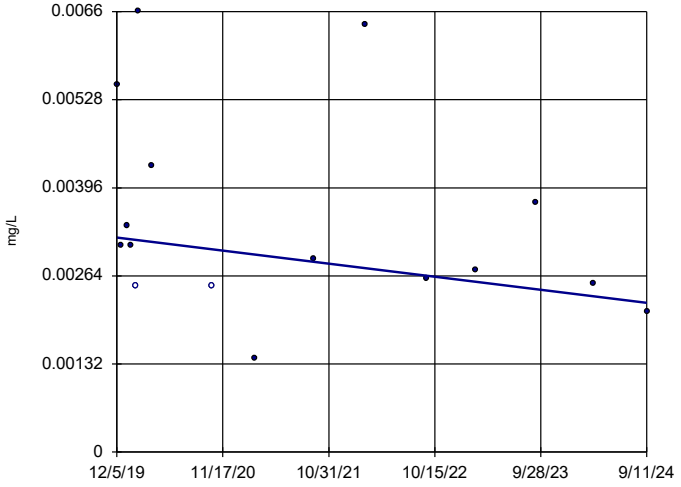
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 16

Slope = -0.0002044 units per year.

Mann-Kendall statistic = -34 critical = -45

Trend not significant at 95% confidence level (α = 0.025 per tail).

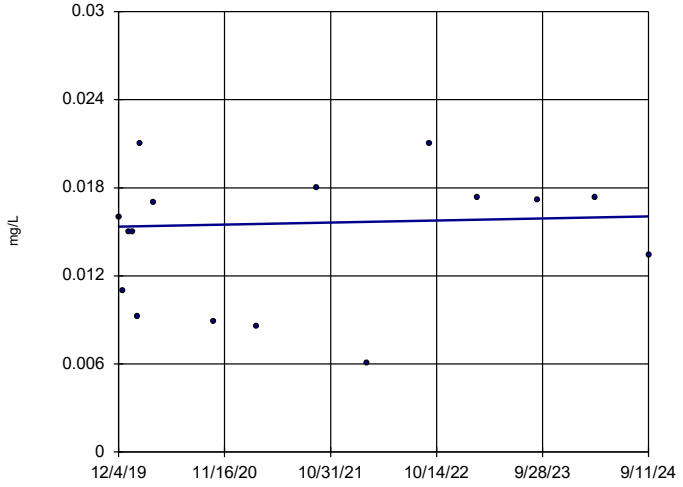
Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-19 (bg)



n = 16

Slope = 0.0001483 units per year.

Mann-Kendall statistic = 9 critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

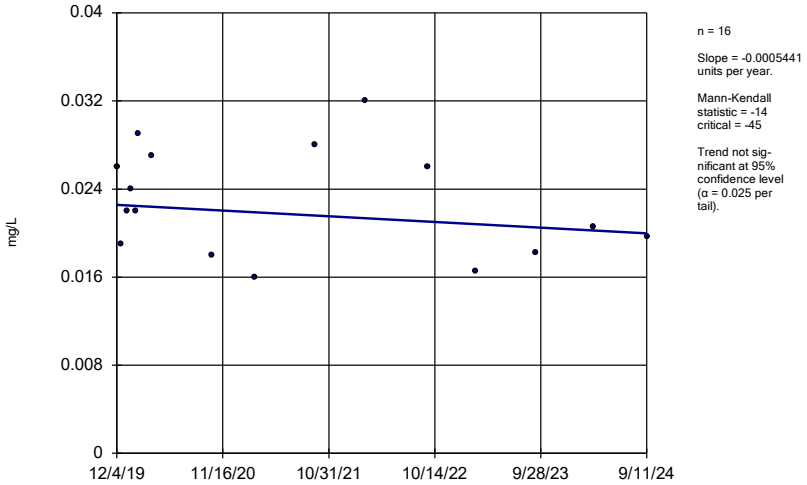
Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-20 (bg)



n = 16

Slope = -0.0005441 units per year.

Mann-Kendall statistic = -14
critical = -45

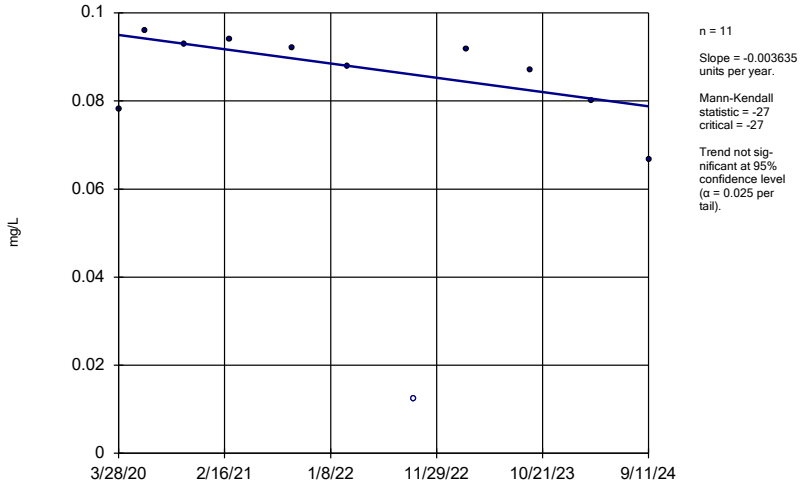
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

DPZ-02



n = 11

Slope = -0.003635 units per year.

Mann-Kendall statistic = -27
critical = -27

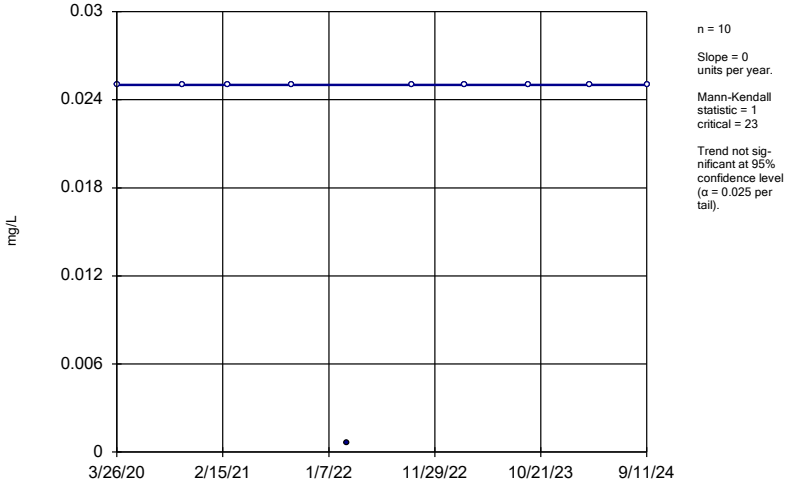
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 23

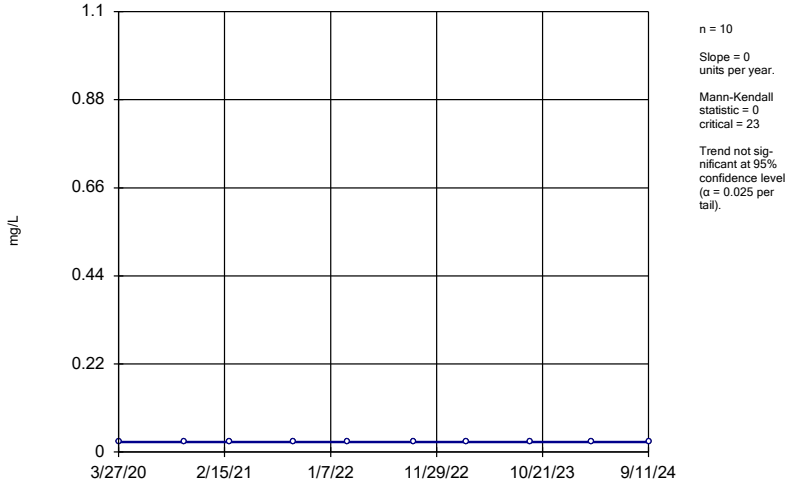
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 23

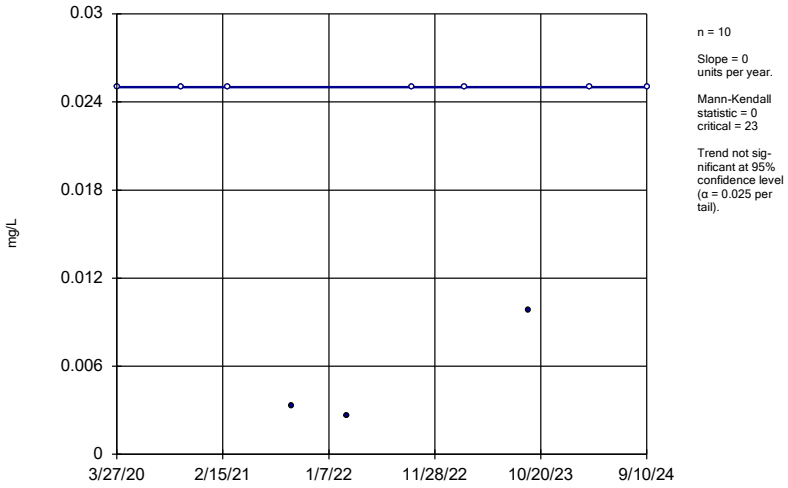
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

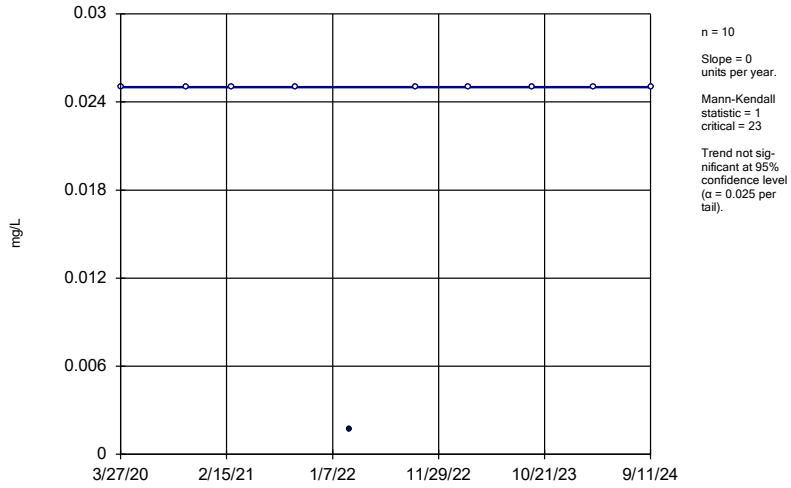
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 23

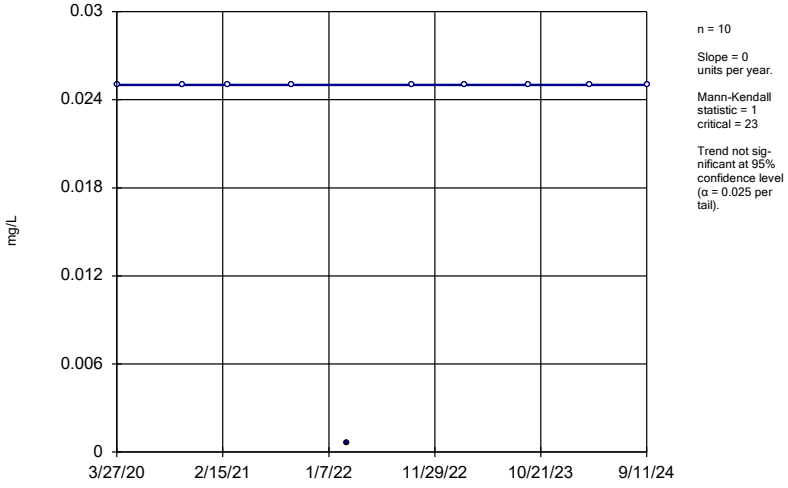
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 23

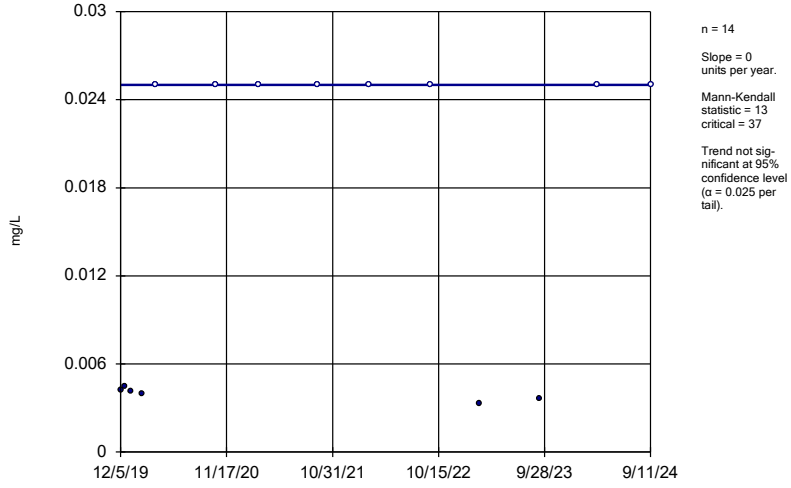
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 13 critical = 37

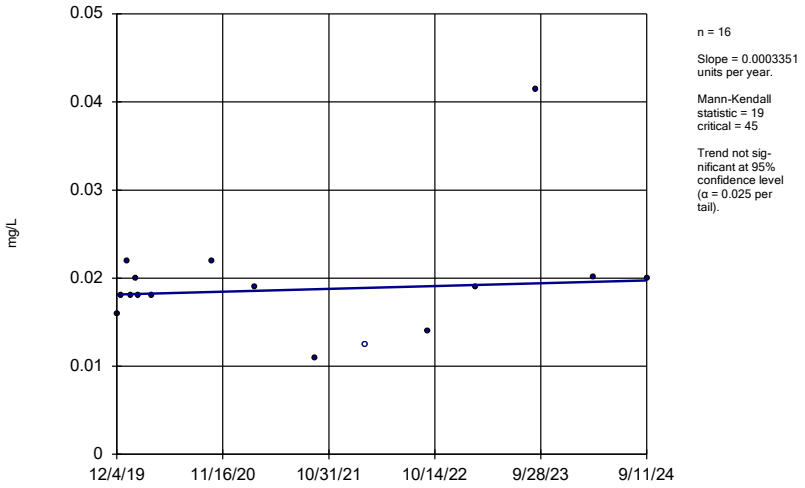
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 16

Slope = 0.0003351 units per year.

Mann-Kendall statistic = 19
critical = 45

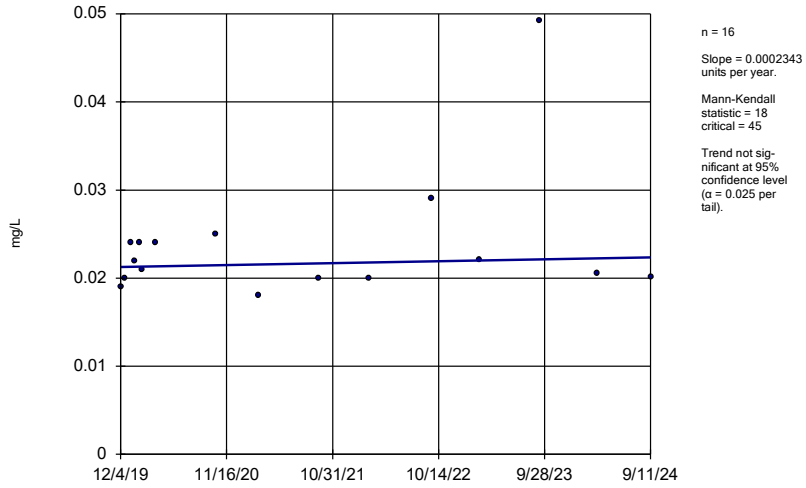
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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Sen's Slope Estimator

MCM-20 (bg)



n = 16

Slope = 0.0002343 units per year.

Mann-Kendall statistic = 18
critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

GROUNDWATER STATS CONSULTING

July 31, 2025

Resolute Environmental & Water Resources Consulting
Attn: Mr. Trent Godwin
1003 Weatherstone Parkway, Ste. 320
Woodstock, GA 30188

Re: Plant McManus Ash Pond (AP)
Statistical Analysis – March 2025 Sample Event

Dear Mr. Godwin,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the March 2025 sample event for Georgia Power Company's Plant McManus Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules (EPD) for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

The groundwater monitoring well network consists of the following:

- **Upgradient Wells:** MCM-01, MCM-02, MCM-11, MCM-15, MCM-16, MCM-18, MCM-19, and MCM-20
- **Downgradient Wells:** MCM-04, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17
- **Assessment Well:** DPZ-2

Sampling began in 2016 for the majority of wells. Upgradient wells MCM-18, MCM-19, and MCM-20, however, were installed late in 2019. Assessment well DPZ-2 is evaluated with confidence intervals for Appendix IV constituents which require a minimum of four samples. A minimum of 8 samples has been collected at each upgradient and downgradient well and data from these wells are included in this analysis.

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. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS is now used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The statistical analysis provided in this report was performed according to the background screening conducted by MacStat Consulting in April 2019. Interwell prediction limits, combined with a 1-of-2 resample plan, for Appendix III parameters were recommended as the primary statistical method.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 list of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a replacement of the most recent reporting limit is used for non-detect data. However, the reporting limits for some constituents during recent events were at or above the MCL or CCR-Rule Specified Levels. In order maintain conservative limits, the following historic reporting limits were substituted:

- Chromium: 0.01 mg/L
- Cobalt: 0.001 mg/L

- Fluoride: 0.1 mg/L
- Lead: 0.002 mg/L
- Lithium: 0.01 mg/L
- Molybdenum: 0.001 mg/L

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of spatial variation in groundwater quality. In other cases, concentrations exist higher in downgradient wells relative to observations reported upgradient of the facility, as seen in the majority of the Appendix III parameters. This may be reflective of spatial variation or a result of practices at the facility. A separate study and hydrogeological investigation would be required to fully understand the geochemical conditions and expected groundwater quality for the region. That study and assessment is beyond the scope of services provided by Groundwater Stats Consulting.

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.

Based on the 2019 screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the 2019 screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each detected Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling non-detects (USEPA, 2009):

- 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 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.

Summary of Background Update Conducted in 2025

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are often not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected.

Previously flagged values were confirmed using the Tukey's box plot method to evaluate pooled upgradient well data (Figure C) and visual screening with time series plots to assess both upgradient and downgradient wells. Any values identified by Tukey's, but not flagged in the database, appeared representative of remaining concentrations among pooled upgradient data. When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each upgradient well to identify statistically significant increasing or decreasing trends (Figure D). In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are

significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The following statistically significant trends were identified at upgradient wells:

Appendix III

Increasing:

- None

Decreasing:

- Boron: MCM-16 and MCM-18
- Calcium: MCM-18 and MCM-20
- Chloride: MCM-02, MCM-16, MCM-18, and MCM-20
- pH: MCM-15 and MCM-20
- Sulfate: MCM-02 and MCM-18
- TDS: MCM-01, MCM-02, MCM-16, MCM-18, and MCM-20

Appendix IV

Increasing:

- Beryllium: MCM-11 and MCM-16
- Chromium: MCM-15
- Combined Radium 226 + 228: MCM-16
- Lead: MCM-20
- Selenium: MCM-19

Decreasing:

- Arsenic: MCM-18
- Barium: MCM-02, MCM-19, and MCM-20
- Beryllium: MCM-18
- Combined Radium 226 +228: MCM-18 and MCM-20
- Selenium: MCM-18 and MCM-20

Although the results of the trend analyses showed statistically significant decreasing and increasing trends at individual upgradient wells for the Appendix III and IV parameters, the magnitudes of several of the trends noted were relatively low compared to average pooled upgradient concentrations. Additionally, many of the well/constituent pairs with statistically significant trends did not require truncation because truncating earlier measurements would have no bearing on resulting statistical limits that are constructed using pooled upgradient well data. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may require truncation.

Exceptions include the trends for combined radium 226 + 228 at upgradient well MCM-20 and selenium at upgradient wells MCM-18, MCM-19, and MCM-20, as these well/constituent pairs had portions of their baseline sampling periods truncated during a previous update. Trend tests using both the full and truncated records follow this report and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

Statistical Analysis of Appendix III Parameters – March 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No additional outliers were flagged at this time. 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).

Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2025 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The March 2025 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: MCM-12 and MCM-17
- pH: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

Trend Tests

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 F). Upgradient well data 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. Trends identified in upgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of trend test results follows this letter including a list of statistically significant trends. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Boron: MCM-16 and MCM-18 (both upgradient)
- pH: MCM-15, MCM-20 (both upgradient), MCM-14, and MCM-17

Statistical Analysis of Appendix IV Parameters – March 2025

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. Any downgradient and assessment well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional individual observations were flagged as outliers during this analysis. As a result of the previous background screening, the following non-detect values were flagged at that time due to elevated reporting limits: 0.025 mg/L for lead in upgradient well MCM-19; and 0.1 mg/L, 0.15 mg/L and 0.3 mg/L for lithium in upgradient well MCM-18. Additionally, elevated concentrations for fluoride in downgradient well MCM-06 and upgradient well MCM-20, and for cadmium in upgradient well MCM-19 were flagged as outliers. This step results in construction of statistical limits that are conservative from a regulatory perspective.

During previous analyses, elevated historic concentrations collected during the baseline sampling period for combined radium 226 + 228 in upgradient well MCM-20 and for selenium at upgradient wells MCM-18, MCM-19, and MCM-20 were truncated from the record in order to maintain more conservative (i.e., lower) limits and construct statistical

limits that are more representative of current groundwater quality conditions. A summary of all flagged outliers (Figure C) and a list of any truncated records follow this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2025 for Appendix IV constituents (Figure G). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

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 H).

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 and assessment well. These intervals were constructed as either parametric or nonparametric confidence intervals 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 appropriate 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 achievable confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Note the concentrations for arsenic and lithium in downgradient well MCM-06 have statistically significantly decreased since November 2019 and recent concentrations appear to have stabilized. Therefore, confidence intervals for arsenic and lithium at MCM-06 were constructed using only more recent and stable data (USEPA Unified Guidance, 2009, Chapter 7). Trend tests using both the full and truncated records follow this report (Figure I) and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

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 (Figure J), and exceedances were identified for the following well/constituent pairs:

- Arsenic: MCM-06
- Lithium: DPZ-02

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 K). 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.

Note that closure measures have been implemented; therefore, the trend test was used to evaluate all available data beyond November 21, 2019 to the present. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Arsenic: MCM-06
- Lithium: DPZ-02

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Plant McManus Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,





Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

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Summary Tables

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 5/21/2025 3:57 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Antimony (mg/L)
MCM-04, MCM-07, MCM-12, MCM-17, DPZ-02

Beryllium (mg/L)
MCM-06, DPZ-02

Cadmium (mg/L)
MCM-05, MCM-06, MCM-12, MCM-14, MCM-17, DPZ-02

Chromium (mg/L)
DPZ-02

Cobalt (mg/L)
DPZ-02

Lead (mg/L)
MCM-04, DPZ-02

Mercury (mg/L)
MCM-12, DPZ-02

Molybdenum (mg/L)
MCM-14

Thallium (mg/L)
MCM-04, MCM-05, MCM-07, MCM-12, MCM-14, MCM-17, DPZ-02

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Date Ranges

Date: 5/22/2025 12:01 PM

Plant McManus Client: Southern Company Data: McManus AP1

Arsenic (mg/L)
- MCM-06 overall:3/2/2023-3/19/2025

Combined Radium 226 + 228 (pCi/L)
- MCM-20 overall:10/13/2020-3/19/2025

Lithium (mg/L)
- MCM-06 overall:9/20/2022-3/19/2025

Selenium (mg/L)
- MCM-18 overall:3/26/2020-3/19/2025
- MCM-19 overall:3/26/2020-3/19/2025
- MCM-20 overall:3/26/2020-3/19/2025

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 2:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-5.412**	**-129**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-13.95**	**-119**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-02 (bg)**	**-3.473**	**-173**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-16 (bg)**	**-2.237**	**-122**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-18 (bg)**	**-248.8**	**-139**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-20 (bg)**	**-571.7**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MCM-02 (bg)**	**-1.97**	**-137**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MCM-18 (bg)**	**-41.32**	**-115**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-01 (bg)**	**-6.475**	**-95**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-02 (bg)**	**-10.08**	**-145**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-16 (bg)**	**-7.583**	**-88**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-18 (bg)**	**-484**	**-149**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-20 (bg)**	**-1139**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - Upgradient Wells - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 4:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0004099**	**-79**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-02 (bg)**	**-0.008119**	**-166**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-19 (bg)**	**-0.01109**	**-105**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-20 (bg)**	**-0.01068**	**-135**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-11 (bg)**	**0.00003907**	**100**	**66**	**Yes**	**21**	**52.38**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-16 (bg)**	**0.00001657**	**76**	**66**	**Yes**	**21**	**38.1**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-18 (bg)**	**-0.000504**	**-144**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chromium (mg/L)	**MCM-15 (bg)**	**0.0003131**	**69**	**58**	**Yes**	**19**	**42.11**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-16 (bg)**	**0.07738**	**67**	**66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-18 (bg)**	**-1.763**	**-115**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-20 (bg)**	**-4.017**	**-84**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lead (mg/L)	**MCM-20 (bg)**	**0.00002062**	**59**	**58**	**Yes**	**19**	**57.89**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**MCM-18 (bg)**	**-0.001853**	**-66**	**-58**	**Yes**	**19**	**26.32**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**MCM-20 (bg)**	**-0.008536**	**-62**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Upgradient Wells - Truncated Results - Significant Result

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**MCM-19 (bg)**	**0.009094**	**32**	**27**	**Yes**	**11**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Upgradient Wells - Truncated Results - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MCM-20 (bg)	-0.9605	-14	-23	No	10	0	n/a	n/a	0.05	NP
Selenium (mg/L)	MCM-18 (bg)	0.0002404	15	27	No	11	36.36	n/a	n/a	0.05	NP
Selenium (mg/L)	**MCM-19 (bg)**	**0.009094**	**32**	**27**	**Yes**	**11**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	MCM-20 (bg)	0.003985	27	27	No	11	0	n/a	n/a	0.05	NP

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/17/2025**	**1.38**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/18/2025**	**1.64**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**3/19/2025**	**6.91**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**3/19/2025**	**7.07**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**3/19/2025**	**6.61**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**3/17/2025**	**6.49**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**3/17/2025**	**6.44**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**3/18/2025**	**6.59**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	3/20/2025	0.0876	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	3/19/2025	0.607	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	3/19/2025	0.822	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	3/19/2025	0.911	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/17/2025**	**1.38**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	3/17/2025	0.341	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/18/2025**	**1.64**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	3/20/2025	6.11	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	3/19/2025	196	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	3/19/2025	198	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	3/19/2025	98.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	3/17/2025	4.62	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	3/17/2025	171	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	3/18/2025	72.2	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	3/20/2025	45.3	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	3/19/2025	3790	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	3/19/2025	4590	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	3/19/2025	2720	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	3/17/2025	311	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	3/17/2025	3240	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	3/18/2025	2900	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	3/20/2025	0.0536J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	3/19/2025	0.557	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	3/19/2025	0.407J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	3/19/2025	0.798J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	3/17/2025	1.36	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	3/17/2025	0.273J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	3/18/2025	1.45	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	3/20/2025	4.97	No	170	n/a	n/a	0	n/a	n/a	0.0001371	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**3/19/2025**	**6.91**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**3/19/2025**	**7.07**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**3/19/2025**	**6.61**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**3/17/2025**	**6.49**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**3/17/2025**	**6.44**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**3/18/2025**	**6.59**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	3/20/2025	41.8	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	3/19/2025	399	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	3/19/2025	549	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	3/19/2025	404	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	3/17/2025	1.83	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	3/17/2025	443	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	3/18/2025	363	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	3/20/2025	152	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	3/19/2025	7440	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	3/19/2025	8300	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	3/19/2025	5420	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	3/17/2025	1220	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	3/17/2025	6320	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	3/18/2025	5200	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/13/2025, 11:34 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.058**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05892**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/13/2025, 11:34 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.004435	68	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.006707	-67	-87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001315	46	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.0002624	-4	-87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.01098	-24	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.02284	-55	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.0138	48	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.02137	-45	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06257	-80	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.02188	91	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.04439	-90	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	0.01347	12	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-18 (bg)	0.05214	73	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02135	-27	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	-0.007295	-18	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.008858	23	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.02412	-59	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.004638	-15	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.058**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05892**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	147	99.32	n/a	0.0005313	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.032	n/a	n/a	n/a	n/a	165	18.79	n/a	0.0002111	NP Inter(normality)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	163	0	n/a	0.0002339	NP Inter(normality)
Beryllium (mg/L)	n/a	0.021	n/a	n/a	n/a	n/a	162	32.1	n/a	0.0002462	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	145	97.24	n/a	0.0005887	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	147	60.54	n/a	0.0005313	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.036	n/a	n/a	n/a	n/a	162	77.16	n/a	0.0002462	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	34.9	n/a	n/a	n/a	n/a	153	0	n/a	0.0003906	NP Inter(normality)
Fluoride (mg/L)	n/a	3.98	n/a	n/a	n/a	n/a	166	48.8	n/a	0.0002005	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	162	88.89	n/a	0.0002462	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0493	n/a	n/a	n/a	n/a	159	60.38	n/a	0.0002871	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0007	n/a	n/a	n/a	n/a	146	97.26	n/a	0.0005593	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	146	89.73	n/a	0.0005593	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0492	n/a	n/a	n/a	n/a	139	74.1	n/a	0.0008009	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	146	97.26	n/a	0.0005593	NP Inter(NDs)

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.002	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Arsenic & Lithium MCM-06 Trend Test - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/14/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MCM-06	-0.02083	-83	-164	No	39	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0	3	76	No	23	0	n/a	n/a	0.05	NP

Arsenic & Lithium MCM-06 Trend Test Truncated Records - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/14/2025, 3:06 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MCM-06	0.01963	6	10	No	5	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.009196	9	12	No	6	0	n/a	n/a	0.05	NP

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1258**	**0.04712**	**0.032**	**Yes**	**5**	**0.08644**	**0.02347**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09268**	**0.07174**	**0.049**	**Yes**	**12**	**0.07817**	**0.02517**	**8.333**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00142	0.006	No	19	0.002917	0.0003625	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	20	0.002789	0.0006329	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	19	0.002863	0.0005965	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005471	0.002721	0.032	No	21	0.004466	0.00311	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.0129	0.00543	0.032	No	37	0.01201	0.01175	8.108	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1258**	**0.04712**	**0.032**	**Yes**	**5**	**0.08644**	**0.02347**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01632	0.01061	0.032	No	36	0.01421	0.007347	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	21	0.003773	0.001824	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.0022	0.032	No	22	0.003995	0.001764	54.55	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.0024	0.032	No	22	0.003931	0.001586	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DPZ-02	0.02291	0.01309	0.032	No	12	0.018	0.006258	8.333	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.06847	0.0344	2	No	21	0.06196	0.06287	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03759	0.01303	2	No	22	0.04423	0.09266	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.124	0.06308	2	No	22	0.09352	0.05672	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1661	0.08587	2	No	21	0.1361	0.09097	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1159	0.08605	2	No	21	0.101	0.02703	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05285	2	No	21	0.08158	0.05209	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1188	0.06876	2	No	21	0.09378	0.04536	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07997	0.04877	2	No	10	0.06437	0.01748	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003674	0.0002088	0.021	No	21	0.0003768	0.000157	38.1	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	22	0.0004797	0.00009509	95.45	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	21	0.0004415	0.000147	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.00139	0.0007143	0.021	No	21	0.001052	0.0006128	9.524	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	21	0.000407	0.0001722	76.19	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.000281	0.0002052	0.021	No	21	0.000347	0.0001337	38.1	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	19	0.00097	0.0001308	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	19	0.006334	0.004422	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	19	0.006686	0.004464	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	20	0.007757	0.003987	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	19	0.006363	0.003944	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.006683	0.005449	0.1	No	19	0.007145	0.00198	26.32	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	19	0.006462	0.004281	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01052	0.006083	0.1	No	19	0.00921	0.003593	21.05	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.005015	0.002279	0.036	No	22	0.003647	0.002608	31.82	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	22	0.001007	0.0002541	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	22	0.0009636	0.0001497	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	21	0.0009719	0.0001532	90.48	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000481	0.036	No	21	0.0007393	0.0002605	47.62	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	21	0.000981	0.00008729	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	21	0.0009214	0.0002101	85.71	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.021	2.985	34.9	No	21	4.143	2.073	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.492	1.756	34.9	No	22	2.871	2.003	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.676	3.303	34.9	No	21	4.989	3.057	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.699	5.777	34.9	No	22	7.238	2.722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.233	2.321	34.9	No	21	2.777	0.8261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.889	3.788	34.9	No	22	5.339	2.888	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.691	3.84	34.9	No	22	5.265	2.657	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.561	5.795	34.9	No	10	7.678	2.11	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	22	0.1232	0.1081	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-05	0.5236	0.2939	4	No	24	0.4088	0.2252	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3147	0.114	4	No	22	0.2764	0.2398	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.692	0.1	4	No	23	0.377	0.3271	34.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.326	1.067	4	No	22	1.164	0.3136	4.545	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	24	0.2101	0.1703	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-17	1.2	0.1	4	No	23	0.681	0.5074	26.09	None	No	0.01	NP (normality)
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	10	0.1699	0.2176	80	None	No	0.011	NP (NDs)
Lead (mg/L)	MCM-05	0.002	0.0002	0.015	No	22	0.001918	0.0003838	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.002	0.00012	0.015	No	22	0.001915	0.0004008	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.002	0.0002	0.015	No	21	0.001732	0.000672	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	21	0.001586	0.0007735	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.002	0.00008	0.015	No	21	0.001909	0.000419	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	21	0.001747	0.0006367	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.0019	0.049	No	21	0.006929	0.004041	61.9	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.022	0.049	No	22	0.05375	0.1157	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06344	0.03609	0.049	No	6	0.04977	0.009955	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.0403	0.01967	0.049	No	23	0.03642	0.0318	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01137	0.009123	0.049	No	21	0.01004	0.002407	14.29	None	x^2	0.01	Param.

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MCM-14	0.04113	0.02272	0.049	No	23	0.03193	0.0176	8.696	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02571	0.01654	0.049	No	21	0.02112	0.008305	4.762	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09268**	**0.07174**	**0.049**	**Yes**	**12**	**0.07817**	**0.02517**	**8.333**	**None**	**x^3**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	19	0.0002268	0.000117	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	19	0.0001917	0.00003625	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	20	0.000198	0.000008944	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	19	0.0002247	0.0001078	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	19	0.0002242	0.0001055	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	19	0.0002232	0.0001009	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.00015	0.1	No	19	0.0009553	0.000195	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.00113	0.00095	0.1	No	19	0.001504	0.002043	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.00131	0.000983	0.1	No	20	0.001226	0.0004813	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.00146	0.00095	0.1	No	19	0.0009874	0.00015	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.001	0.00044	0.1	No	19	0.0008448	0.0002711	73.68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.00102	0.000313	0.1	No	19	0.0008858	0.0002745	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.001	0.000217	0.1	No	8	0.0007215	0.0003852	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	21	0.004429	0.001493	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	22	0.004505	0.001085	81.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	22	0.0045	0.001578	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.00238	0.05	No	21	0.004083	0.001332	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	21	0.003799	0.001585	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	21	0.004348	0.001316	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	21	0.004426	0.00176	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.005	0.00205	0.05	No	10	0.004381	0.001307	80	None	No	0.011	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	20	0.001904	0.0004302	95	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/22/2025, 2:35 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.08445**	**-47**	**-34**	**Yes**	**13**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.003838**	**-36**	**-30**	**Yes**	**12**	**8.333**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

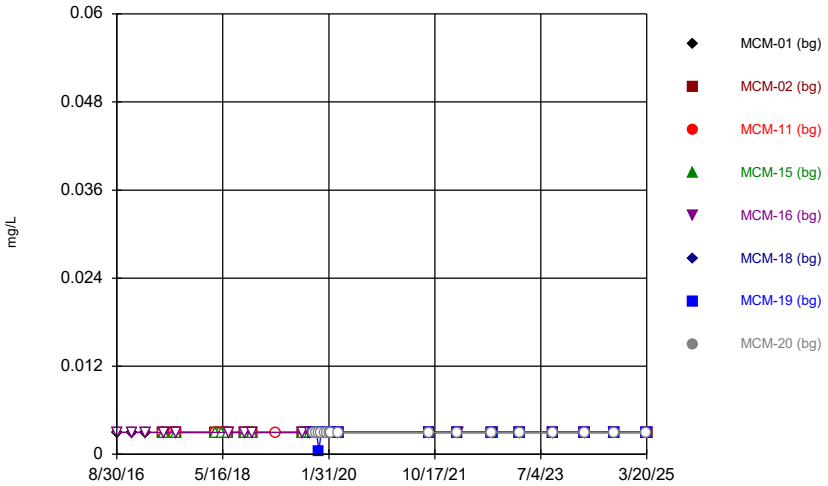
Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/22/2025, 2:35 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0002783	-17	-27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	7	27	No	11	81.82	n/a	0.05	NP
Arsenic (mg/L)	MCM-11 (bg)	0.001803	26	27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-15 (bg)	0.0005769	15	27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	7	27	No	11	72.73	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0001821	-46	-49	No	17	11.76	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001282	9	49	No	17	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0007171	-22	-49	No	17	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.08445**	**-47**	**-34**	**Yes**	**13**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	27	No	11	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	3	27	No	11	72.73	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	19	41	No	15	60	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.00001213	9	49	No	17	5.882	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0	4	49	No	17	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.003838**	**-36**	**-30**	**Yes**	**12**	**8.333**	**n/a**	**0.05**	**NP**

FIGURE A.

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Hollow symbols indicate censored values.

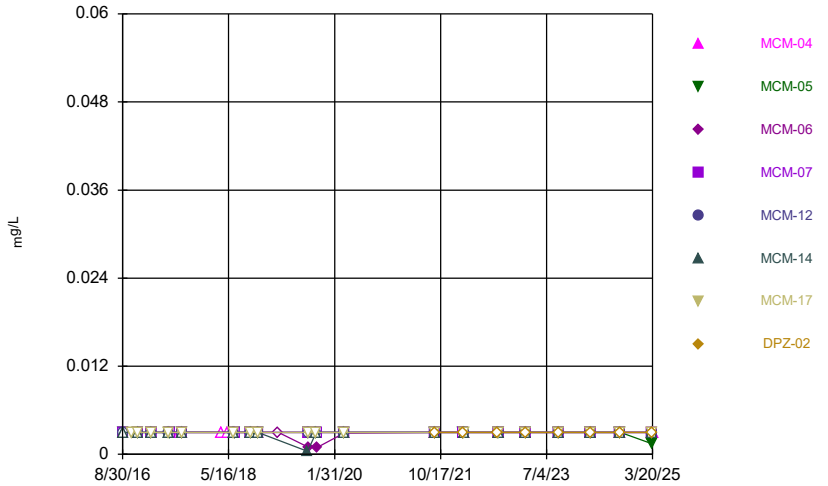
Time Series



Constituent: Antimony Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

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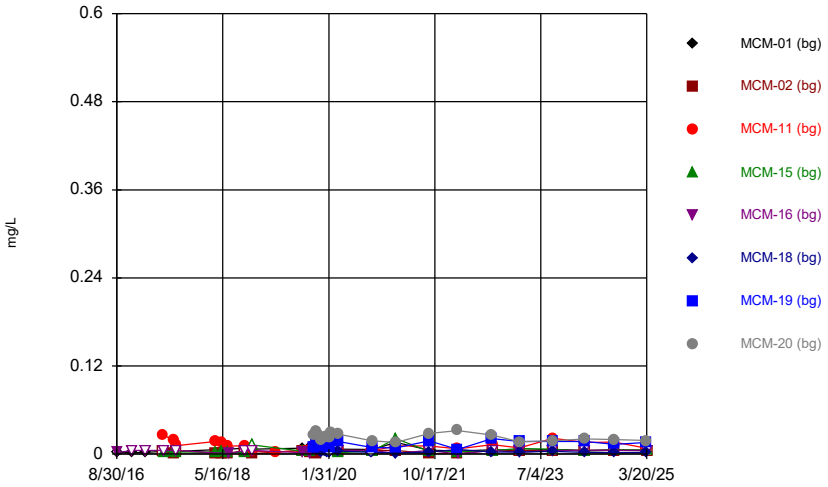
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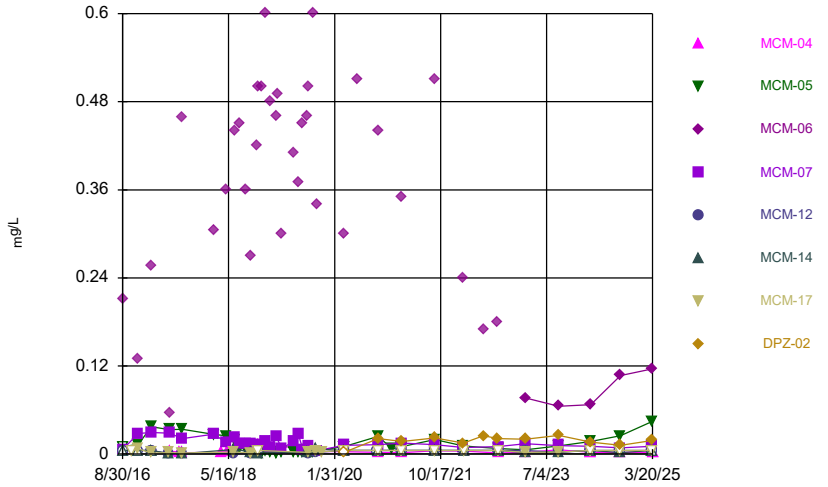
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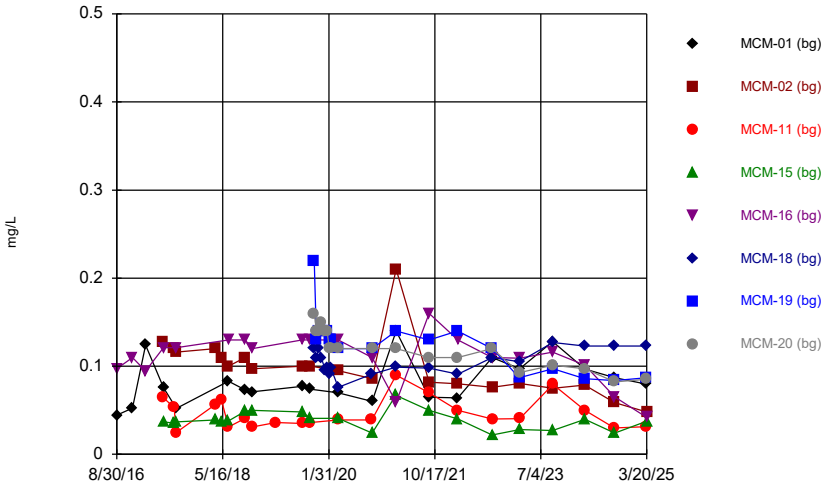
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Time Series

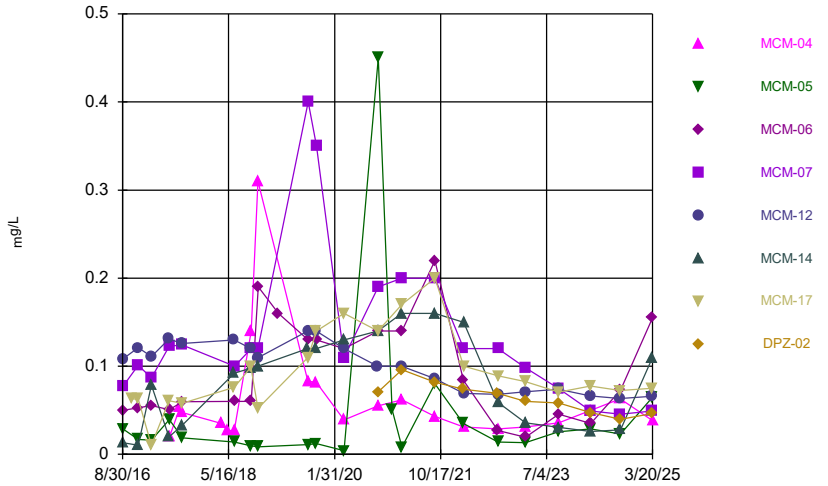


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Time Series



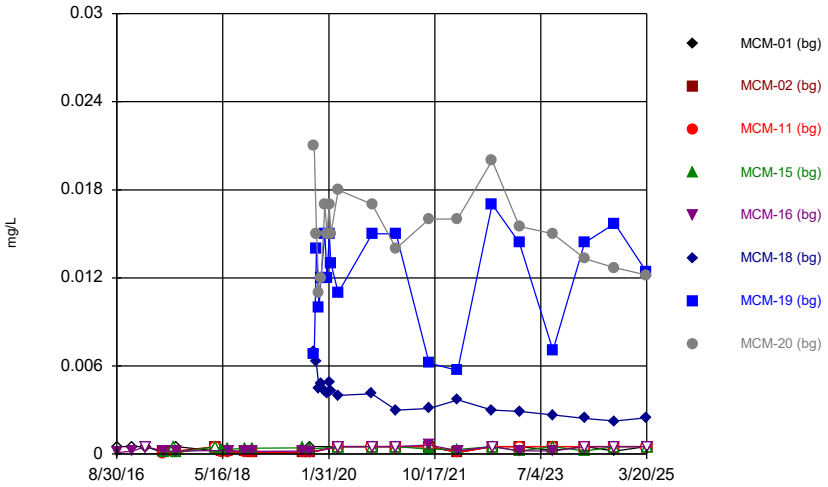
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Time Series



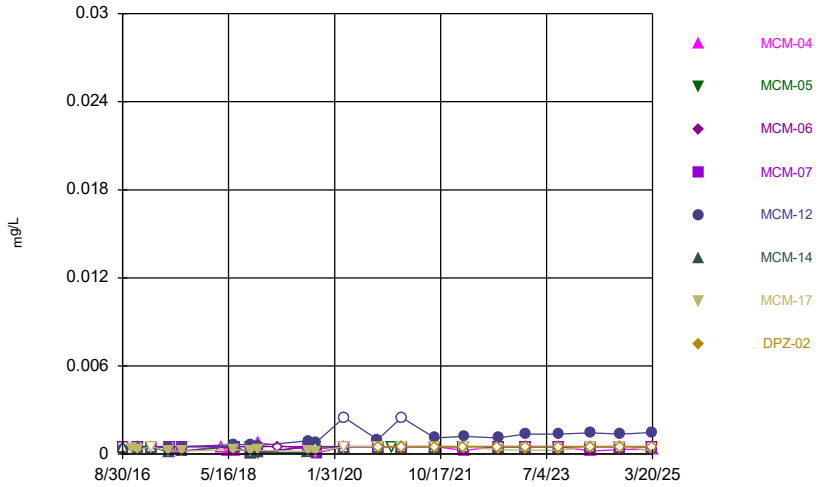
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Time Series

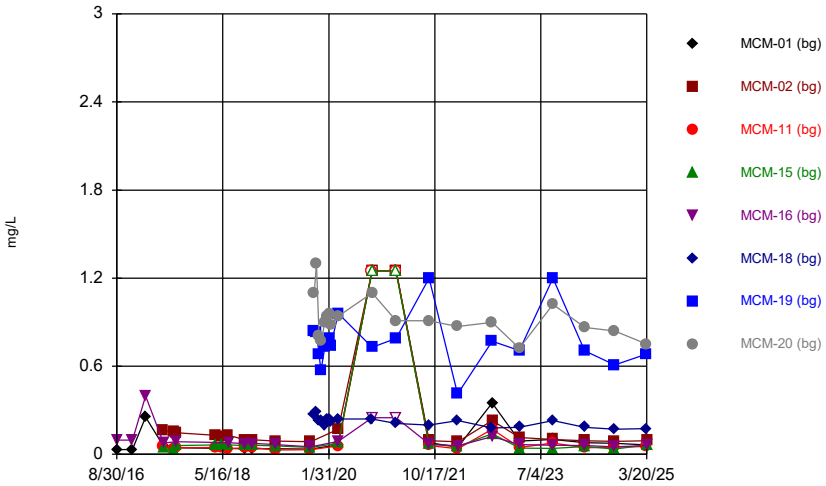


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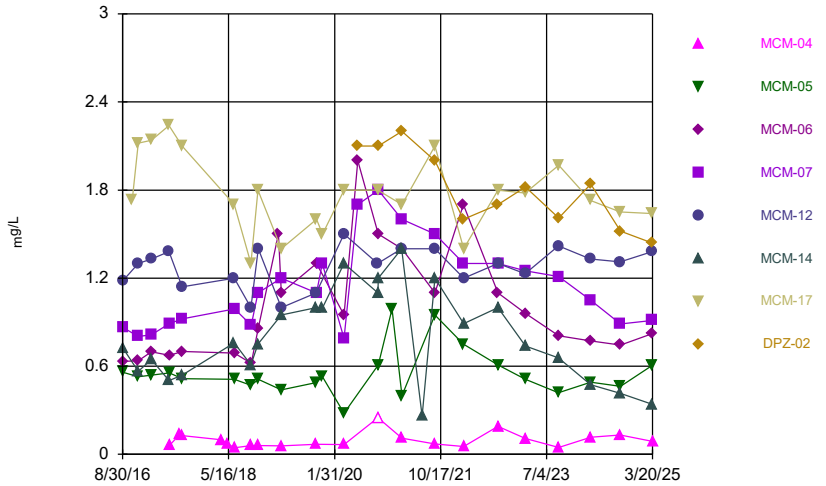
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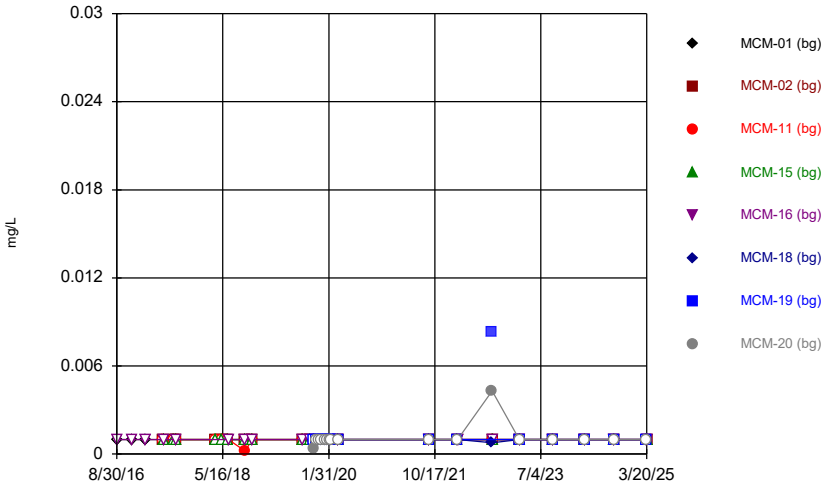
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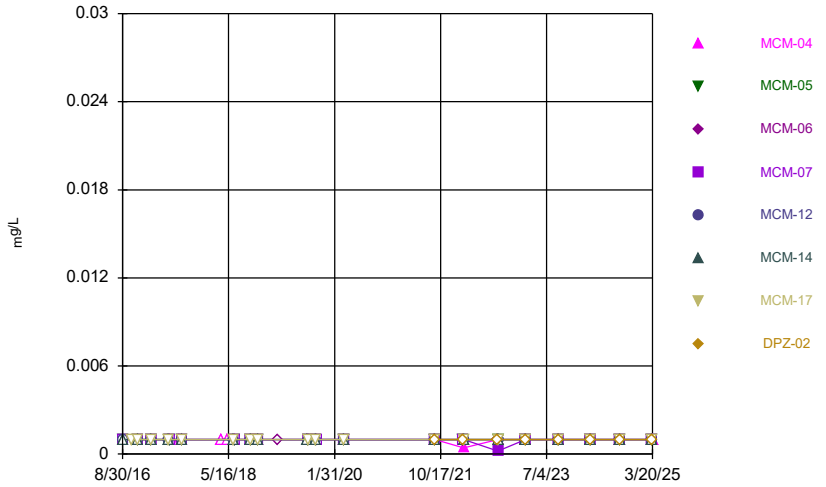
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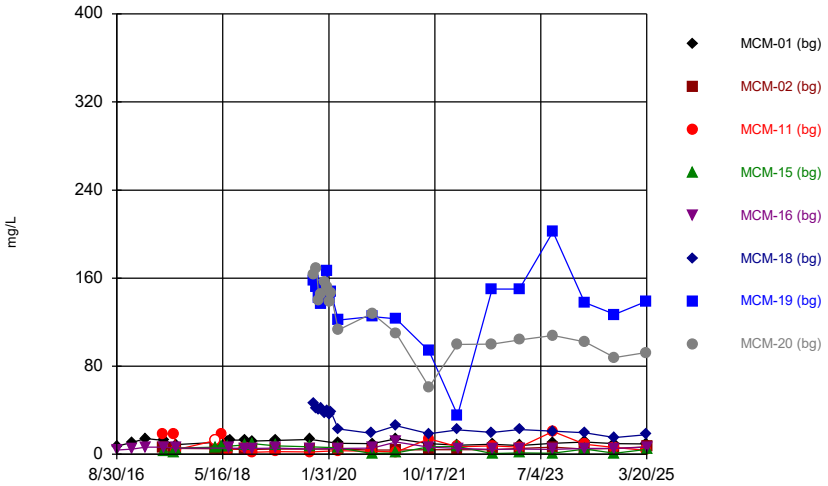
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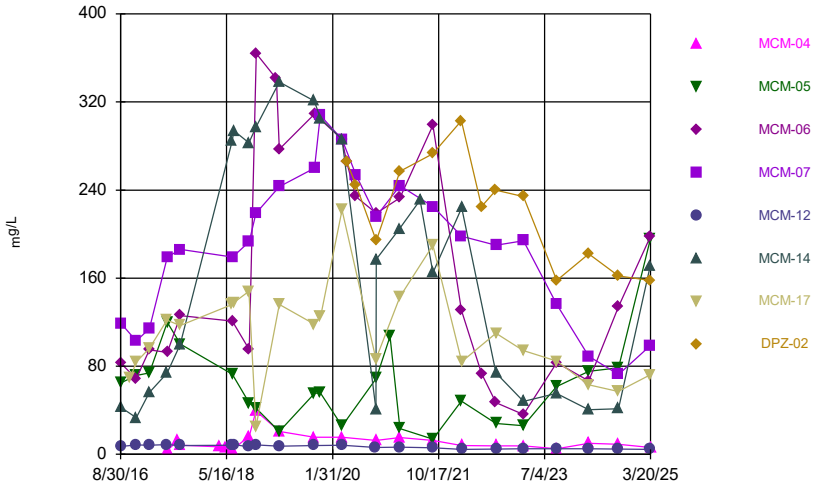
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Constituent: Calcium Analysis Run 5/22/2025 12:03 PM
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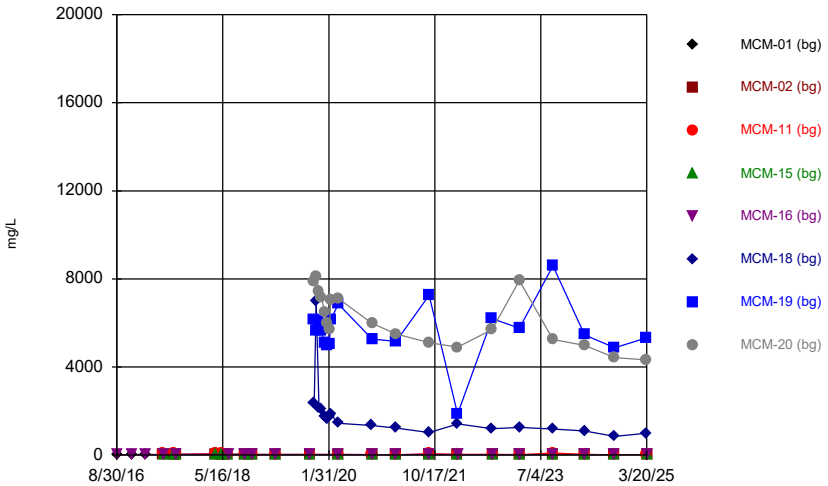
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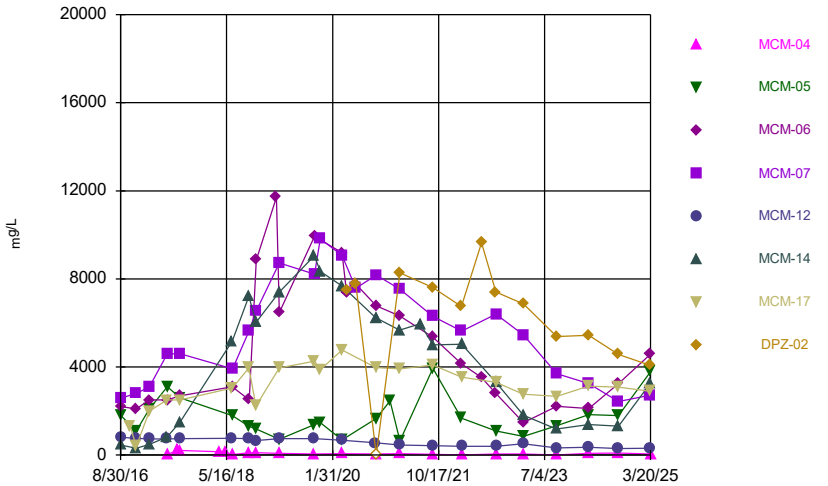
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Constituent: Chloride Analysis Run 5/22/2025 12:03 PM
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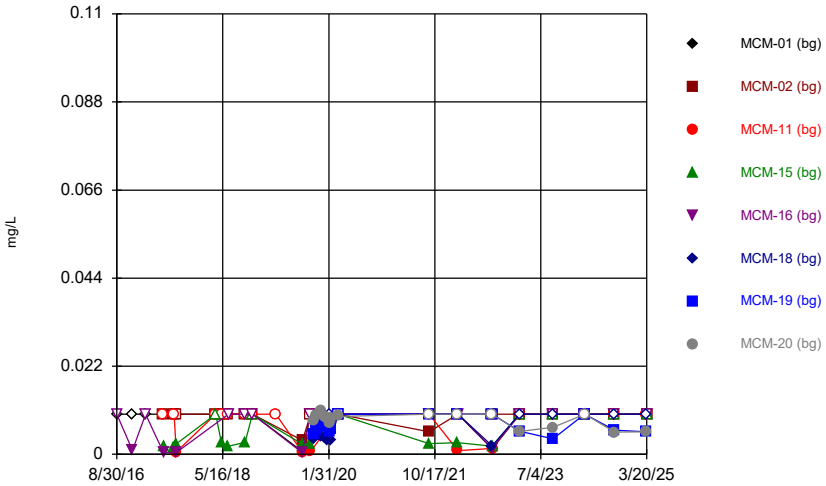
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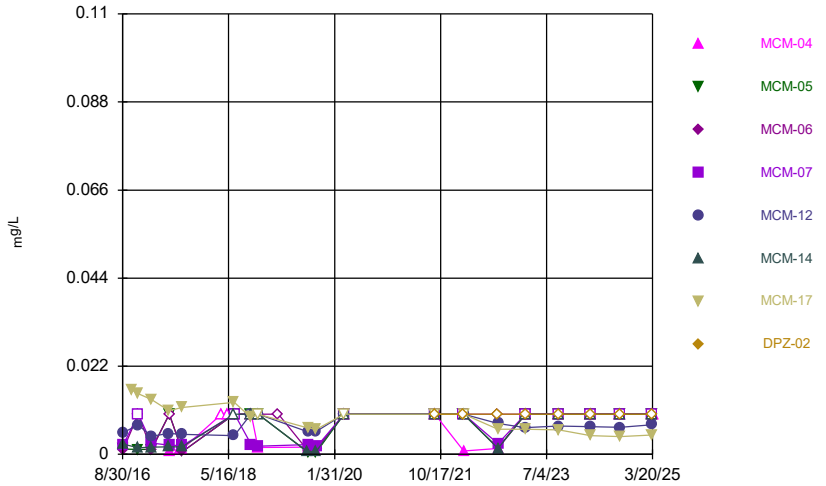
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Constituent: Chromium Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

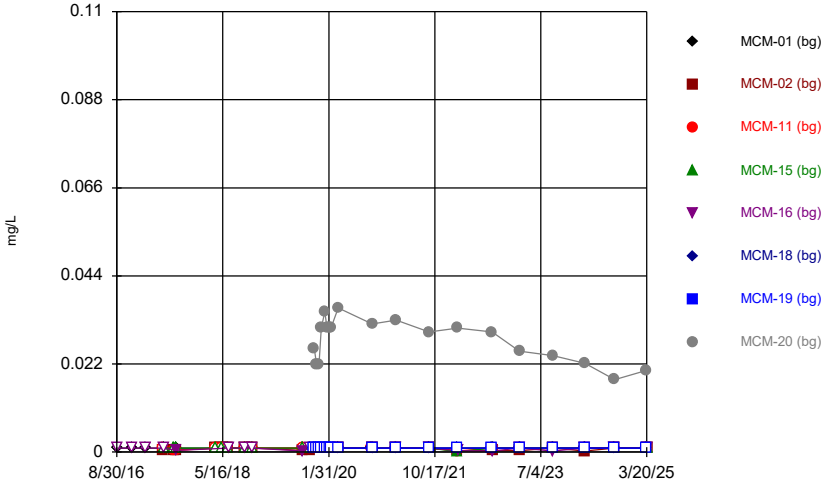
Time Series



Constituent: Chromium Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

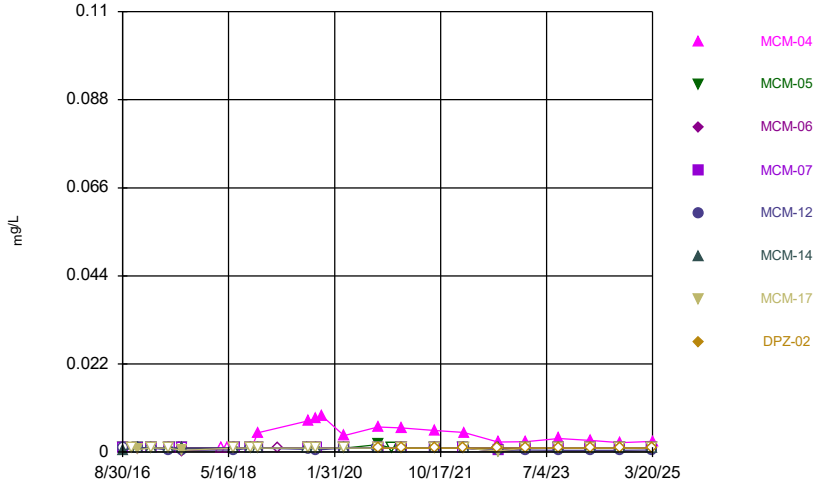
Time Series



Constituent: Cobalt Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

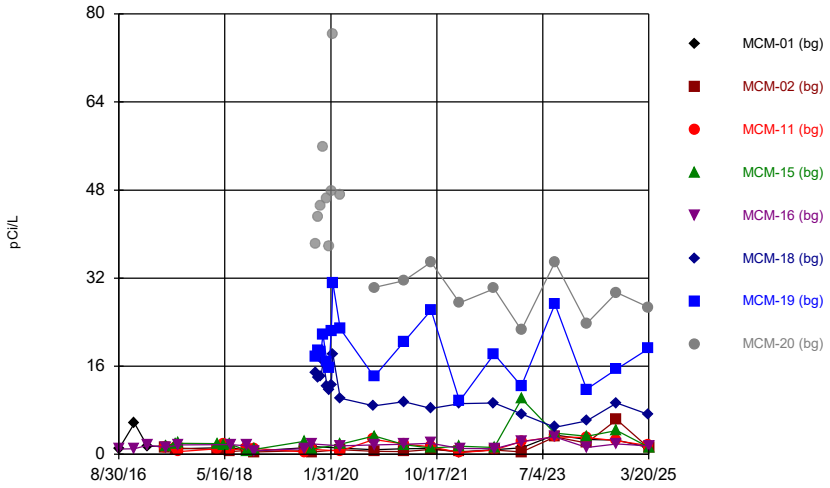
Time Series



Constituent: Cobalt Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

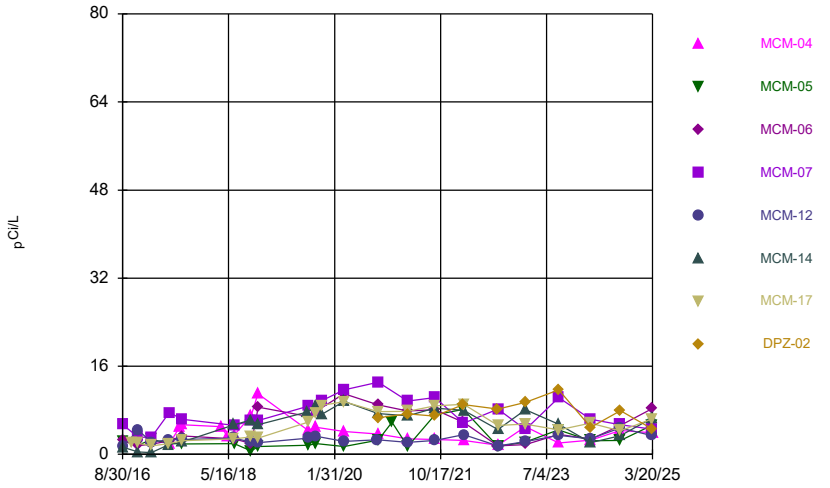


Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

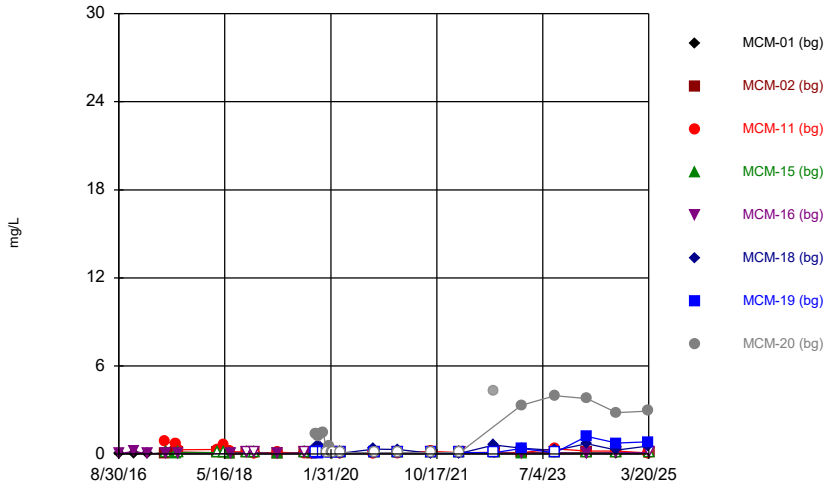


Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

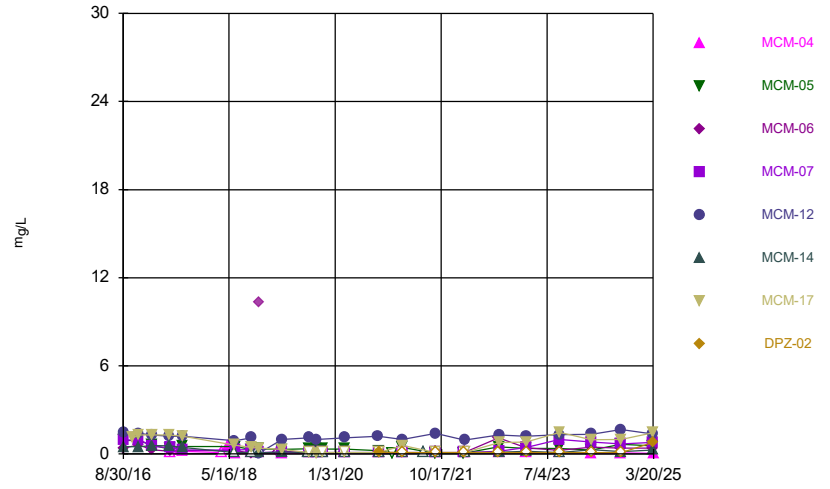


Constituent: Fluoride Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

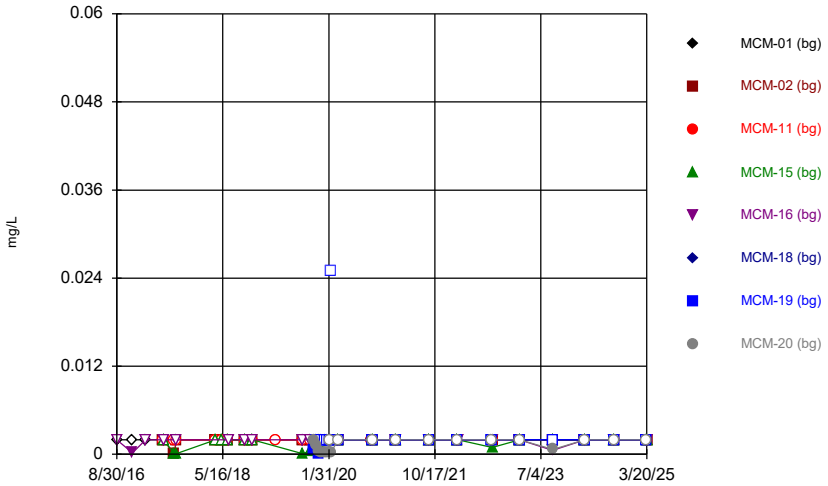


Constituent: Fluoride Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

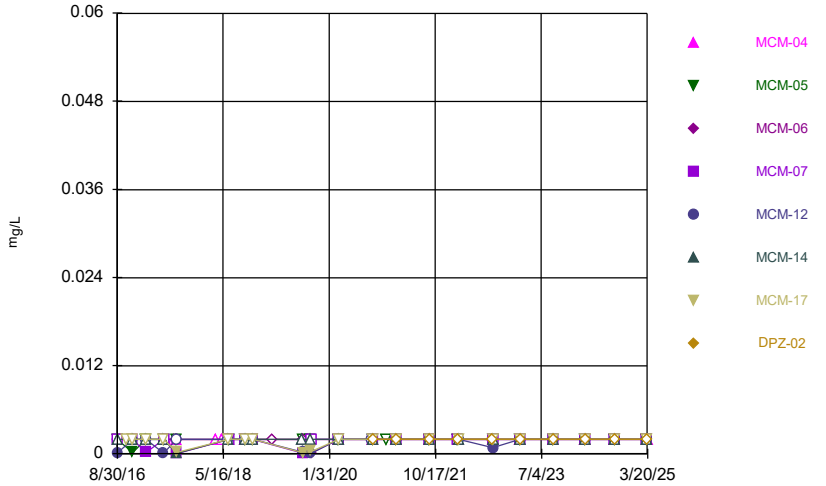
Time Series



Constituent: Lead Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

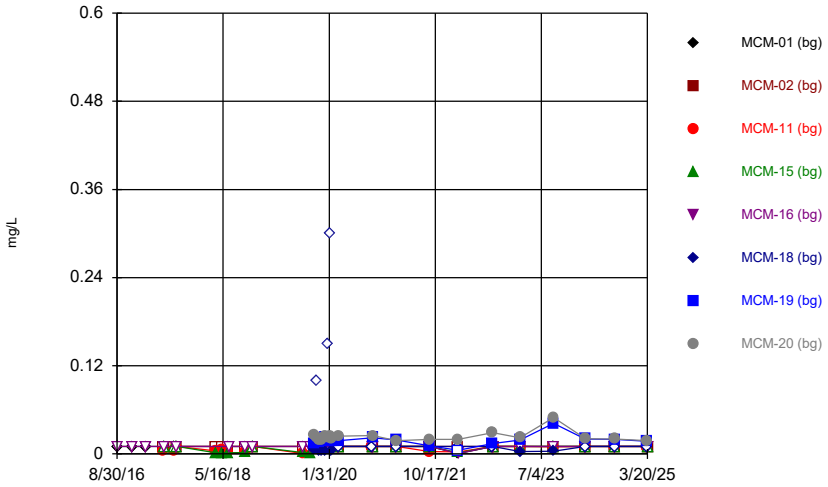
Time Series



Constituent: Lead Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

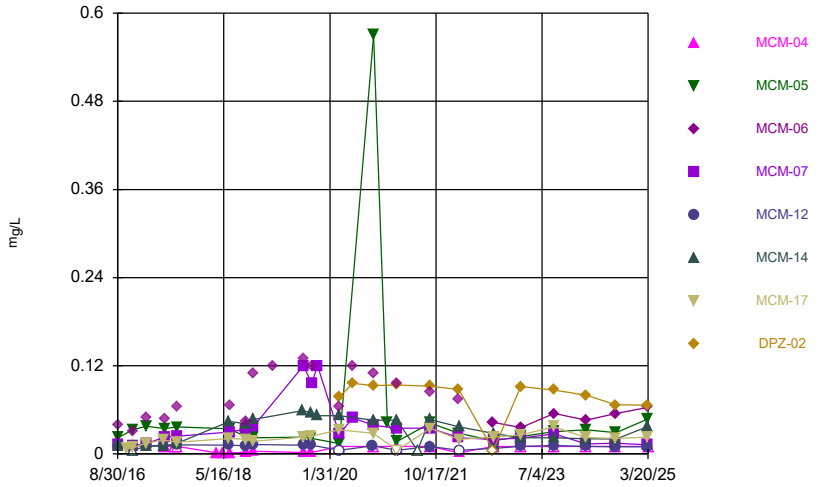
Time Series



Constituent: Lithium Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

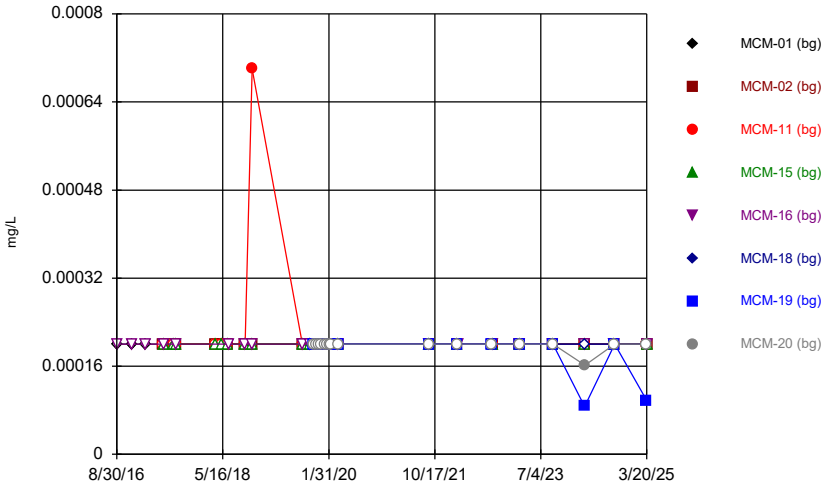
Time Series



Constituent: Lithium Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

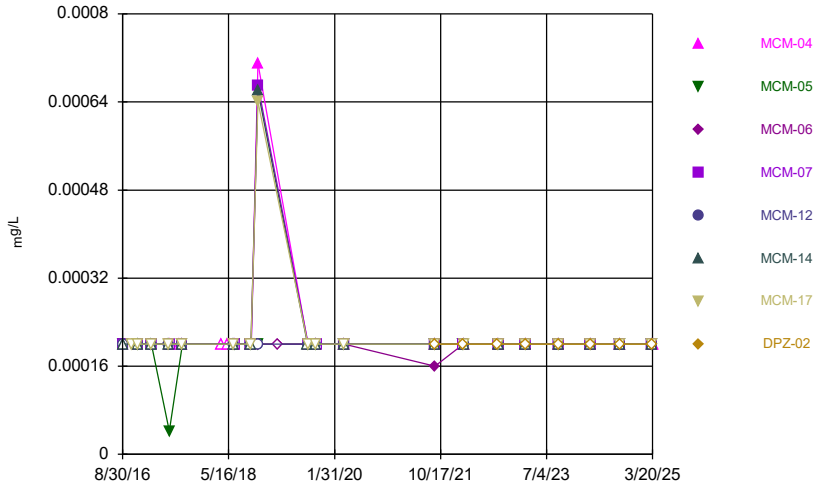
Time Series



Constituent: Mercury Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

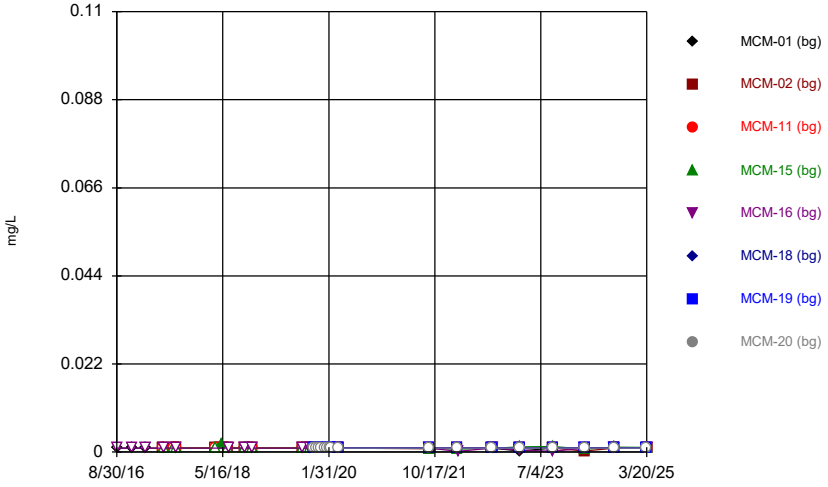
Time Series



Constituent: Mercury Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

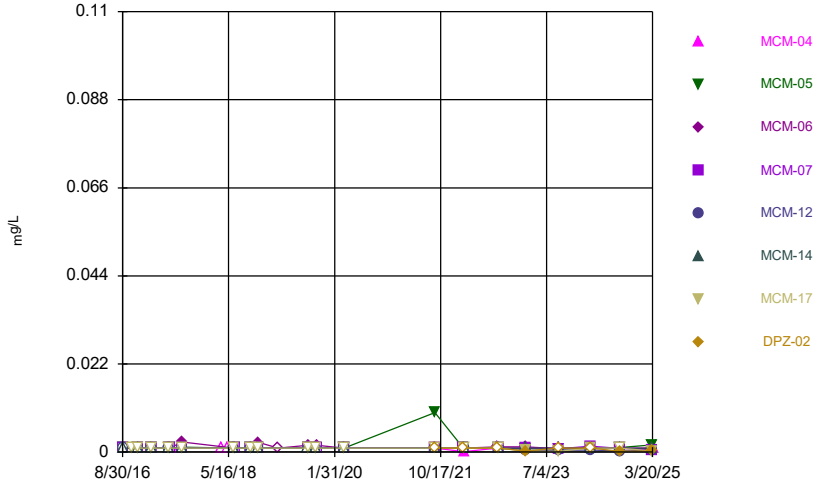
Time Series



Constituent: Molybdenum Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

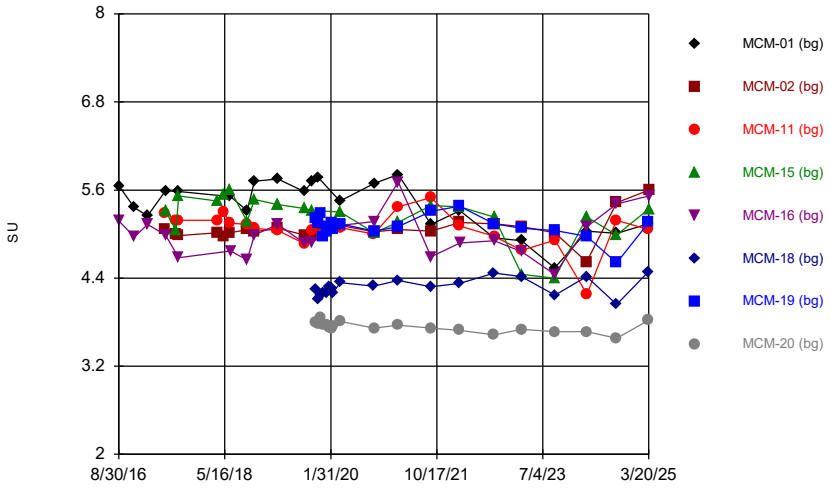
Time Series



Constituent: Molybdenum Analysis Run 5/22/2025 12:03 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

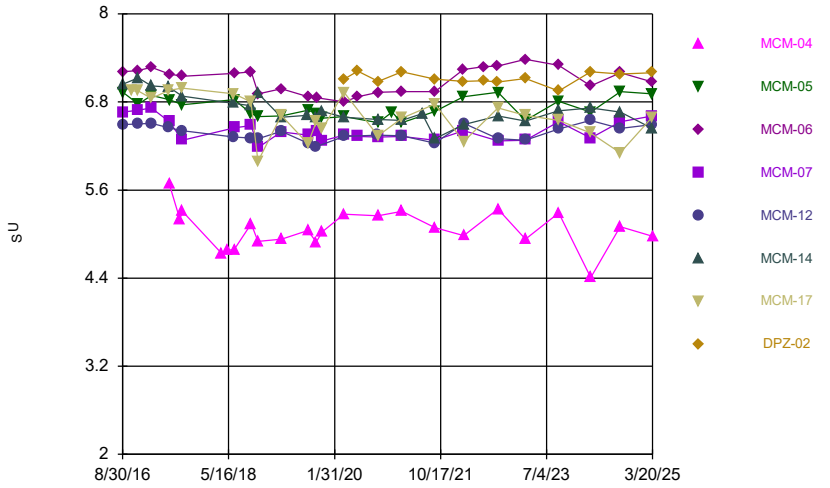


Constituent: pH, Field Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

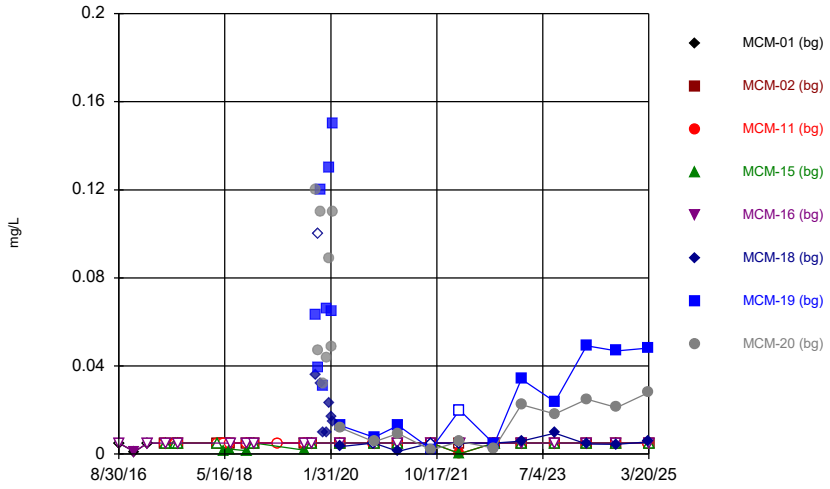


Constituent: pH, Field Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

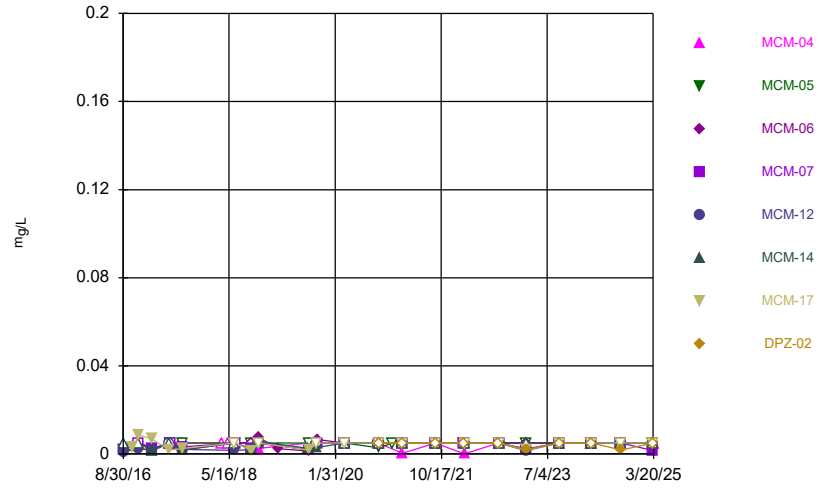


Constituent: Selenium Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

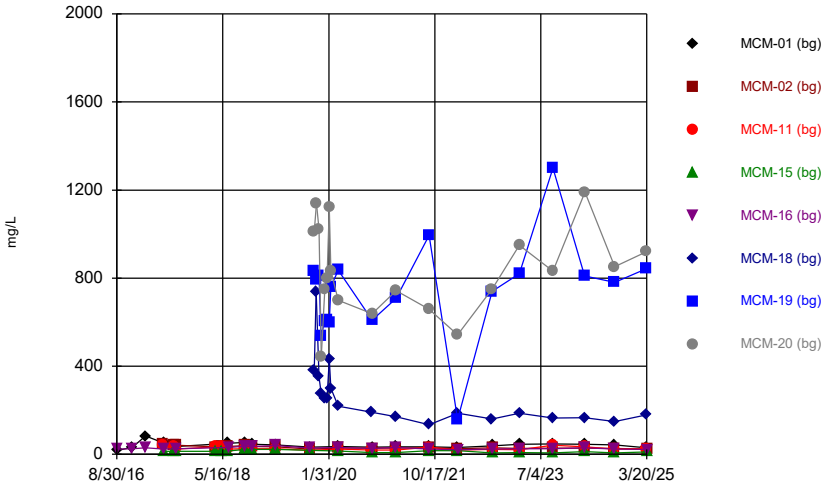


Constituent: Selenium Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



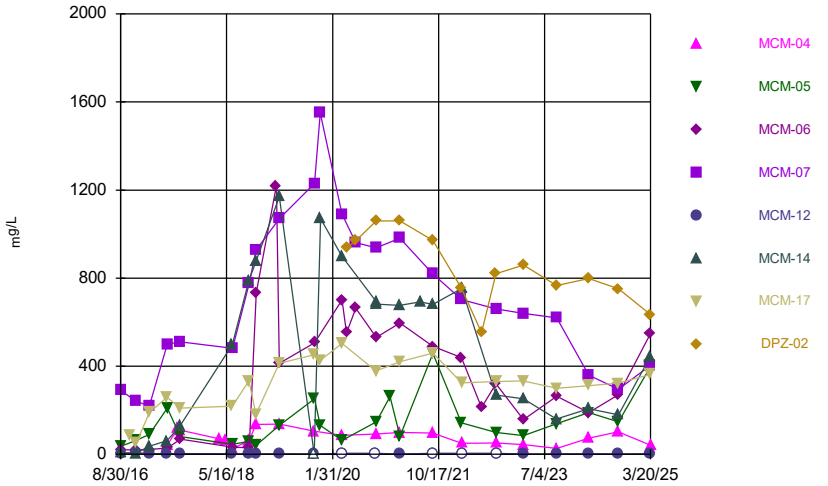
Constituent: Sulfate Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



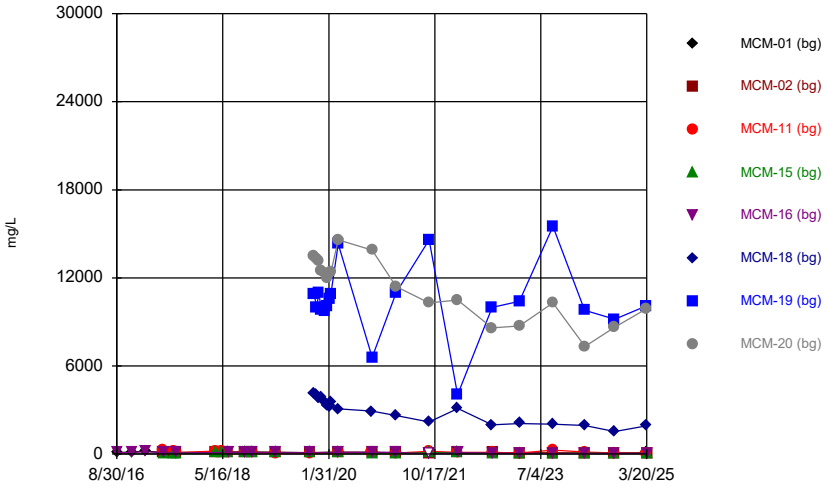
Constituent: Sulfate Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



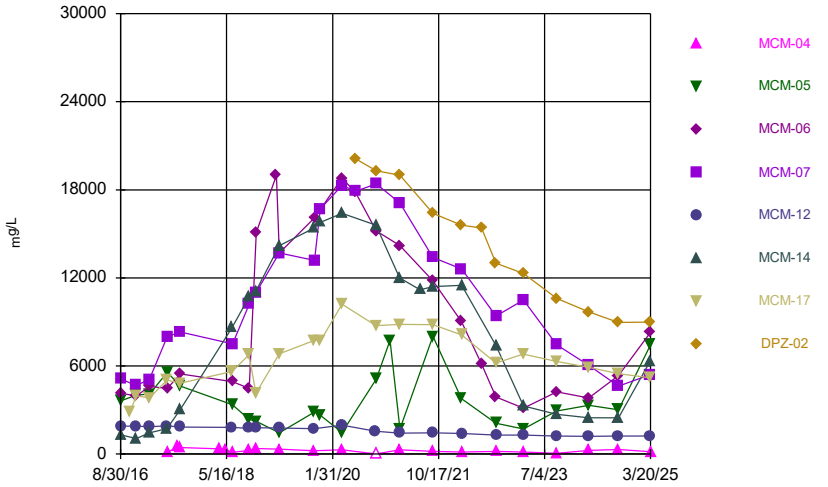
Constituent: TDS Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

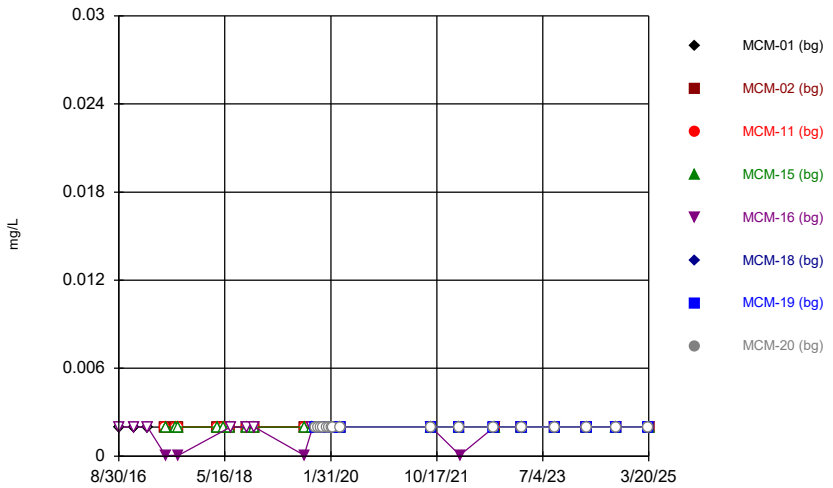


Constituent: TDS Analysis Run 5/22/2025 12:03 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

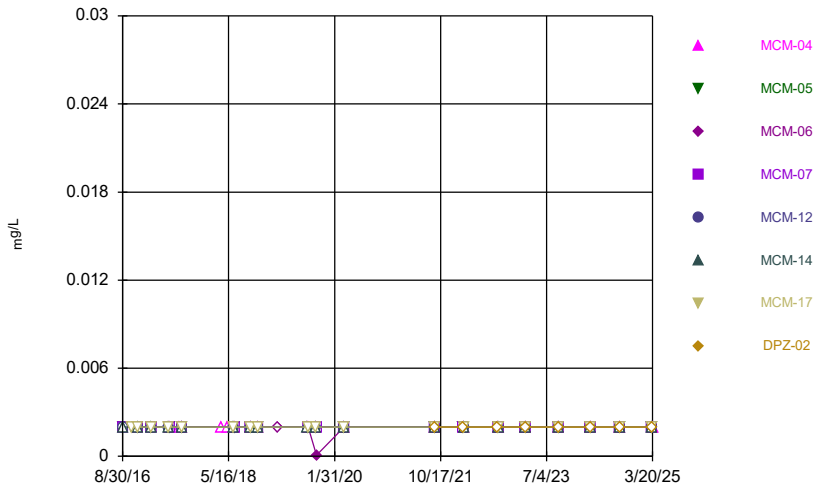


Constituent: Thallium Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.003				<0.003			
11/30/2016	<0.003				<0.003			
2/15/2017	<0.003				<0.003			
5/31/2017		<0.003	<0.003					
6/1/2017	<0.003				<0.003			
6/2/2017				<0.003				
8/2/2017		<0.003	<0.003	<0.003				
8/15/2017			<0.003					
8/16/2017	<0.003	<0.003						
8/17/2017				<0.003	<0.003			
4/4/2018			<0.003	<0.003				
4/5/2018		<0.003						
5/8/2018			<0.003	<0.003				
5/9/2018		<0.003						
6/19/2018	<0.003	<0.003	<0.003	<0.003				
6/20/2018					<0.003			
9/25/2018			<0.003					
9/26/2018	<0.003	<0.003		<0.003	<0.003			
11/6/2018			<0.003					
11/7/2018	<0.003	<0.003		<0.003	<0.003			
3/25/2019			<0.003					
8/27/2019	<0.003			<0.003	<0.003			
8/28/2019		<0.003	<0.003					
10/15/2019				<0.003				
10/16/2019	<0.003	<0.003	<0.003		<0.003			
11/7/2019						<0.003	<0.003	<0.003
11/18/2019						<0.003		
11/19/2019							<0.003	<0.003
12/4/2019							0.00041 (J)	<0.003
12/5/2019						<0.003		
12/17/2019							<0.003	
12/18/2019						<0.003		<0.003
1/8/2020							<0.003	<0.003
1/9/2020						<0.003		
1/21/2020						<0.003	<0.003	<0.003
2/4/2020						<0.003	<0.003	<0.003
2/13/2020						<0.003	<0.003	<0.003
3/26/2020	<0.003							
3/27/2020		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2021	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022							<0.003	<0.003
3/2/2022	<0.003	<0.003	<0.003	<0.003		<0.003		
3/3/2022					<0.003			
9/20/2022						<0.003	<0.003	<0.003
9/21/2022	<0.003	<0.003	<0.003	<0.003	<0.003			
2/28/2023						<0.003	<0.003	<0.003
3/1/2023	<0.003	<0.003	<0.003		<0.003			
3/2/2023				<0.003				
9/12/2023	<0.003			<0.003	<0.003			
9/13/2023			<0.003				<0.003	<0.003
9/14/2023		<0.003				<0.003		
3/19/2024		<0.003				<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.003		<0.003	<0.003				
3/21/2024					<0.003			<0.003
9/10/2024			<0.003					
9/11/2024	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
3/18/2025	<0.003		<0.003					
3/19/2025						<0.003	<0.003	<0.003
3/20/2025		<0.003		<0.003	<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.003	<0.003		
8/31/2016		<0.003	<0.003	<0.003				
10/25/2016							<0.003	
11/30/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/15/2017					<0.003	<0.003	<0.003	
2/16/2017		<0.003	<0.003	<0.003				
5/31/2017					<0.003	<0.003	<0.003	
6/1/2017	<0.003							
6/2/2017		<0.003	<0.003	<0.003				
8/2/2017	<0.003							
8/15/2017					<0.003		<0.003	
8/16/2017						<0.003		
8/17/2017	<0.003	<0.003	<0.003	<0.003				
4/4/2018	<0.003							
5/8/2018	<0.003							
6/19/2018					<0.003	<0.003	<0.003	
6/20/2018	<0.003	<0.003	<0.003					
6/21/2018				<0.003				
9/25/2018					<0.003	<0.003		
9/26/2018							<0.003	
9/27/2018	<0.003	<0.003	<0.003	<0.003				
11/6/2018	<0.003			<0.003		<0.003	<0.003	
11/7/2018		<0.003	<0.003		<0.003			
3/6/2019			<0.003					
8/26/2019						0.0004 (J)		
8/27/2019	<0.003				<0.003		<0.003	
8/28/2019		<0.003	0.00098 (J)	<0.003				
10/15/2019	<0.003				<0.003	<0.003		
10/16/2019		<0.003					<0.003	
10/17/2019			0.0009 (J)	<0.003				
3/27/2020					<0.003	<0.003	<0.003	
3/28/2020	<0.003	<0.003	0.0029 (J)	<0.003				
9/13/2021					<0.003	<0.003		
9/14/2021	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003
3/1/2022		<0.003	<0.003					<0.003
3/2/2022				<0.003				
3/3/2022	<0.003				<0.003	<0.003	<0.003	
9/20/2022			<0.003					<0.003
9/21/2022	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	
2/28/2023					<0.003		<0.003	
3/1/2023	<0.003							
3/2/2023		<0.003	<0.003	<0.003		<0.003		<0.003
9/12/2023		<0.003			<0.003	<0.003		
9/13/2023	<0.003			<0.003			<0.003	
9/14/2023			<0.003					<0.003
3/19/2024					<0.003		<0.003	
3/20/2024	<0.003					<0.003		
3/21/2024		<0.003	<0.003	<0.003				<0.003
9/10/2024	<0.003				<0.003		<0.003	
9/11/2024		<0.003		<0.003		<0.003		<0.003
9/12/2024			<0.003					
3/17/2025					<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.003	<0.003
3/19/2025		0.00142 (J)	<0.003	<0.003				
3/20/2025	<0.003							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				0.0018 (J)			
11/30/2016	0.0018 (J)				<0.005			
2/15/2017	0.0022 (J)				<0.005			
5/31/2017		<0.005	0.0259					
6/1/2017	0.0036 (J)				<0.005			
6/2/2017				0.0026 (J)				
8/2/2017		0.0011 (J)	0.0188	0.0047 (J)				
8/15/2017			0.0117					
8/16/2017	0.0038 (J)	<0.005						
8/17/2017				0.0028 (J)	<0.005			
4/4/2018			0.017	0.0029 (J)				
4/5/2018		0.00098 (J)						
5/8/2018			0.016	0.0048 (J)				
5/9/2018		0.0014 (J)						
6/19/2018	0.0069	0.0011 (J)	0.011	0.0019 (J)				
6/20/2018					0.00058 (J)			
9/25/2018			0.011					
9/26/2018	0.0081	<0.005		0.0023 (J)	<0.005			
11/6/2018			0.0043 (J)					
11/7/2018	0.0069	0.00059 (J)		<0.025	<0.005			
3/25/2019			0.0029 (J)					
8/27/2019	0.0079			0.0041 (J)	0.0019 (J)			
8/28/2019		<0.005	0.005 (J)					
10/15/2019				0.0038 (J)				
10/16/2019	0.01	0.003 (J)	0.0054		0.001 (J)			
11/7/2019						0.0067	0.0094 (J)	0.026
11/18/2019						0.012 (J)		
11/19/2019		0.00057 (J)					0.019 (J)	0.031 (J)
11/20/2019	0.0064							
12/4/2019							0.016	0.026
12/5/2019						0.0055		
12/17/2019							0.011 (J)	
12/18/2019						0.0031 (J)		0.019 (J)
1/8/2020							0.015 (J)	0.022 (J)
1/9/2020						0.0034 (J)		
1/21/2020						0.0031 (J)	0.015 (J)	0.024 (J)
2/4/2020						<0.005	0.0092 (J)	0.022 (J)
2/13/2020						0.0066	0.021 (J)	0.029
3/26/2020	0.0069							
3/27/2020		<0.005	0.0034 (J)	0.0018 (J)	<0.005	0.0043 (J)	0.017	0.027
10/12/2020			0.0047 (J)			<0.005		
10/13/2020	0.0061	<0.005		0.0042 (J)	<0.005		0.0089	0.018
3/2/2021				0.021 (J)				
3/3/2021	0.016 (J)	<0.005	0.011 (J)		0.0012 (J)	0.0014 (J)	0.0086 (J)	0.016 (J)
9/14/2021	0.0055	0.00067 (J)	0.011	0.0035 (J)	<0.005	0.0029 (J)	0.018 (J)	0.028
3/1/2022							0.0061 (J)	0.032
3/2/2022	0.0043	0.00077 (J)	0.0071	0.0032		0.0064 (J)		
3/3/2022					0.00024 (J)			
9/20/2022						0.0026 (J)	0.021	0.026
9/21/2022	0.0057 (J)	<0.005	0.013	0.0044 (J)	<0.005			
2/28/2023						0.00273 (J)	0.0173	0.0166
3/1/2023	0.00493 (J)	<0.005	0.00868 (J)		0.00223 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023				0.00756 (J)				
9/12/2023	0.00628			0.00677	<0.005			
9/13/2023			0.0217				0.0172	0.0182
9/14/2023		<0.005				0.00374 (J)		
3/19/2024		<0.005				0.00252 (J)	0.0173 (J)	
3/20/2024	0.0048 (J)		0.0158	0.00409 (J)				
3/21/2024					<0.005			0.0206 (J)
9/10/2024			0.0163					
9/11/2024	0.00586	<0.005		0.00538	<0.005	0.0021 (J)	0.0134	0.0197
3/18/2025	0.00514		0.00783					
3/19/2025						0.00245 (J)	0.0158	0.0183
3/20/2025		<0.005		0.00584	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.005		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.005	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.005	0.0072	
2/15/2017					<0.005	<0.005	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.005	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.005	<0.005	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.005	<0.005	
10/14/2020			0.44 (D)	0.013		<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.005		
3/3/2021							<0.005	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.005		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.005	<0.005	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.005	<0.005	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.005		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.005		
3/18/2025							<0.005	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0443				0.0973			
11/30/2016	0.0524				0.11			
2/15/2017	0.124				0.0945			
5/31/2017		0.127	0.0646					
6/1/2017	0.0757				0.121			
6/2/2017				0.0368 (J)				
8/2/2017		0.121	0.0533	0.0355				
8/15/2017			0.0247					
8/16/2017	0.0522	0.116						
8/17/2017				0.037	0.121			
4/4/2018			0.057	0.039				
4/5/2018		0.12						
5/8/2018			0.062	0.037				
5/9/2018		0.11						
6/19/2018	0.083	0.1	0.031	0.038				
6/20/2018					0.13			
9/25/2018			0.041					
9/26/2018	0.073	0.11		0.049	0.13			
11/6/2018			0.031					
11/7/2018	0.071	0.097		0.05	0.12			
3/25/2019			0.036					
8/27/2019	0.077			0.048	0.13			
8/28/2019		0.1	0.035					
10/15/2019				0.041				
10/16/2019	0.074	0.1	0.036		0.13			
11/7/2019						0.12	0.22	0.16
11/18/2019						0.11		
11/19/2019							0.13	0.14
12/4/2019							0.14	0.14
12/5/2019						0.12		
12/17/2019							0.14	
12/18/2019						0.11		0.15
1/8/2020							0.14	0.14
1/9/2020						0.096		
1/21/2020						0.098	0.14	0.14
2/4/2020						0.091	0.13	0.12
2/13/2020						0.098	0.13	0.12
3/26/2020	0.07							
3/27/2020		0.095	0.039	0.041	0.13	0.076	0.12	0.12
10/12/2020			0.039			0.091		
10/13/2020	0.06	0.086		0.024	0.11		0.12	0.12
3/2/2021				0.067				
3/3/2021	0.14	0.21	0.09		0.059	0.099	0.14	0.12
9/14/2021	0.065	0.082	0.07	0.05	0.16	0.098	0.13	0.11
3/1/2022							0.14	0.11
3/2/2022	0.064	0.08	0.05	0.04		0.091		
3/3/2022					0.13			
9/20/2022						0.11	0.12	0.12
9/21/2022	0.11	0.076	0.04	0.022	0.11			
2/28/2023						0.105 (J)	0.0869 (J)	0.0928 (J)
3/1/2023	0.097 (J)	0.0806 (J)	0.0405 (J)		0.109 (J)			
3/2/2023				0.0282 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.128			0.0272	0.116			
9/13/2023			0.0794				0.097	0.101
9/14/2023		0.075				0.127		
3/19/2024		0.0787				0.123	0.0858	
3/20/2024	0.0969		0.05	0.0396				
3/21/2024					0.101			0.097
9/10/2024			0.0301					
9/11/2024	0.0868	0.0585		0.0243	0.0651	0.123	0.0837	0.0823
3/18/2025	0.0796		0.0313					
3/19/2025						0.123	0.0871	0.0852
3/20/2025		0.048		0.0374	0.0421			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0005				0.0001 (J)			
11/30/2016	<0.0005				0.0002 (J)			
2/15/2017	<0.0005				<0.0005			
5/31/2017		0.0002 (J)	7E-05 (J)					
6/1/2017	9E-05 (J)				0.0002 (J)			
6/2/2017				0.0001 (J)				
8/2/2017		0.0002 (J)	0.0001 (J)	<0.0005				
8/15/2017			9E-05 (J)					
8/16/2017	<0.0005	0.0002 (J)						
8/17/2017				0.0001 (J)	0.0002 (J)			
4/4/2018			<0.0005	<0.0005				
4/5/2018		<0.0005						
5/8/2018			0.0001 (J)	0.00031 (J)				
5/9/2018		0.00017 (J)						
6/19/2018	0.00011 (J)	0.00017 (J)	0.00011 (J)	0.00034 (J)				
6/20/2018					0.00024 (J)			
9/25/2018			0.0001 (J)					
9/26/2018	9.2E-05 (J)	0.00017 (J)		0.00039 (J)	0.00019 (J)			
11/6/2018			0.00012 (J)					
11/7/2018	0.0001 (J)	0.00015 (J)		0.00041 (J)	0.00019 (J)			
8/27/2019	9E-05 (J)			0.00042 (J)	0.00021 (J)			
8/28/2019		0.00011 (J)	8.4E-05 (J)					
10/15/2019				0.00034 (J)				
10/16/2019	<0.0005	0.00013 (J)	9E-05 (J)		0.00014 (J)			
11/7/2019						0.007	0.0068 (J)	0.021
11/18/2019						0.0063 (J)		
11/19/2019							0.014 (J)	0.015 (J)
12/4/2019							0.01	0.011
12/5/2019						0.0045		
12/17/2019							0.012	
12/18/2019						0.0048		0.012
1/8/2020							0.015 (J)	0.017
1/9/2020						0.0043		
1/21/2020						0.0041 (J)	0.012 (J)	0.015
2/4/2020						0.0049 (J)	0.015 (J)	0.017 (J)
2/13/2020						0.0043	0.013 (J)	0.015 (J)
3/26/2020	<0.0005							
3/27/2020		<0.0005	<0.0005	<0.0005	<0.0005	0.004	0.011	0.018
10/12/2020			<0.0005			0.0041		
10/13/2020	<0.0005	<0.0005		<0.0005	<0.0005		0.015	0.017
3/2/2021				<0.0005				
3/3/2021	<0.0005	<0.0005	<0.0005		<0.0005	0.003	0.015	0.014
9/14/2021	<0.0005	<0.0005	<0.0005	0.00034 (J)	0.00062	0.0031	0.0062	0.016
3/1/2022							0.0057	0.016
3/2/2022	9.6E-05 (J)	0.00015	0.00011	0.00032		0.0037		
3/3/2022					0.00023			
9/20/2022						0.003	0.017	0.02
9/21/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/28/2023						0.0029 (J)	0.0144	0.0155
3/1/2023	<0.0005	<0.0005	<0.0005		0.000223 (J)			
3/2/2023				0.000201 (J)				
9/12/2023	0.000253 (J)			<0.0005	0.000209 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.0005				0.00707	0.015
9/14/2023		<0.0005				0.00267		
3/19/2024		<0.0005				0.00243	0.0144	
3/20/2024	<0.0005		<0.0005	0.000215 (J)				
3/21/2024					<0.0005			0.0133
9/10/2024			<0.0005					
9/11/2024	0.0002 (J)	<0.0005		<0.0005	<0.0005	0.00225	0.0157	0.0127
3/18/2025	<0.0005		<0.0005					
3/19/2025						0.00248	0.0124	0.0122
3/20/2025		<0.0005		<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0003 (J)	<0.0005		
8/31/2016		<0.0005	<0.0005	<0.0005				
10/25/2016							0.0004 (J)	
11/30/2016		<0.0005	<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)	
2/15/2017					0.0004 (J)	<0.0005	<0.0005	
2/16/2017		<0.0005	<0.0005	<0.0005				
5/31/2017					0.0005 (J)	0.0001 (J)	0.0002 (J)	
6/1/2017	0.0001 (J)							
6/2/2017		<0.0005	<0.0005	<0.0005				
8/2/2017	0.0003 (J)							
8/15/2017					0.0005 (J)		0.0002 (J)	
8/16/2017						0.0002 (J)		
8/17/2017	0.0002 (J)	<0.0005	<0.0005	<0.0005				
4/4/2018	<0.0005							
5/8/2018	0.00025 (J)							
6/19/2018					0.00065 (J)	<0.0005	0.00032 (J)	
6/20/2018	0.00021 (J)	<0.0005	<0.0005					
6/21/2018				<0.0005				
9/25/2018					0.00066 (J)	5E-05 (J)		
9/26/2018							0.00024 (J)	
9/27/2018	0.00031 (J)	<0.0005	<0.0005	7.4E-05 (J)				
11/6/2018	0.00077 (J)			0.00012 (J)		9.7E-05 (J)	0.00026 (J)	
11/7/2018		5.4E-05 (J)	<0.0005		0.00058 (J)			
3/6/2019			<0.0005					
8/26/2019						0.0001 (J)		
8/27/2019	0.00032 (J)				0.0009 (J)		0.00018 (J)	
8/28/2019		<0.0005	<0.0005	<0.0005				
10/15/2019	0.00035 (J)				0.00079 (J)	<0.0005		
10/16/2019		<0.0005					0.00014 (J)	
10/17/2019			<0.0005	7.8E-05 (J)				
3/27/2020					<0.005	<0.0005	<0.0005	
3/28/2020	<0.0005	<0.0005	<0.0005	<0.0005				
10/12/2020					0.001 (J)			
10/13/2020	<0.0005					<0.0005	<0.0005	
10/14/2020			<0.0005	<0.0005				
10/15/2020		<0.0005						<0.0005
1/4/2021		<0.0005						
3/2/2021					<0.005	<0.0005		
3/3/2021							<0.0005	
3/4/2021	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
9/13/2021					0.0011	<0.0005		
9/14/2021	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
3/1/2022		<0.0005	<0.0005					<0.0005
3/2/2022				<0.0005				
3/3/2022	0.00025				0.0012 (J)	<0.0005	<0.0005	
9/20/2022			<0.0005					<0.0005
9/21/2022	<0.0005	<0.0005		<0.0005	0.0011 (J)	<0.0005	0.00029 (J)	
2/28/2023					0.00135 (J)		0.000279 (J)	
3/1/2023	<0.0005							
3/2/2023		<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
9/12/2023		<0.0005			0.00137	<0.0005		
9/13/2023	<0.0005			<0.0005			0.000249 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.0005					<0.0005
3/19/2024					0.00145		<0.0005	
3/20/2024	0.000208 (J)					<0.0005		
3/21/2024		<0.0005	<0.0005	<0.0005				<0.0005
9/10/2024	0.000321 (J)				0.00137		<0.0005	
9/11/2024		<0.0005		<0.0005		<0.0005		<0.0005
9/12/2024			<0.0005					
3/17/2025					0.00148	<0.0005		
3/18/2025							0.000228 (J)	<0.0005
3/19/2025		<0.0005	<0.0005	<0.0005				
3/20/2025	0.000323 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0325 (J)				0.0972 (J)			
11/30/2016	0.0334 (J)				0.0964			
2/15/2017	0.254				0.398			
5/31/2017		0.161	0.0521					
6/1/2017	0.0564				0.0776			
6/2/2017				0.0495				
8/2/2017		0.158	0.0392 (J)	0.0333 (J)				
8/15/2017			0.0448					
8/16/2017	0.0435	0.148						
8/17/2017				0.0593	0.0853			
4/4/2018			0.046	0.065				
4/5/2018		0.13						
5/8/2018			0.048	0.062				
5/9/2018		0.12						
6/19/2018	0.04 (J)	0.13	0.04	0.064				
6/20/2018					0.079			
9/25/2018			0.043					
9/26/2018	0.038 (J)	0.1		0.06	0.072			
11/6/2018			0.046					
11/7/2018	0.037 (J)	0.1		0.062 (J)	0.074			
3/25/2019	0.038 (J)	0.091	0.03 (J)	0.057	0.067			
10/15/2019				0.046				
10/16/2019	0.036 (J)	0.085	0.032 (J)		0.051			
11/7/2019						0.27	0.84	1.1
11/18/2019						0.29 (J)		
11/19/2019							0.83	1.3
12/4/2019							0.68	0.81
12/5/2019						0.23		
12/17/2019							0.57	
12/18/2019						0.23		0.77
1/8/2020							0.73	0.9
1/9/2020						0.2		
1/21/2020						0.24 (J)	0.75	0.94
2/4/2020						0.24 (J)	0.79 (J)	0.96 (J)
2/13/2020						0.22	0.74	0.88
3/26/2020	0.064 (J)							
3/27/2020		0.17 (J)	0.058 (J)	0.076 (J)	0.088 (J)	0.24 (J)	0.96	0.94
10/12/2020			<2.5			0.24 (J)		
10/13/2020	<2.5	<2.5		<2.5	<0.5		0.73	1.1
3/2/2021				<2.5				
3/3/2021	<2.5	<2.5	<2.5		<0.5	0.21 (J)	0.79 (J)	0.91 (J)
9/14/2021	0.079 (J)	0.093 (J)	0.06 (J)	0.068 (J)	0.071 (J)	0.2 (J)	1.2	0.91 (J)
3/1/2022							0.41 (J)	0.87 (J)
3/2/2022	0.048 (J)	0.086	0.038 (J)	0.054		0.23 (J)		
3/3/2022					0.057			
9/20/2022						0.18 (J)	0.77	0.9
9/21/2022	0.35 (J)	0.23 (J)	0.17 (J)	0.14 (J)	0.12 (J)			
2/28/2023						0.185	0.707	0.723
3/1/2023	0.091	0.115	0.0461		0.0669			
3/2/2023				0.0416				
9/12/2023	0.101			0.0393	0.0613			
9/13/2023			0.0783				1.2	1.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		0.102				0.229		
3/19/2024		0.0924				0.185	0.704	
3/20/2024	0.0784		0.0443	0.0531				
3/21/2024					0.0603			0.864
9/10/2024			0.0483					
9/11/2024	0.0753	0.0875		0.035	0.0517	0.172	0.61	0.841
3/18/2025	0.0642		0.0522					
3/19/2025						0.175	0.684	0.751
3/20/2025		0.0922		0.0644	0.0594			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.18	0.726		
8/31/2016		0.56	0.632	0.863				
10/25/2016							1.73	
11/30/2016		0.529	0.637	0.804	1.3	0.565	2.12	
2/15/2017					1.33	0.647	2.14	
2/16/2017		0.539	0.698	0.815				
5/31/2017					1.38	0.503	2.24	
6/1/2017	0.0608							
6/2/2017		0.555	0.674	0.891				
8/2/2017	0.137							
8/15/2017					1.14		2.1	
8/16/2017						0.539		
8/17/2017	0.128	0.516	0.7	0.922				
4/4/2018	0.1							
5/8/2018	0.074							
6/19/2018					1.2	0.76	1.7	
6/20/2018	0.045	0.51	0.69					
6/21/2018				0.99				
9/25/2018					1	0.61		
9/26/2018							1.3	
9/27/2018	0.06	0.47	0.62	0.88				
11/6/2018	0.06			1.1		0.75	1.8	
11/7/2018		0.51	0.86		1.4			
3/6/2019			1.5					
3/24/2019		0.44	1.1	1.2	1	0.95	1.4	
3/25/2019	0.058							
10/15/2019	0.068				1.1	1		
10/16/2019		0.49					1.6	
10/17/2019			1.3	1.1				
11/20/2019		0.53		1.3				
11/21/2019						1	1.5	
3/27/2020					1.5	1.3	1.8	
3/28/2020	0.067 (J)	0.28 (J)	0.95	0.79				
6/16/2020			2	1.7				2.1
10/12/2020					1.3			
10/13/2020	<0.5					1.1	1.8	
10/14/2020			1.5	1.8		1.2		
10/15/2020		0.61						2.1
1/4/2021		0.99						
3/2/2021					1.4 (J)	1.4 (J)		
3/3/2021							1.7 (J)	
3/4/2021	0.11 (J)	0.4 (J)	1.4 (J)	1.6 (J)				2.2 (J)
7/1/2021						0.26 (J)		
9/13/2021					1.4	1.2		
9/14/2021	0.07 (J)	0.95 (J)	1.1	1.5			2.1	2
3/1/2022		0.75 (J)	1.7					1.6 (J)
3/2/2022				1.3				
3/3/2022	0.053				1.2	0.89 (J)	1.4	
9/20/2022			1.1					1.7
9/21/2022	0.19 (J)	0.61		1.3	1.3	1	1.8	
2/28/2023					1.23		1.78	
3/1/2023	0.108							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/2/2023		0.511	0.961	1.25		0.738		1.82
9/12/2023		0.42			1.42	0.657		
9/13/2023	0.047			1.21			1.97	
9/14/2023			0.807					1.61
3/19/2024					1.33		1.73	
3/20/2024	0.116					0.474		
3/21/2024		0.491	0.772	1.05				1.84
9/10/2024	0.131				1.31		1.65	
9/11/2024		0.463		0.888		0.415		1.52
9/12/2024			0.745					
3/17/2025					1.38	0.341		
3/18/2025							1.64	1.44
3/19/2025		0.607	0.822	0.911				
3/20/2025	0.0876							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		<0.001	<0.001	<0.001				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.001	<0.001			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			0.0002 (J)					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.00034 (J)
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001		
3/3/2022					<0.001			
9/20/2022						0.00078 (J)	0.0083 (O)	0.0043
9/21/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/28/2023						<0.001	<0.001	<0.001
3/1/2023	<0.001	<0.001	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	<0.001			
9/13/2023			<0.001				<0.001	<0.001
9/14/2023		<0.001				<0.001		
3/19/2024		<0.001				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.001
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.001
3/20/2025		<0.001		<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	<0.001		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					<0.001	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					<0.001		<0.001	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	<0.001	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.001	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	<0.001			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	<0.001				<0.001		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	<0.001				<0.001	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	<0.001	<0.001	<0.001	<0.001				
9/13/2021					<0.001	<0.001		
9/14/2021	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.00043				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	<0.001	<0.001		0.0002 (J)	<0.001	<0.001	<0.001	
2/28/2023					<0.001		<0.001	
3/1/2023	<0.001							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			<0.001	<0.001		
9/13/2023	<0.001			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					<0.001		<0.001	
3/20/2024	<0.001					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	<0.001				<0.001		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	<0.001							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	7.3				4.02			
11/30/2016	10.8				4.87			
2/15/2017	14.3				6.61			
5/31/2017		5.9	18.6					
6/1/2017	12.7 (J)				6.42			
6/2/2017				2.77				
8/2/2017		4.69	18.5	1.27				
8/15/2017			4.09					
8/16/2017	8.7	5.25						
8/17/2017				5.53	5.62			
4/4/2018			<25	6.5				
4/5/2018		5						
5/8/2018			18.4 (J)	6.7				
5/9/2018		4.7						
6/19/2018	11.6 (J)	4.8	4.3	7.4				
6/20/2018					5.7			
6/28/2018	13							
9/25/2018			6.2					
9/26/2018	12.8 (J)	4.6		8.5 (J)	5.3			
11/6/2018			1.8					
11/7/2018	11.9	4.6		9.8	5.3			
3/25/2019	12.6 (J)	4.7	2.5	7.8	5.7			
10/15/2019				6.7				
10/16/2019	13.6	4.9	2.2		4.8			
11/7/2019						46.2	158	163
11/18/2019						41.8		
11/19/2019							152	169
12/4/2019							142	140
12/5/2019						40.5		
12/17/2019							136	
12/18/2019						42		145
1/8/2020							147	157
1/9/2020						37.1		
1/21/2020						40.1	167	152
2/4/2020						36.2	142	139
2/13/2020						38.9	148	146
3/26/2020	10.1							
3/27/2020		4.9	3.3	5.9	5.4	23.2	122	113
10/12/2020			2.8			19.1		
10/13/2020	9.8	3.8		0.83	5.7		125	128
3/2/2021				1.4				
3/3/2021	14	4	2.1		11.2	26	123	110
9/14/2021	9.6	4.2	14	6.7	6.5	18.8	93.6	61.1
3/1/2022							35.5	99.8
3/2/2022	8.2	4.1	6.8	7.2		22.3		
3/3/2022					5.4			
9/20/2022						20	150	100
9/21/2022	9.2	4.3	7.6	0.83	4.6			
2/28/2023						22.5	150	104
3/1/2023	7.87	5.26	6.53		4.74			
3/2/2023				1.41				
9/12/2023	10.1			0.953	4.48			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			20.7				202	108
9/14/2023		6.64				21.1		
3/19/2024		4.73				19.7	138	
3/20/2024	11.3		9.1	4.88				
3/21/2024					5.32			102
9/10/2024			6.36					
9/11/2024	9.6	5.36		0.928	5.49	15.3	127	87.8
3/18/2025	9.39		3.66					
3/19/2025						17.9	139	92.4
3/20/2025		6.94		4.54	6.41			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					7.05	42.8		
8/31/2016		65	82.8	119				
10/25/2016							69.4	
11/30/2016		71.7	68.7	103	8.69	33.2	83.9	
2/15/2017					8.34	56.1	96.3	
2/16/2017		74	94.8	114				
5/31/2017					8.85	73.6	122	
6/1/2017	3.65							
6/2/2017		120	92.5	179				
8/2/2017	12.4							
8/15/2017					8.05		117	
8/16/2017						99.6		
8/17/2017	8.17	100	126	186				
4/4/2018	6.8							
5/8/2018	5.7							
6/19/2018					8.3	285	136	
6/20/2018	4.3	72.8	121					
6/21/2018				179				
6/28/2018					8.9	294	138	
9/25/2018					6.8	283		
9/26/2018							148	
9/27/2018	16.4 (J)	46.6	95.1	193				
11/6/2018	39.5			219		297	24.7	
11/7/2018		41.8	364		8.5			
3/6/2019			341					
3/24/2019		20.9 (J)	277	243	7.4	338	136	
3/25/2019	20.8 (J)							
10/15/2019	15.5				7.9	321		
10/16/2019		55.2					118	
10/17/2019			309	260				
11/20/2019		55.8		308				
11/21/2019						305	125	
3/27/2020					8.3	286	222	
3/28/2020	15.5	25.8	286	286				
4/23/2020			266					266
6/16/2020			234	254				245
10/12/2020					6.1			
10/13/2020	12.5					40.9	86.4	
10/14/2020			219 (D)	216		177		
10/15/2020		69.1						194
1/4/2021		107						
3/2/2021					6.5	205		
3/3/2021							143	
3/4/2021	15.1	23.4	233	244				257
7/1/2021						231		
9/13/2021					6	165		
9/14/2021	12.5	13.9	299	225			190	273
3/1/2022		48.4	131					303
3/2/2022				198				
3/3/2022	8				4.6	224	84	
6/28/2022			73.5					225
9/20/2022			47					240

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	7.8	28		190	4.7	74	110	
2/28/2023					5.17		94.2	
3/1/2023	7.75							
3/2/2023		25.9	36.1	194		48		234
9/12/2023		61.5			4.98	55.3		
9/13/2023	4.93			136			84.6	
9/14/2023			83.1					158
3/19/2024					4.99		63.2	
3/20/2024	10.1					40.6		
3/21/2024		75.5	66.6	89.1				182
9/10/2024	9.06				4.67		57.2	
9/11/2024		78.5		72.5		41.3		162
9/12/2024			134					
3/17/2025					4.62	171		
3/18/2025							72.2	158
3/19/2025		196	198	98.9				
3/20/2025	6.11							

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	9.7				26			
11/30/2016	19				27			
2/15/2017	21				30			
5/31/2017		39	98					
6/1/2017	12				27			
6/2/2017				11				
8/2/2017		42	57	3.2				
8/15/2017			15					
8/16/2017	14	41						
8/17/2017				12	32			
4/4/2018			69	13.4				
4/5/2018		40.2						
5/8/2018			72.3	13.2				
5/9/2018		40.6						
6/19/2018	24.4	37.7	17.3	13.7				
6/20/2018					30			
9/25/2018			31.3					
9/26/2018	23.4	33.4		18.5	28.4			
11/6/2018			9.8					
11/7/2018	21.8	30.7		20.2	25.1			
3/25/2019	19.4	33.5	12.9	19.7	21.8			
10/15/2019				17.1				
10/16/2019	21.4	33.1	12.2		20			
11/7/2019						2360	6170	7880
11/18/2019						6970		
11/19/2019							5650	8130
12/4/2019							6100	7410
12/5/2019						2130		
12/17/2019							5660	
12/18/2019						2090		7170
1/8/2020							5070	6480
1/9/2020						1750		
1/21/2020						1630	5010	6000
2/4/2020						1760	5030	5700
2/13/2020						1850	6140	7060
3/26/2020	23							
3/27/2020		32.9	14.5	14.1	23.6	1450	6870	7110
10/12/2020			13.9			1340		
10/13/2020	13.5	25.7		3.8	23.3		5260	5980
3/2/2021				4.2				
3/3/2021	13.6	20.5	9.4		27.6	1230	5170	5500
9/14/2021	16.7	21.8	62.8	13.6	30	1020	7250	5100
3/1/2022							1870	4900
3/2/2022	13.4	20.6	28.4	14.3		1420		
3/3/2022					26.5			
9/20/2022						1200	6200	5700
9/21/2022	17	23	32	3.3	17			
2/28/2023						1250	5760	7930
3/1/2023	14.9	21.8	17.7		14.2			
3/2/2023				4.88				
9/12/2023	10.7			3.49	13.3			
9/13/2023			98.5				8600	5250

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		21.1				1190		
3/19/2024		20				1100	5460	
3/20/2024	10.8		32.1	13.5				
3/21/2024					11.5			4980
9/10/2024			11.2					
9/11/2024	9.34	16.4		3.34	9.65	856	4880	4420
3/18/2025	11.9		4.51					
3/19/2025						992	5330	4320
3/20/2025		13.1		10.6	8.86			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					800	450		
8/31/2016		1800	2200	2600				
10/25/2016							1300	
11/30/2016		1100	2100	2800	760	310	400	
2/15/2017					740	490	2000	
2/16/2017		2100	2500	3100				
5/31/2017					740	820	2500	
6/1/2017	22							
6/2/2017		3100	2500	4600				
8/2/2017	230							
8/15/2017					750		2500	
8/16/2017						1500		
8/17/2017	210	2600	2700	4600				
4/4/2018	156							
5/8/2018	140							
6/19/2018					760	5180	3050	
6/20/2018	27.5	1800	3100					
6/21/2018				3920				
9/25/2018					752	7220		
9/26/2018							3965 (D)	
9/27/2018	101	1300	2510	5660				
11/6/2018	107			6520		6020	2230	
11/7/2018		1180	8860		665			
3/6/2019			11700					
3/24/2019		717	6470	8720	744	7400	3960	
3/25/2019	78.5							
10/15/2019	46				744	9050		
10/16/2019		1390					4260	
10/17/2019			9930	8210				
11/20/2019		1480		9810				
11/21/2019						8330	3890	
3/27/2020					675	7680	4770	
3/28/2020	71.4	693	9190	9070				
4/23/2020			7390					7500
6/16/2020			7760	7580				7780
10/12/2020					552			
10/13/2020	54.4					6230	3980	
10/14/2020			6780 (D)	8170		6230		
10/15/2020		1660						<1
1/4/2021		2460						
3/2/2021					459	5680		
3/3/2021							3920	
3/4/2021	69.6	652	6310	7540				8280
7/1/2021						5960		
9/13/2021					433	5010		
9/14/2021	28.5	3940	5360	6300			4090	7610
3/1/2022		1680	4150					6750
3/2/2022				5630				
3/3/2022	12.2				394	5040	3540	
6/28/2022			3520					9640
9/20/2022			2800					7400
9/21/2022	47	1100		6400	400	3300	3300	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					518		2770	
3/1/2023	45.6							
3/2/2023		853	1470	5450		1810		6860
9/12/2023		1330			326	1180		
9/13/2023	10.4			3690			2660	
9/14/2023			2220					5380
3/19/2024					361		3130	
3/20/2024	82.3					1390		
3/21/2024		1830	2120	3240				5440
9/10/2024	100				297		3080	
9/11/2024		1800		2440		1320		4570
9/12/2024			3240					
3/17/2025					311	3240		
3/18/2025							2900	4080
3/19/2025		3790	4590	2720				
3/20/2025	45.3							

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				0.001 (J)			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	<0.01					
6/1/2017	<0.01				0.0004 (J)			
6/2/2017				0.0019 (J)				
8/2/2017		<0.01	<0.01	0.0017 (J)				
8/15/2017			0.0006 (J)					
8/16/2017	<0.01	<0.01						
8/17/2017				0.0027 (J)	0.0005 (J)			
4/4/2018			<0.01	<0.01				
4/5/2018		<0.01						
5/8/2018			<0.01	0.0029 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	<0.01	0.002 (J)				
6/20/2018					<0.01			
9/25/2018			<0.01					
9/26/2018	<0.01	<0.01		0.003 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
3/25/2019			<0.01					
8/27/2019	0.00079 (J)			0.0026 (J)	0.00043 (J)			
8/28/2019		0.0035 (J)	0.00053 (J)					
10/15/2019				0.0026 (J)				
10/16/2019	<0.01	<0.01	0.00072 (J)		<0.01			
11/7/2019						0.0038 (J)	0.005 (J)	0.0083 (J)
11/18/2019						0.0046 (J)		
11/19/2019							0.0059 (J)	0.0096 (J)
12/4/2019							0.0073 (J)	0.0099 (J)
12/5/2019						0.0046 (J)		
12/17/2019							0.009 (J)	
12/18/2019						0.0045 (J)		0.011 (J)
1/8/2020							0.0077 (J)	0.0092 (J)
1/9/2020						0.004 (J)		
1/21/2020						0.0036 (J)	0.007 (J)	0.009 (J)
2/4/2020						<0.01	0.0057 (J)	0.0078 (J)
2/13/2020						0.0036 (J)	0.0063 (J)	0.0091 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0095 (J)
9/14/2021	<0.01	0.0056	<0.01	0.0027 (J)	<0.01	<0.01	<0.01	<0.01
3/1/2022							<0.01	<0.01
3/2/2022	<0.01	<0.01	0.00094 (J)	0.0029		<0.01		
3/3/2022					<0.01			
9/20/2022						0.0021 (J)	<0.01	<0.01
9/21/2022	0.0014 (J)	<0.01	0.0015 (J)	0.002 (J)	0.0015 (J)			
2/28/2023						<0.01	0.00575 (J)	0.00573 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			
9/13/2023			<0.01				0.00386 (J)	0.00673 (J)
9/14/2023		<0.01				<0.01		
3/19/2024		<0.01				<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			<0.01
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.00601 (J)	0.00551 (J)
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.00559 (J)	0.00559 (J)
3/20/2025		<0.01		<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0054 (J)	0.0026 (J)		
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)				
10/25/2016							0.016	
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)	
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137	
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)				
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109	
6/1/2017	0.0008 (J)							
6/2/2017		<0.01	<0.01	0.0023 (J)				
8/2/2017	0.0012 (J)							
8/15/2017					0.005 (J)		0.0117	
8/16/2017						0.0019 (J)		
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)				
4/4/2018	<0.01							
5/8/2018	<0.01							
6/19/2018					0.0047 (J)	<0.01	0.013 (J)	
6/20/2018	<0.01	<0.01	<0.01					
6/21/2018				<0.01				
9/25/2018					<0.01	<0.01		
9/26/2018							0.0092 (J)	
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)				
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.01	
11/7/2018		<0.01	<0.01		<0.01			
3/6/2019			<0.01					
8/26/2019						0.00071 (J)		
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)	
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)				
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)		
10/16/2019		0.00057 (J)					0.0063 (J)	
10/17/2019			0.0015 (J)	0.0019 (J)				
3/27/2020					<0.01	<0.01	<0.01	
3/28/2020	<0.01	<0.01	<0.01	<0.01				
9/13/2021					<0.01	<0.01		
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.01	<0.01
3/1/2022		<0.01	<0.01					<0.01
3/2/2022				<0.01				
3/3/2022	0.00085 (J)				<0.01	<0.01	<0.01	
9/20/2022			<0.01					<0.01
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)	
2/28/2023					0.00663 (J)		0.00623 (J)	
3/1/2023	<0.01							
3/2/2023		<0.01	<0.01	<0.01		<0.01		<0.01
9/12/2023		<0.01			0.00703 (J)	<0.01		
9/13/2023	<0.01			<0.01			0.00608 (J)	
9/14/2023			<0.01					<0.01
3/19/2024					0.00689 (J)		0.00466 (J)	
3/20/2024	<0.01					<0.01		
3/21/2024		<0.01	<0.01	<0.01				<0.01
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)	
9/11/2024		<0.01		<0.01		<0.01		<0.01
9/12/2024			<0.01					
3/17/2025					0.00739 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00481 (J)	<0.01
3/19/2025		<0.01	<0.01	<0.01				
3/20/2025	<0.01							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		0.0005 (J)	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		0.0005 (J)	0.0006 (J)	<0.001				
8/15/2017			0.0004 (J)					
8/16/2017	<0.001	0.0005 (J)						
8/17/2017				<0.001	0.0004 (J)			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	0.0003 (J)			
8/28/2019		0.00042 (J)	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	0.00037 (J)	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.026
11/18/2019						<0.001		
11/19/2019							<0.001	0.022 (J)
12/4/2019							<0.001	0.022
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		0.031
1/8/2020							<0.001	0.035
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	0.031
2/4/2020						<0.001	<0.001	0.031 (J)
2/13/2020						<0.001	<0.001	0.031
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.036
10/12/2020			<0.001			<0.001		
10/13/2020	<0.001	<0.001		<0.001	<0.001		<0.001	0.032
3/2/2021				<0.001				
3/3/2021	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	0.033
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
3/1/2022							<0.001	0.031
3/2/2022	<0.001	0.00035 (J)	0.00029 (J)	7.7E-05 (J)		<0.001		
3/3/2022					0.00035 (J)			
9/20/2022						<0.001	<0.001	0.03
9/21/2022	<0.001	0.00032 (J)	<0.001	<0.001	0.00024 (J)			
2/28/2023						<0.001	<0.001	0.0252 (J)
3/1/2023	<0.001	0.000372 (J)	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	0.000301 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.001				<0.001	0.0241
9/14/2023		<0.001				<0.001		
3/19/2024		0.000301 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				
3/21/2024					<0.001			0.0222
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	0.0181
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	0.0204
3/20/2025		<0.001		<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	0.0006 (J)		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					0.0005 (J)	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					0.0005 (J)		0.0004 (J)	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					0.00053 (J)	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	0.0078				0.0007 (J)		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	0.0085				0.00054 (J)	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
11/20/2019	0.009							
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001				
10/12/2020					<0.001			
10/13/2020	0.0063					<0.001	<0.001	
10/14/2020			<0.001	<0.001				
10/15/2020		0.0019 (J)						<0.001
1/4/2021		<0.001						
3/2/2021					<0.001	<0.001		
3/3/2021							<0.001	
3/4/2021	0.006	<0.001	<0.001	<0.001				<0.001
9/13/2021					<0.001	<0.001		
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.0049				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)	
2/28/2023					0.00052 (J)		<0.001	
3/1/2023	0.00256 (J)							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			0.000429 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/13/2023	0.00341			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					0.000452 (J)		<0.001	
3/20/2024	0.00291					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	0.00238				0.000453 (J)		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					0.000481 (J)	<0.001		
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	0.00268							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.929				0.977			
11/30/2016	5.64				0.994			
2/15/2017	1.41				1.65			
5/31/2017		1.17	1.2					
6/1/2017	1.51				1.22			
6/2/2017				1.47				
8/2/2017		0.704 (U)	1.26	1.99				
8/15/2017			0.511 (U)					
8/16/2017	1.01 (U)	1.11 (U)						
8/17/2017				2.03	1.71			
4/4/2018			1.04	1.96				
4/5/2018		0.868						
5/8/2018			1.95	1.69				
5/9/2018		0.888						
6/19/2018	1.23	0.483 (U)	0.785 (U)	1.83				
6/20/2018					1.78			
9/25/2018			1.15					
9/26/2018	0.72 (U)	0.73 (U)		0.637 (U)	1.56			
11/6/2018			1.1					
11/7/2018	0.616 (U)	0.429 (U)		0.894 (U)	0.651 (U)			
8/27/2019	1.2 (U)			2.33	1.03 (U)			
8/28/2019		0.679 (U)	0.434 (U)					
10/15/2019				0.979 (U)				
10/16/2019	1.4 (U)	0.422 (U)	0.923 (U)		1.86			
11/7/2019						14.8	17.7	38.2
11/18/2019						13.9		
11/19/2019							18.9	43.1
12/4/2019							18.6	45.1
12/5/2019						14.2		
12/17/2019							21.8	
12/18/2019						17		55.8
1/8/2020							16.9	46.5
1/9/2020						12.3		
1/21/2020						11.7	15.6	37.7
2/4/2020						12.7	22.4	47.9
2/13/2020						18.2	31.1	76.3 (O)
3/26/2020	1.15 (U)							
3/27/2020		0.838 (U)	0.609 (U)	1.84	1.51	10.2	22.8	47.2
10/12/2020			2.7			8.83		
10/13/2020	0.855 (U)	0.56 (U)		3.32	1.71		14.1	30.3
4/6/2021	1.01 (U)	0.474 (U)	1.88	1.74	1.81	9.57	20.4	31.5
9/14/2021	1.06 (U)	0.878 (U)	1.37 (U)	1.15 (U)	2.02	8.31	26.2	34.9
3/1/2022							9.65	27.5
3/2/2022	0.379 (U)	0.476 (U)	0.313 (U)	1.48		9.23		
3/3/2022					1.1 (U)			
9/20/2022						9.35	18.2	30.1
9/21/2022	0.863	0.789	0.797	1.23	1.02			
2/28/2023						7.34	12.4	22.6
3/1/2023	1.18 (U)	0.439 (U)	2.35		2.3			
3/2/2023				10.1				
9/12/2023	3.54			3.88	3.18			
9/13/2023			3.14				27.3	34.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		3.14				4.91		
3/19/2024		2.04				6.07	11.8	
3/20/2024	2.7		3.03	3.27				
3/21/2024					1.25 (U)			23.8
9/10/2024			2.49					
9/11/2024	2.61	6.28		4.32	1.89	9.3	15.5	29.4
3/18/2025	1.25 (U)		1.58 (U)					
3/19/2025						7.26	19.2	26.7
3/20/2025		1.16 (U)		1.32 (U)	1.52			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.03 (J)				0.04 (J)			
11/30/2016	0.04 (J)				0.18 (J)			
2/15/2017	0.007 (J)				0.02 (J)			
5/31/2017		0.01 (J)	0.85					
6/1/2017	<0.1				0.005 (J)			
6/2/2017				<0.1				
8/2/2017		0.14 (J)	0.69	0.05 (J)				
8/15/2017			0.29 (J)					
8/16/2017	0.03 (J)	0.13 (J)						
8/17/2017				<0.1	0.04 (J)			
4/4/2018			0.32	<0.1				
4/5/2018		<0.1						
5/8/2018			0.63	<0.1				
5/9/2018		<0.1						
6/19/2018	<0.1	0.065 (J)	0.17 (J)	0.057 (J)				
6/20/2018					0.038 (J)			
9/25/2018			0.15 (J)					
9/26/2018	0.12 (J)	<0.1		<0.1	<0.1			
11/6/2018			<0.1					
11/7/2018	<0.1	<0.1		<0.1	<0.1			
3/25/2019	0.038 (J)	0.039 (J)	0.12 (J)	0.036 (J)	0.041 (J)			
8/27/2019	<0.1			<0.1	<0.1			
8/28/2019		<0.1	0.068 (J)					
10/15/2019				0.14 (J)				
10/16/2019	0.046 (J)	0.044 (J)	0.1 (J)		0.044 (J)			
11/7/2019						0.49	<0.1	1.4
11/18/2019						0.52		
11/19/2019							0.033 (J)	1.2
12/4/2019							0.22 (J)	1.4
12/5/2019						0.5		
12/17/2019							<0.1	
12/18/2019						0.33		1.5
1/8/2020							<0.1	<0.1
1/9/2020						0.12 (J)		
1/21/2020						0.13 (J)	0.11 (J)	0.53
2/4/2020						0.18 (J)	<0.1	<0.1
2/13/2020						0.077 (J)	<0.1	<0.1
3/26/2020	<0.1							
3/27/2020		<0.1	0.066 (J)	<0.1	<0.1	0.06 (J)	<0.1	<0.1
10/12/2020			<0.1			0.34		
10/13/2020	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1
3/2/2021				<0.1				
3/3/2021	<0.1	<0.1	0.082 (J)		<0.1	0.32	<0.1	<0.1
9/14/2021	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022							<0.1	<0.1
3/2/2022	<0.1	<0.1	0.097 (J)	<0.1		<0.1		
3/3/2022					<0.1			
9/20/2022						0.61 (J)	<0.1	4.3 (JO)
9/21/2022	<0.1	<0.1	0.11	<0.1	<0.1			
2/28/2023						0.407 (J)	0.38 (J)	3.32
3/1/2023	<0.1	<0.1	0.101		0.0397 (J)			
3/2/2023				0.0397 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.1			<0.1	<0.1			
9/13/2023			0.362				<0.1	3.98
9/14/2023		<0.1				0.251 (J)		
3/19/2024		<0.1				0.702	1.2 (J)	
3/20/2024	0.0748 (J)		0.206	<0.1				
3/21/2024					0.0585 (J)			3.79
9/10/2024			0.202					
9/11/2024	0.0669 (J)	<0.1		<0.1	<0.1	0.267	0.743 (J)	2.83
3/18/2025	0.0534 (J)		0.0773 (J)					
3/19/2025						0.564	0.831 (J)	2.94
3/20/2025		<0.1		<0.1	<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				0.0002 (J)			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				<0.002			
6/2/2017				<0.002				
8/2/2017		0.0001 (J)	<0.002	0.0001 (J)				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				0.0001 (J)	<0.002			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
3/25/2019			<0.002					
8/27/2019	<0.002			0.00011 (J)	<0.002			
8/28/2019		<0.002	<0.002					
10/15/2019				0.00038 (J)				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	0.00063 (J)	0.0019 (J)
11/18/2019						<0.002		
11/19/2019							<0.002	0.0013 (J)
12/4/2019							5.3E-05 (J)	0.00045 (J)
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		0.00023 (J)
1/8/2020							<0.002	0.00029 (J)
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	0.00033 (J)
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.025 (O)	0.00023 (J)
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2020			<0.002			<0.002		
10/13/2020	<0.002	<0.002		<0.002	<0.002		<0.002	<0.002
3/2/2021				<0.002				
3/3/2021	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					<0.002			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	0.00092 (J)	<0.002			
2/28/2023						<0.002	<0.002	<0.002
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.002			<0.002	0.000563 (J)			
9/13/2023			<0.002				<0.002	0.000678 (J)
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				
3/21/2024					<0.002			<0.002
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.002
3/20/2025		<0.002		<0.002	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0001 (J)	<0.002		
8/31/2016		<0.002	<0.002	<0.002				
10/25/2016							<0.002	
11/30/2016		0.0002 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2017					<0.002	<0.002	<0.002	
2/16/2017		<0.002	<0.002	0.0002 (J)				
5/31/2017					9E-05 (J)	<0.002	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.002	<0.002	<0.002				
8/2/2017	<0.002							
8/15/2017					<0.002		0.0002 (J)	
8/16/2017						8E-05 (J)		
8/17/2017	<0.002	<0.002	<0.002	8E-05 (J)				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.002	<0.002	
6/20/2018	<0.002	<0.002	<0.002					
6/21/2018				<0.002				
9/25/2018					<0.002	<0.002		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.002	<0.002	<0.002				
11/6/2018	<0.002			<0.002		<0.002	<0.002	
11/7/2018		<0.002	<0.002		<0.002			
3/6/2019			<0.002					
8/26/2019						<0.002		
8/27/2019	<0.002				0.00022 (J)		0.00014 (J)	
8/28/2019		<0.002	<0.002	0.0001 (J)				
10/15/2019	<0.002				5.6E-05 (J)	<0.002		
10/16/2019		<0.002					0.00034 (J)	
10/17/2019			0.00012 (J)	<0.002				
3/27/2020					<0.002	<0.002	<0.002	
3/28/2020	<0.002	<0.002	<0.002	<0.002				
10/12/2020					<0.002			
10/13/2020	<0.002					<0.002	<0.002	
10/14/2020			<0.002	<0.002				
10/15/2020		<0.002						<0.002
1/4/2021		<0.002						
3/2/2021					<0.002	<0.002		
3/3/2021							<0.002	
3/4/2021	<0.002	<0.002	<0.002	<0.002				<0.002
9/13/2021					<0.002	<0.002		
9/14/2021	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
3/1/2022		<0.002	<0.002					<0.002
3/2/2022				<0.002				
3/3/2022	<0.002				<0.002	<0.002	<0.002	
9/20/2022			<0.002					<0.002
9/21/2022	<0.002	<0.002		<0.002	0.00083 (J)	<0.002	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.002	<0.002	<0.002		<0.002		<0.002
9/12/2023		<0.002			<0.002	<0.002		
9/13/2023	<0.002			<0.002			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.002					<0.002
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.002		
3/21/2024		<0.002	<0.002	<0.002				<0.002
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.002		<0.002		<0.002		<0.002
9/12/2024			<0.002					
3/17/2025					<0.002	<0.002		
3/18/2025							<0.002	<0.002
3/19/2025		<0.002	<0.002	<0.002				
3/20/2025	<0.002							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				<0.01			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	0.0047 (J)					
6/1/2017	<0.01				<0.01			
6/2/2017				<0.01				
8/2/2017		<0.01	0.0036 (J)	<0.01				
8/15/2017			<0.01					
8/16/2017	<0.01	<0.01						
8/17/2017				<0.01	<0.01			
4/4/2018			0.0041 (J)	0.0015 (J)				
4/5/2018		<0.01						
5/8/2018			0.0052 (J)	0.0014 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	0.0017 (J)	0.0016 (J)				
6/20/2018					<0.01			
9/25/2018			0.0018 (J)					
9/26/2018	<0.01	<0.01		0.0018 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
8/27/2019	<0.01			0.002 (J)	<0.01			
8/28/2019		<0.01	0.00082 (J)					
10/15/2019				0.0016 (J)				
10/16/2019	<0.01	<0.01	<0.01		<0.01			
11/7/2019						0.0055 (J)	0.015 (J)	0.026 (J)
11/18/2019						<0.1 (O)		
11/19/2019							0.02 (J)	0.023 (J)
12/4/2019							0.016 (J)	0.019 (J)
12/5/2019						0.0042 (J)		
12/17/2019							0.018 (J)	
12/18/2019						0.0045 (J)		0.02 (J)
1/8/2020							0.022 (J)	0.024 (J)
1/9/2020						0.0041 (J)		
1/21/2020						<0.15 (O)	0.018 (J)	0.022 (J)
2/4/2020						<0.3 (O)	0.02 (J)	0.024 (J)
2/13/2020						0.004 (J)	0.018 (J)	0.021 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	0.018 (J)	0.024 (J)
10/12/2020			<0.01			<0.01		
10/13/2020	<0.01	<0.01		<0.01	<0.01		0.022 (J)	0.025 (J)
3/2/2021				<0.01				
3/3/2021	<0.01	<0.01	<0.01		<0.01	<0.01	0.019 (J)	0.018 (J)
9/14/2021	<0.01	<0.01	0.0033 (J)	<0.01	<0.01	<0.01	0.011 (J)	0.02 (J)
3/1/2022							<0.01	0.02 (J)
3/2/2022	0.00064 (J)	<0.01	0.0026	0.0017 (J)		<0.01		
3/3/2022					0.00061 (J)			
9/20/2022						<0.01	0.014 (J)	0.029
9/21/2022	<0.01	<0.01	<0.01	<0.01	<0.01			
2/28/2023						0.00327 (J)	0.019 (J)	0.0221 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			0.00978 (J)				0.0415	0.0493
9/14/2023		<0.01				0.00366 (J)		
3/19/2024		<0.01				<0.01	0.0201 (J)	
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			0.0206 (J)
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.02	0.0201
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.0173	0.0182
3/20/2025		<0.01		<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0002				<0.0002			
11/30/2016	<0.0002				<0.0002			
2/15/2017	<0.0002				<0.0002			
5/31/2017		<0.0002	<0.0002					
6/1/2017	<0.0002				<0.0002			
6/2/2017				<0.0002				
8/2/2017		<0.0002	<0.0002	<0.0002				
8/15/2017			<0.0002					
8/16/2017	<0.0002	<0.0002						
8/17/2017				<0.0002	<0.0002			
4/4/2018			<0.0002	<0.0002				
4/5/2018		<0.0002						
5/8/2018			<0.0002	<0.0002				
5/9/2018		<0.0002						
6/19/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/20/2018					<0.0002			
9/25/2018			<0.0002					
9/26/2018	<0.0002	<0.0002		<0.0002	<0.0002			
11/6/2018			0.0007					
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002			
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		<0.0002	<0.0002					
10/15/2019				<0.0002				
10/16/2019	<0.0002	<0.0002	<0.0002		<0.0002			
11/7/2019						<0.0002	<0.0002	<0.0002
11/18/2019						<0.0002		
11/19/2019							<0.0002	<0.0002
12/4/2019							<0.0002	<0.0002
12/5/2019						<0.0002		
12/17/2019							<0.0002	
12/18/2019						<0.0002		<0.0002
1/8/2020							<0.0002	<0.0002
1/9/2020						<0.0002		
1/21/2020						<0.0002	<0.0002	<0.0002
2/4/2020						<0.0002	<0.0002	<0.0002
2/13/2020						<0.0002	<0.0002	<0.0002
3/26/2020	<0.0002							
3/27/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2022							<0.0002	<0.0002
3/2/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
3/3/2022					<0.0002			
9/20/2022						<0.0002	<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/28/2023						<0.0002	<0.0002	<0.0002
3/1/2023	<0.0002	<0.0002	<0.0002		<0.0002			
3/2/2023				<0.0002				
9/12/2023	<0.0002			<0.0002	<0.0002			
9/13/2023			<0.0002				<0.0002	<0.0002
9/14/2023		<0.0002				<0.0002		
3/19/2024		<0.0002				<0.0002	8.7E-05 (J)	
3/20/2024	<0.0002		<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.0002			0.000162 (J)
9/10/2024			<0.0002					
9/11/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/18/2025	<0.0002		<0.0002					
3/19/2025						<0.0002	9.8E-05 (J)	<0.0002
3/20/2025		<0.0002		<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.0002	<0.0002		
8/31/2016		<0.0002	<0.0002	<0.0002				
10/25/2016							<0.0002	
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2017					<0.0002	<0.0002	<0.0002	
2/16/2017		<0.0002	<0.0002	<0.0002				
5/31/2017					<0.0002	<0.0002	<0.0002	
6/1/2017	<0.0002							
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002				
8/2/2017	<0.0002							
8/15/2017					<0.0002		<0.0002	
8/16/2017						<0.0002		
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002				
4/4/2018	<0.0002							
5/8/2018	<0.0002							
6/19/2018					<0.0002	<0.0002	<0.0002	
6/20/2018	<0.0002	<0.0002	<0.0002					
6/21/2018				<0.0002				
9/25/2018					<0.0002	<0.0002		
9/26/2018							<0.0002	
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002				
11/6/2018	0.00071			0.00067		0.00066	0.00064	
11/7/2018		<0.0002	<0.0002		<0.0002			
3/6/2019			<0.0002					
8/26/2019						<0.0002		
8/27/2019	<0.0002				<0.0002		<0.0002	
8/28/2019		<0.0002	<0.0002	<0.0002				
10/15/2019	<0.0002				<0.0002	<0.0002		
10/16/2019		<0.0002					<0.0002	
10/17/2019			<0.0002	<0.0002				
3/27/2020					<0.0002	<0.0002	<0.0002	
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002				
9/13/2021					<0.0002	<0.0002		
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002			<0.0002	<0.0002
3/1/2022		<0.0002	<0.0002					<0.0002
3/2/2022				<0.0002				
3/3/2022	<0.0002				<0.0002	<0.0002	<0.0002	
9/20/2022			<0.0002					<0.0002
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
2/28/2023					<0.0002		<0.0002	
3/1/2023	<0.0002							
3/2/2023		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
9/12/2023		<0.0002			<0.0002	<0.0002		
9/13/2023	<0.0002			<0.0002			<0.0002	
9/14/2023			<0.0002					<0.0002
3/19/2024					<0.0002		<0.0002	
3/20/2024	<0.0002					<0.0002		
3/21/2024		<0.0002	<0.0002	<0.0002				<0.0002
9/10/2024	<0.0002				<0.0002		<0.0002	
9/11/2024		<0.0002		<0.0002		<0.0002		<0.0002
9/12/2024			<0.0002					
3/17/2025					<0.0002	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.0002	<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002				
3/20/2025	<0.0002							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		<0.001	<0.001	<0.001				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.001	<0.001			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	0.002 (J)				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	<0.001
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/14/2021	<0.001	0.0008 (J)	<0.001	0.0009 (J)	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022	<0.001	<0.001	<0.001	0.00078 (J)		<0.001		
3/3/2022					0.00021 (J)			
9/20/2022						<0.001	<0.001	<0.001
9/21/2022	<0.001	<0.001	<0.001	0.00094 (J)	<0.001			
2/28/2023						<0.001	<0.001	<0.001
3/1/2023	0.000258 (J)	<0.001	<0.001		0.000517 (J)			
3/2/2023				0.00133 (J)				
9/12/2023	<0.001			0.00141	0.00023 (J)			
9/13/2023			<0.001				<0.001	<0.001
9/14/2023		<0.001				<0.001		
3/19/2024		0.000259 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	0.000738 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.001
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		0.00123	<0.001	<0.001	<0.001	<0.001
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.001
3/20/2025		<0.001		0.00118	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	<0.001		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					<0.001	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					<0.001		<0.001	
8/16/2017						<0.001		
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.001	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	<0.001			<0.001		<0.001	<0.001	
11/7/2018		<0.001	0.0024 (J)		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	<0.001				<0.001		<0.001	
8/28/2019		<0.001	0.0017 (J)	<0.001				
10/15/2019	<0.001				<0.001	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			0.0017 (J)	<0.001				
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	<0.001	<0.001	<0.001	<0.001				
9/13/2021					<0.001	<0.001		
9/14/2021	<0.001	0.0099 (J)	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.00015 (J)				<0.001	<0.001	<0.001	
9/20/2022			0.0013 (J)					<0.001
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.001	<0.001	<0.001	
2/28/2023					0.000362 (J)		0.000313 (J)	
3/1/2023	<0.001							
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)		<0.001		0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)	<0.001		
9/13/2023	<0.001			0.000847 (J)			0.000217 (J)	
9/14/2023			0.000839 (J)					<0.001
3/19/2024					0.00055 (J)		0.00102 (J)	
3/20/2024	<0.001					<0.001		
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)				<0.001
9/10/2024	<0.001				0.000276 (J)		<0.001	
9/11/2024		0.00113		0.000949 (J)		<0.001		0.000217 (J)
9/12/2024			0.000895 (J)					
3/17/2025					0.00044 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)				
3/20/2025	<0.001							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	5.66				5.18			
11/30/2016	5.36				4.96			
2/15/2017	5.25				5.13			
5/31/2017		5.06	5.29					
6/1/2017	5.59				4.99			
6/2/2017				5.31				
8/2/2017		5	5.19	5.05				
8/15/2017			5.19					
8/16/2017	5.58	4.98						
8/17/2017				5.52	4.68			
4/4/2018			5.19	5.45				
4/5/2018		5.02						
5/8/2018			5.3	5.54				
5/9/2018		4.96						
6/19/2018	5.51	5.02	5.15	5.6				
6/20/2018					4.77			
9/25/2018			5.13					
9/26/2018	5.32	5.06		5.17	4.65			
11/6/2018			5.08					
11/7/2018	5.72	5.03		5.47	4.99			
3/24/2019				5.4				
3/25/2019	5.75	5.08	5.05	5.4	5.13			
8/27/2019	5.58			5.35	4.88			
8/28/2019		4.99	4.87					
10/15/2019				5.32				
10/16/2019	5.72	4.98	5.05		4.89			
11/7/2019						4.25	5.21	3.79
11/18/2019						4.12		
11/19/2019		5.11					5.15	3.78
11/20/2019	5.77							
12/4/2019							5.28	3.87
12/5/2019						4.17		
12/17/2019							4.96	
12/18/2019						4.2		3.76
1/8/2020							5.04	3.77
1/9/2020						4.19		
1/21/2020						4.28	5.1	3.73
2/4/2020						4.26	5.15	3.72
2/13/2020						4.2	5.07	3.75
3/26/2020	5.45							
3/27/2020		5.12	5.09	5.3	5.12	4.34	5.14	3.81
10/12/2020			5			4.29		
10/13/2020	5.69	5.03		5.02	5.17		5.04	3.72
3/2/2021				5.16				
3/3/2021	5.81	5.06	5.37		5.71	4.37	5.1	3.76
9/14/2021	5.13	5.04	5.5	5.39	4.69	4.28	5.31	3.72
3/1/2022							5.38	3.69
3/2/2022	5.32	5.16	5.11	5.37		4.33		
3/3/2022					4.88			
9/20/2022						4.47	5.14	3.63
9/21/2022	4.95	5.14	4.97	5.23	4.91			
2/28/2023						4.42	5.08	3.7 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023	4.91	5.1 (D)	4.78		4.76			
3/2/2023				4.45				
9/12/2023	4.54			4.4	4.45			
9/13/2023			4.92				5.05	3.67
9/14/2023		5.02				4.17		
3/19/2024		4.62				4.42	4.97	
3/20/2024	5.04		4.18	5.23				
3/21/2024					5.1			3.67
9/10/2024			5.19					
9/11/2024	5.01	5.43		4.99	5.41	4.04	4.61	3.58
3/18/2025	5.14		5.06					
3/19/2025						4.49	5.16	3.83
3/20/2025		5.6		5.34	5.52			

Time Series

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					6.49	7.04		
8/31/2016		6.93	7.21	6.66				
10/25/2016							6.95	
11/30/2016		6.77	7.23	6.69	6.5	7.13	6.95	
2/15/2017					6.51	7.02	6.85	
2/16/2017		6.89	7.27	6.72				
5/31/2017					6.45	7	6.96	
6/1/2017	5.68							
6/2/2017		6.83	7.18	6.53				
8/2/2017	5.2							
8/15/2017					6.41		6.99	
8/16/2017						6.88		
8/17/2017	5.31	6.76	7.15	6.28				
4/4/2018	4.74							
5/8/2018	4.78							
6/19/2018					6.32	6.78	6.91	
6/20/2018	4.79	6.83	7.19					
6/21/2018				6.45				
9/25/2018					6.31	6.75		
9/26/2018							6.8	
9/27/2018	5.14	6.64	7.21	6.48				
11/6/2018	4.9			6.18		6.92	5.99	
11/7/2018		6.6	6.91		6.3			
3/24/2019		6.61	6.98	6.39	6.4	6.59	6.62	
3/25/2019	4.93							
8/26/2019						6.62		
8/27/2019	5.05				6.24		6.23	
8/28/2019		6.69	6.87	6.35				
10/15/2019	4.89				6.19	6.58		
10/16/2019		6.64					6.54	
10/17/2019			6.86	6.4				
11/20/2019	5.03	6.58		6.27				
11/21/2019						6.67	6.44	
3/27/2020					6.33	6.59	6.93	
3/28/2020	5.27	6.6	6.8	6.35				7.11
6/16/2020			6.87	6.33				7.22
10/12/2020					6.35			
10/13/2020	5.25					6.56	6.34	
10/14/2020			6.93	6.32				
10/15/2020		6.52						7.08
1/4/2021		6.66						
3/2/2021					6.34	6.55		
3/3/2021							6.58	
3/4/2021	5.31	6.52	6.94	6.33				7.21
7/1/2021						6.64		
9/13/2021					6.24	6.3		
9/14/2021	5.09	6.67	6.94	6.28			6.77	7.11
3/1/2022		6.87	7.24					7.08
3/2/2022				6.41				
3/3/2022	4.98				6.51	6.49	6.26	
6/28/2022			7.28					7.09
9/20/2022			7.29					7.07

Time Series

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	5.34	6.93		6.27	6.3	6.61	6.72	
2/28/2023					6.28		6.62	
3/1/2023	4.93							
3/2/2023		6.55	7.38	6.28		6.54 (D)		7.12
9/12/2023		6.81			6.43	6.68		
9/13/2023	5.29			6.53			6.55	
9/14/2023			7.3					6.95
3/19/2024					6.55		6.38	
3/20/2024	4.41					6.72		
3/21/2024		6.66	7.02	6.31				7.21
9/10/2024	5.1				6.44		6.11	
9/11/2024		6.94		6.53		6.66		7.18
9/12/2024			7.2					
3/17/2025					6.49	6.44		
3/18/2025							6.59	7.2
3/19/2025		6.91	7.07	6.61				
3/20/2025	4.97							

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				<0.005			
11/30/2016	0.0011 (J)				0.0011 (J)			
2/15/2017	<0.005				<0.005			
5/31/2017		<0.005	<0.005					
6/1/2017	<0.005				<0.005			
6/2/2017				<0.005				
8/2/2017		<0.005	<0.005	<0.005				
8/15/2017			<0.005					
8/16/2017	<0.005	<0.005						
8/17/2017				<0.005	<0.005			
4/4/2018			<0.005	<0.005				
4/5/2018		<0.005						
5/8/2018			<0.005	0.0016 (J)				
5/9/2018		<0.005						
6/19/2018	<0.005	<0.005	<0.005	0.0022 (J)				
6/20/2018					<0.005			
9/25/2018			<0.005					
9/26/2018	<0.005	<0.005		0.0015 (J)	<0.005			
11/6/2018			<0.005					
11/7/2018	<0.005	<0.005		<0.005	<0.005			
3/25/2019			<0.005					
8/27/2019	<0.005			0.0018 (J)	<0.005			
8/28/2019		<0.005	<0.005					
10/15/2019				<0.005				
10/16/2019	<0.005	<0.005	<0.005		<0.005			
11/7/2019						0.036	0.063	0.12
11/18/2019						<0.1		
11/19/2019							0.039 (J)	0.047 (J)
12/4/2019							0.12	0.11
12/5/2019						0.032		
12/17/2019							0.031 (J)	
12/18/2019						0.01		0.032 (J)
1/8/2020							0.066	0.044 (J)
1/9/2020						0.01		
1/21/2020						0.023 (J)	0.13	0.089
2/4/2020						0.017 (J)	0.065 (J)	0.049 (J)
2/13/2020						0.015	0.15	0.11
3/26/2020	<0.005							
3/27/2020		<0.005	<0.005	<0.005	<0.005	0.0034 (J)	0.013	0.012
10/12/2020			<0.005			<0.005		
10/13/2020	<0.005	<0.005		<0.005	<0.005		0.0076 (J)	0.0056 (J)
3/2/2021				<0.005				
3/3/2021	<0.005	<0.005	<0.005		<0.005	0.0012 (J)	0.013 (J)	0.0094 (J)
9/14/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0018 (J)
3/1/2022							<0.04	0.0058 (J)
3/2/2022	<0.005	<0.005	0.00022 (J)	0.00028 (J)		<0.005		
3/3/2022					<0.005			
9/20/2022						<0.005	0.0046 (J)	0.0027 (J)
9/21/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/28/2023						0.00583 (J)	0.034 (J)	0.0225 (J)
3/1/2023	<0.005	<0.005	<0.005		<0.005			
3/2/2023				<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.005			<0.005	<0.005			
9/13/2023			<0.005				0.0237	0.0182
9/14/2023		<0.005				0.00948		
3/19/2024		<0.005				0.00456 (J)	0.0492	
3/20/2024	<0.005		<0.005	<0.005				
3/21/2024					<0.005			0.0249 (J)
9/10/2024			<0.005					
9/11/2024	<0.005	<0.005		<0.005	<0.005	0.0044 (J)	0.0469	0.0212
3/18/2025	<0.005		<0.005					
3/19/2025						0.0056	0.0481	0.0279
3/20/2025		<0.005		<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.005		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.005	0.0023 (J)	<0.005	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.005	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.005	<0.005	<0.005				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.005	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.005	<0.005	
6/20/2018	<0.005	<0.005	<0.005					
6/21/2018				<0.005				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.005	<0.005	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.005	
11/7/2018		<0.005	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.005	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.005					<0.005	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.005	<0.005	
3/28/2020	<0.005	<0.005	<0.005	<0.005				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.005	<0.005	
10/14/2020			<0.005	<0.005				
10/15/2020		0.0028 (J)						<0.005
1/4/2021		<0.005						
3/2/2021					<0.005	<0.005		
3/3/2021							<0.005	
3/4/2021	0.00038 (J)	<0.005	<0.005	<0.005				<0.005
9/13/2021					<0.005	<0.005		
9/14/2021	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
3/1/2022		<0.005	<0.005					<0.005
3/2/2022				<0.005				
3/3/2022	0.00012 (J)				<0.005	<0.005	<0.005	
9/20/2022			<0.005					<0.005
9/21/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.005	<0.005	0.00238 (J)		<0.005		0.00205 (J)
9/12/2023		<0.005			<0.005	<0.005		
9/13/2023	<0.005			<0.005			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.005					<0.005
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.005		
3/21/2024		<0.005	<0.005	<0.005				<0.005
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		<0.005		<0.005		<0.005		0.00176 (J)
9/12/2024			<0.005					
3/17/2025					<0.005	<0.005		
3/18/2025							<0.005	<0.005
3/19/2025		<0.005	<0.005	0.00157 (J)				
3/20/2025	<0.005							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	17				24			
11/30/2016	33				26			
2/15/2017	83				30			
5/31/2017		46	40					
6/1/2017	51				24			
6/2/2017				13				
8/2/2017		43	34	14				
8/15/2017			24					
8/16/2017	36	41						
8/17/2017				14	26			
4/4/2018			33.9	13.4				
4/5/2018		33.4						
5/8/2018			35.7	14.8				
5/9/2018		36						
6/19/2018	50.3	35.5	23.7	15.5				
6/20/2018					31.2			
9/25/2018			25.6					
9/26/2018	54.1	39.6		23	36.8			
11/6/2018			25.2					
11/7/2018	45.6	35.8		22.2	35			
3/25/2019	43	34.2	24.9	22.4	40.1			
10/15/2019				17.9				
10/16/2019	31.9	24.4	17.4		28.5			
11/7/2019						379	832	1010
11/18/2019						737		
11/19/2019							795	1140
12/4/2019							810	1020
12/5/2019						351		
12/17/2019							535	
12/18/2019						274		444 (J)
1/8/2020							603	747
1/9/2020						254		
1/21/2020						254	611	798
2/4/2020						432	599	1120
2/13/2020						300	761	833
3/26/2020	36.2							
3/27/2020		28.6	23.4	14.6	31.2	219	836	700
10/12/2020			19.3			191		
10/13/2020	32.3	27.6		7.6	26.8		609	638
3/2/2021				8				
3/3/2021	33.8	27.6	19.9		30.5	171	708	743
9/14/2021	34.2	30.4	33.1	16.7	24.4	134	995	659
3/1/2022							158	543
3/2/2022	30.8	25.7	19.5	16		186		
3/3/2022					20.4			
9/20/2022						160	740	750
9/21/2022	39	29	23	6.3	24			
2/28/2023						186	820	950
3/1/2023	45.3	27.4	21.4		25.8			
3/2/2023				8.12				
9/12/2023	47.5			6.48	25.2			
9/13/2023			42				1300	832

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		28.8				165		
3/19/2024		28				167	810	
3/20/2024	45.4		34.5	12.3				
3/21/2024					29.4			1190
9/10/2024			24.3					
9/11/2024	42.1	26.2		5.75	23.2	149	781	852
3/18/2025	30.4		26					
3/19/2025						179	843	920
3/20/2025		24.3		11.5	21.9			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					4.3	6.4		
8/31/2016		37	21	290				
10/25/2016							84	
11/30/2016		63	19	240	7.6	4.5	52	
2/15/2017					3	37	190	
2/16/2017		90	22	220				
5/31/2017					2.5	61	260	
6/1/2017	42							
6/2/2017		210	28	500				
8/2/2017	120							
8/15/2017					3.2		210	
8/16/2017						130		
8/17/2017	110	80	69	510				
4/4/2018	70.6							
5/8/2018	61.4							
6/19/2018					1.6	498	218	
6/20/2018	25.3	46 (J)	33					
6/21/2018				481				
9/25/2018					1	790		
9/26/2018							333 (D)	
9/27/2018	63.4	58.5 (J)	29.4	777				
11/6/2018	136			926		875	182	
11/7/2018		41.3 (J)	734		0.41 (J)			
3/6/2019			1220 (J)					
3/24/2019		131	413	1070	1.5	1170	413	
3/25/2019	137							
10/15/2019	105				0.54 (J)	<1		
10/16/2019		252					453	
10/17/2019			507	1230				
11/20/2019		132		1550				
11/21/2019						1070	428	
3/27/2020					<5	899	504	
3/28/2020	86.6	63.8	701	1090				
4/23/2020			552					936
6/16/2020			663	961				970
10/12/2020					<5			
10/13/2020	92.3					695	378	
10/14/2020			531 (D)	938		682		
10/15/2020		147						1060
1/4/2021		262						
3/2/2021					1.2	677		
3/3/2021							420	
3/4/2021	99.1	82.2	596	982				1060
7/1/2021						693		
9/13/2021					<5	680		
9/14/2021	96.2	459	490	819			460	971
3/1/2022		143	440					755
3/2/2022				702				
3/3/2022	50.6				<5	754	324	
6/28/2022			213					553
9/20/2022			320					820
9/21/2022	52	100		660	<5	270	330	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.33		334	
3/1/2023	44.2							
3/2/2023		84.2	157	640		252		859
9/12/2023		139			1.18	160		
9/13/2023	27.1			620			300	
9/14/2023			263					767
3/19/2024					1.7		312	
3/20/2024	73.7					207		
3/21/2024		189	189	360				799
9/10/2024	103				0.462		323	
9/11/2024		148		296		180		752
9/12/2024			271					
3/17/2025					1.83	443		
3/18/2025							363	635
3/19/2025		399	549	404				
3/20/2025	41.8							

Time Series

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	86				99			
11/30/2016	131				111			
2/15/2017	212				170			
5/31/2017		123	257					
6/1/2017	103				98			
6/2/2017				69				
8/2/2017		136	183	35				
8/15/2017			90					
8/16/2017	65	124						
8/17/2017				51	84			
4/4/2018			197	90				
4/5/2018		128						
5/8/2018			225	89				
5/9/2018		127						
6/19/2018	142	143	112	110				
6/20/2018					123			
9/25/2018			137					
9/26/2018	133	132		124	117			
11/6/2018			89					
11/7/2018	121	134		125	120			
3/25/2019	116	111	74	98	101			
10/15/2019				107				
10/16/2019	104	96	82		95			
11/7/2019						4140	10900	13500
11/18/2019						4030		
11/19/2019							10000	13300
12/4/2019							11000	13200
12/5/2019						3840		
12/17/2019							9860	
12/18/2019						3880		12500
1/8/2020							9760	12300
1/9/2020						3520		
1/21/2020						3280	10100	12000
2/4/2020						3220	10600	12300
2/13/2020						3580	10900	12400
3/26/2020	114							
3/27/2020		119	87	110	110	3090	14300	14600
10/12/2020			94			2920		
10/13/2020	113	118		63	115		6600	13900
3/2/2021				40				
3/3/2021	99	84	66		122	2620	11000	11400
9/14/2021	66	76	191	96	<25	2190	14600	10300
3/1/2022							4050	10500
3/2/2022	97	94	124	103		3100		
3/3/2022					104			
9/20/2022						2000	10000	8600
9/21/2022	100	90	110	38	78			
2/28/2023						2090	10400	8720
3/1/2023	78	73	67		56			
3/2/2023				35				
9/12/2023	80			20	42			
9/13/2023			274				15500	10300

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		76				2040		
3/19/2024		50				1960	9800	
3/20/2024	84		137	65				
3/21/2024					51			7330
9/10/2024			79					
9/11/2024	70	64		28	54	1530	9180	8630
3/18/2025	86		70					
3/19/2025						1930	10100	9900
3/20/2025		69		63	61			

Time Series

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1910	1310		
8/31/2016		3620	4160	5100				
10/25/2016							2900	
11/30/2016		4030	3950	4680	1910	1050	3970	
2/15/2017					1870	1440	3820	
2/16/2017		4080	4600	5080				
5/31/2017					1920	1740	5050	
6/1/2017	97							
6/2/2017		5560	4470	8000				
8/2/2017	538							
8/15/2017					1840		4820	
8/16/2017						3010		
8/17/2017	445	4620	5450	8320				
4/4/2018	365							
5/8/2018	304							
6/19/2018					1820	8630	5640	
6/20/2018	114	3370	4940					
6/21/2018				7500				
9/25/2018					1760	10700		
9/26/2018							6770 (D)	
9/27/2018	255	2360	4480	10200				
11/6/2018	388			11000		11100	4160	
11/7/2018		2230	15100		1800			
3/6/2019			19000					
3/24/2019		1450	13700	13700	1770	14200	6840	
3/25/2019	327							
10/15/2019	237				1730	15400		
10/16/2019		2860					7740	
10/17/2019			16100	13200				
11/20/2019		2640		16700				
11/21/2019						15800	7720	
3/27/2020					1970	16400	10200	
3/28/2020	284	1470	18800	18300				
6/16/2020			17800	17900				20100
10/12/2020					1560			
10/13/2020	<25					15600	8750	
10/14/2020			15200	18400				
10/15/2020		5100						19300
1/4/2021		7750						
3/2/2021					1430	12000		
3/3/2021							8830	
3/4/2021	285	1700	14200	17100				19000
7/1/2021						11200		
9/13/2021					1450	11400		
9/14/2021	193	8020	11800	13400			8820	16400
3/1/2022		3780	9040					15600
3/2/2022				12600				
3/3/2022	146				1400	11500	8120	
6/28/2022			6140					15400
9/20/2022			3900					13000
9/21/2022	180	2100		9400	1300	7400	6200	
2/28/2023					1290		6810	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	142							
3/2/2023		1710	3120	10500		3280		12300
9/12/2023		2940			1230	2720		
9/13/2023	51			7440			6310	
9/14/2023			4240					10600
3/19/2024					1210		5920	
3/20/2024	255					2480		
3/21/2024		3320	3820	6050				9680
9/10/2024	316				1230		5490	
9/11/2024		3020		4640		2480		8970
9/12/2024			5340					
3/17/2025					1220	6320		
3/18/2025							5200	9000
3/19/2025		7440	8300	5420				
3/20/2025	152							

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				<0.002			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				6E-05 (J)			
6/2/2017				<0.002				
8/2/2017		<0.002	<0.002	<0.002				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				<0.002	7E-05 (J)			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
8/27/2019	<0.002			<0.002	6.6E-05 (J)			
8/28/2019		<0.002	<0.002					
10/15/2019				<0.002				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	<0.002	<0.002
11/18/2019						<0.002		
11/19/2019							<0.002	<0.002
12/4/2019							<0.002	<0.002
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		<0.002
1/8/2020							<0.002	<0.002
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	<0.002
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.002	<0.002
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					6.6E-05 (J)			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
2/28/2023						<0.002	<0.002	<0.002
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				
9/12/2023	<0.002			<0.002	<0.002			
9/13/2023			<0.002				<0.002	<0.002
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.002			<0.002
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.002
3/20/2025		<0.002		<0.002	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.002	<0.002		
8/31/2016		<0.002	<0.002	<0.002				
10/25/2016							<0.002	
11/30/2016		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2017					<0.002	<0.002	<0.002	
2/16/2017		<0.002	<0.002	<0.002				
5/31/2017					<0.002	<0.002	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.002	<0.002	<0.002				
8/2/2017	<0.002							
8/15/2017					<0.002		<0.002	
8/16/2017						<0.002		
8/17/2017	<0.002	<0.002	<0.002	<0.002				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.002	<0.002	
6/20/2018	<0.002	<0.002	<0.002					
6/21/2018				<0.002				
9/25/2018					<0.002	<0.002		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.002	<0.002	<0.002				
11/6/2018	<0.002			<0.002		<0.002	<0.002	
11/7/2018		<0.002	<0.002		<0.002			
3/6/2019			<0.002					
8/26/2019						<0.002		
8/27/2019	<0.002				<0.002		<0.002	
8/28/2019		<0.002	<0.002	<0.002				
10/15/2019	<0.002				<0.002	<0.002		
10/16/2019		<0.002					<0.002	
10/17/2019			7.6E-05 (J)	<0.002				
3/27/2020					<0.002	<0.002	<0.002	
3/28/2020	<0.002	<0.002	<0.002	<0.002				
9/13/2021					<0.002	<0.002		
9/14/2021	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
3/1/2022		<0.002	<0.002					<0.002
3/2/2022				<0.002				
3/3/2022	<0.002				<0.002	<0.002	<0.002	
9/20/2022			<0.002					<0.002
9/21/2022	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.002	<0.002	<0.002		<0.002		<0.002
9/12/2023		<0.002			<0.002	<0.002		
9/13/2023	<0.002			<0.002			<0.002	
9/14/2023			<0.002					<0.002
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.002		
3/21/2024		<0.002	<0.002	<0.002				<0.002
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.002		<0.002		<0.002		<0.002
9/12/2024			<0.002					
3/17/2025					<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/22/2025 12:04 PM

Plant McManus Client: Southern Company Data: McManus AP1

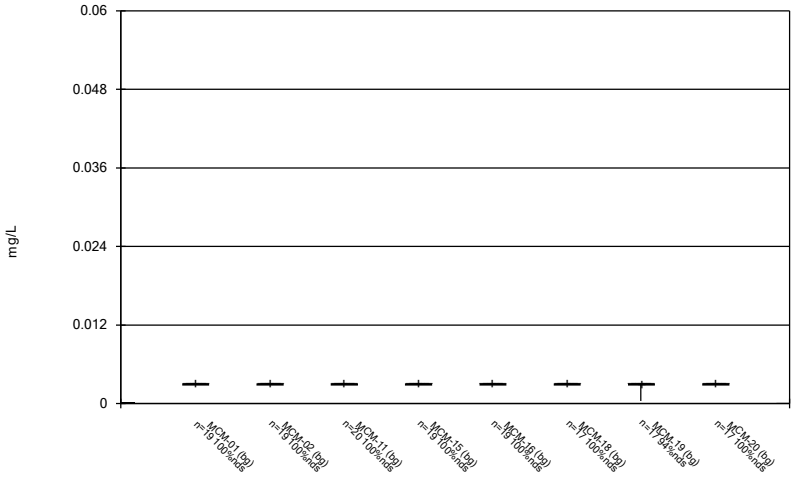
	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.002	<0.002
3/19/2025		<0.002	<0.002	<0.002				
3/20/2025	<0.002							

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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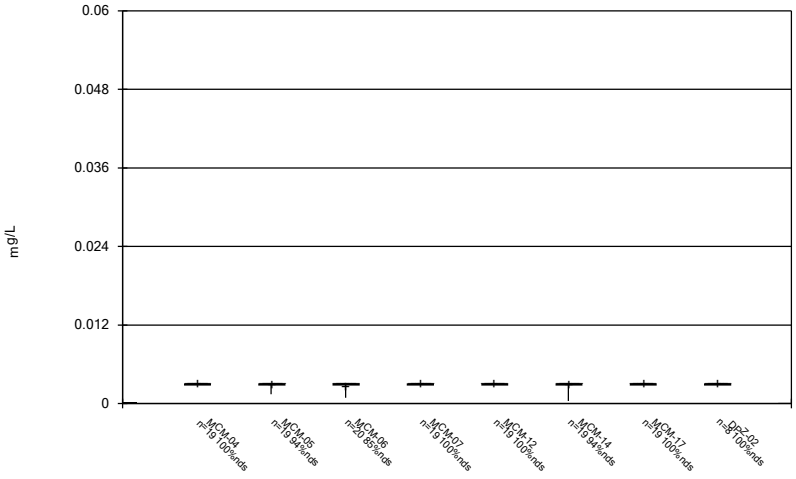
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/22/2025 12:05 PM
Plant McManus Client: Southern Company Data: McManus AP1

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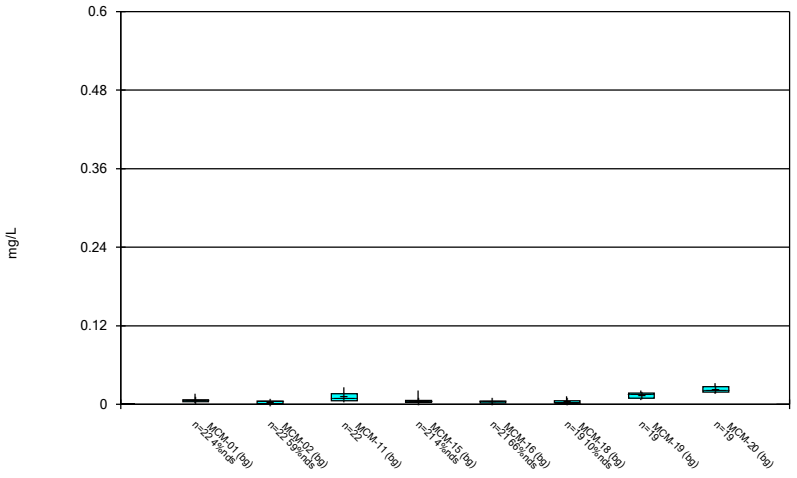
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/22/2025 12:05 PM
Plant McManus Client: Southern Company Data: McManus AP1

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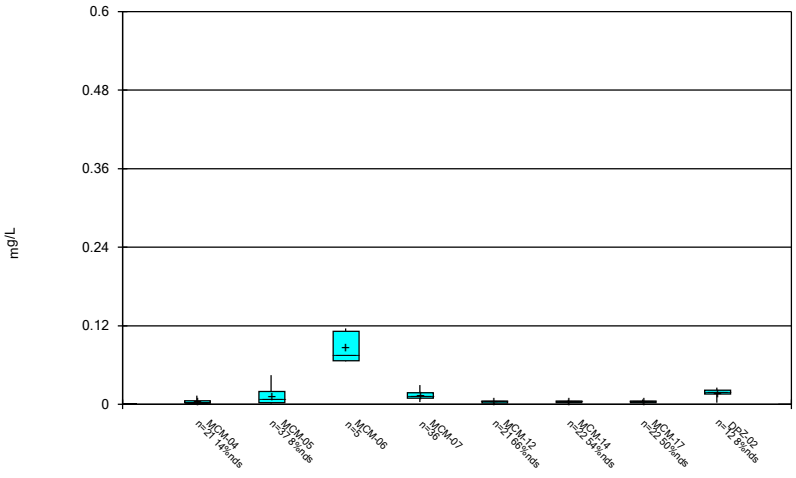
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/22/2025 12:05 PM
Plant McManus Client: Southern Company Data: McManus AP1

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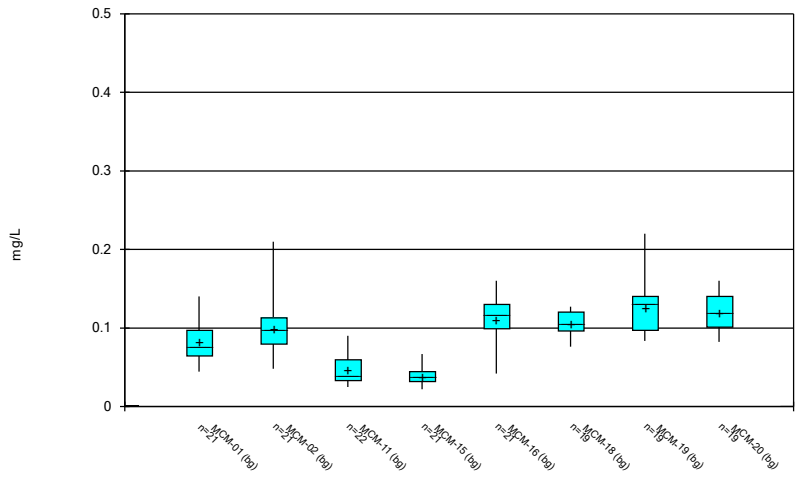
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/22/2025 12:05 PM
Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

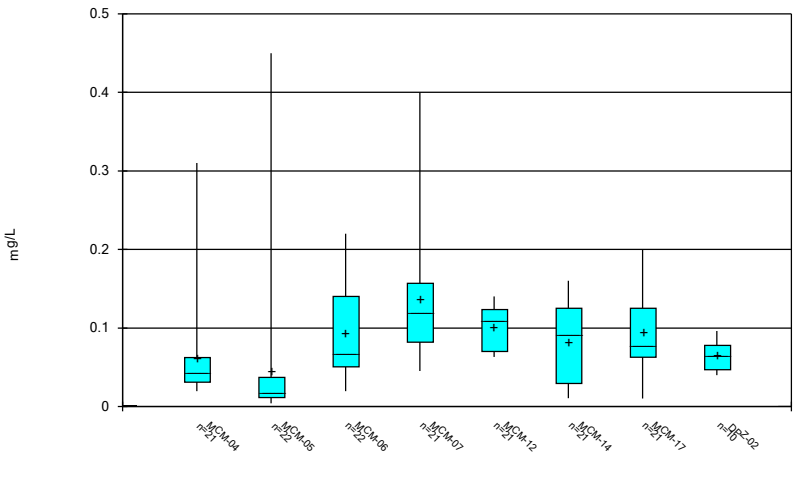


Constituent: Barium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

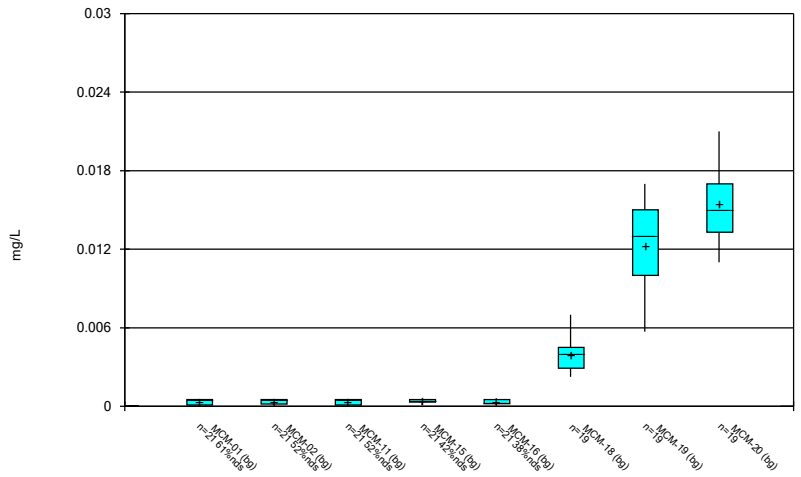


Constituent: Barium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

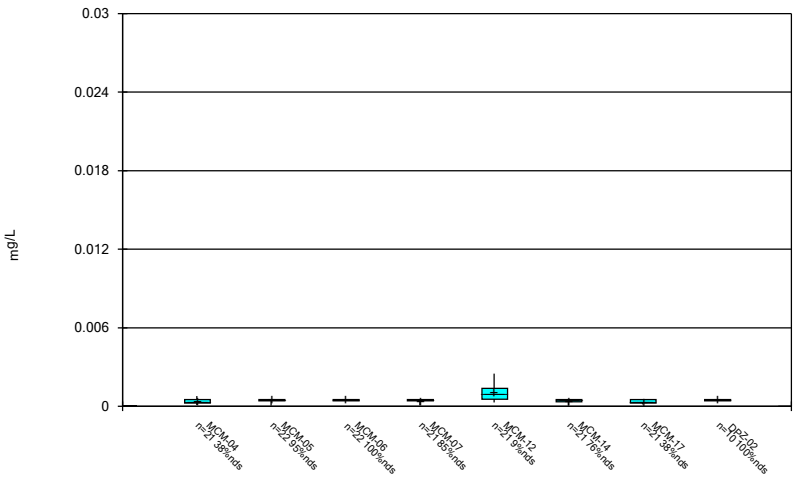


Constituent: Beryllium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

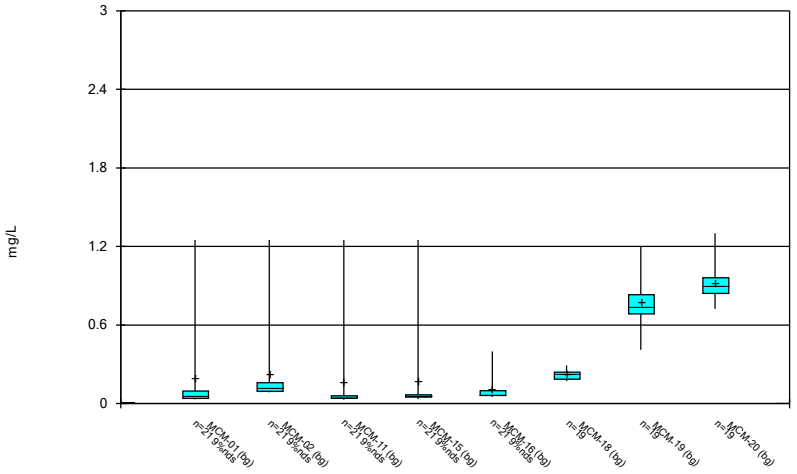


Constituent: Beryllium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

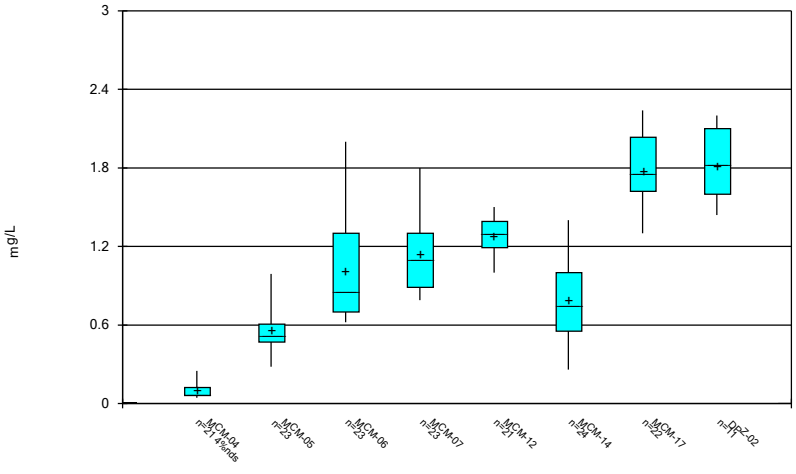


Constituent: Boron Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

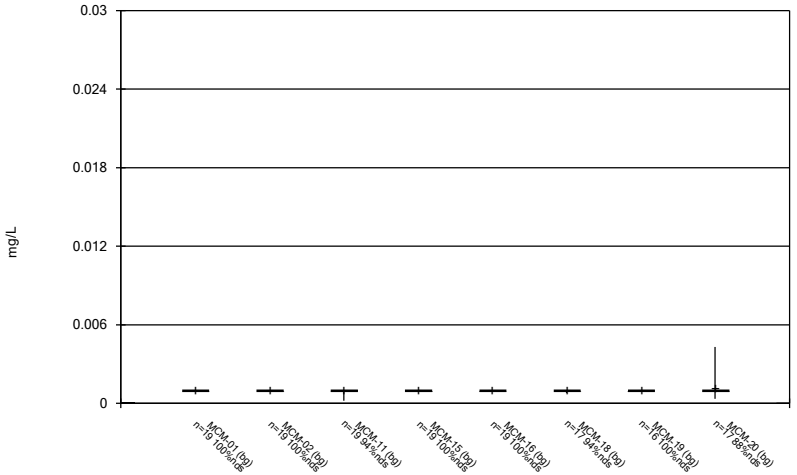


Constituent: Boron Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

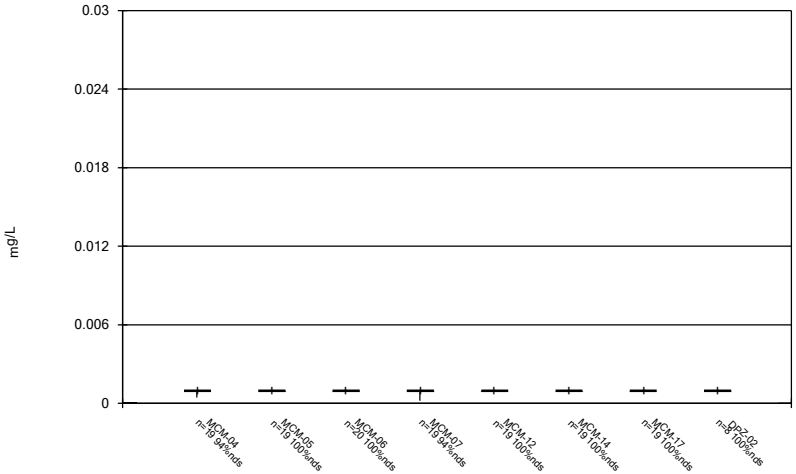


Constituent: Cadmium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

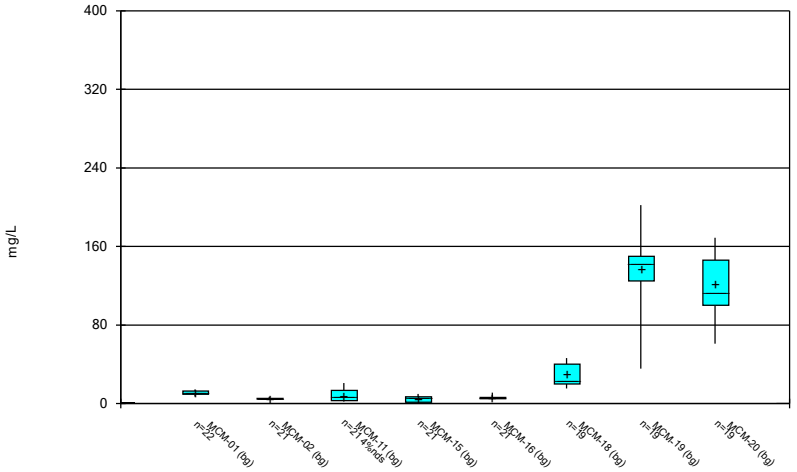


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Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

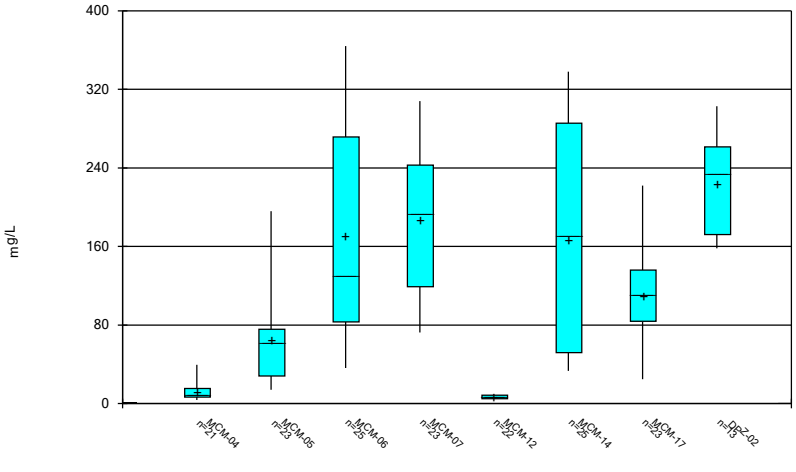


Constituent: Calcium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

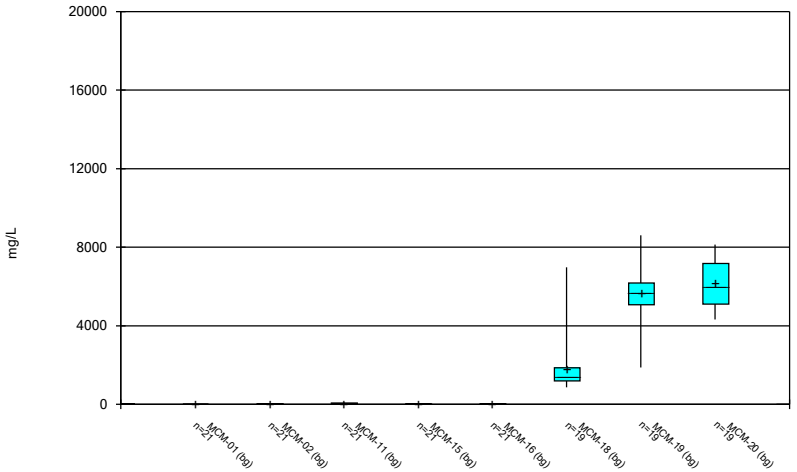


Constituent: Calcium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

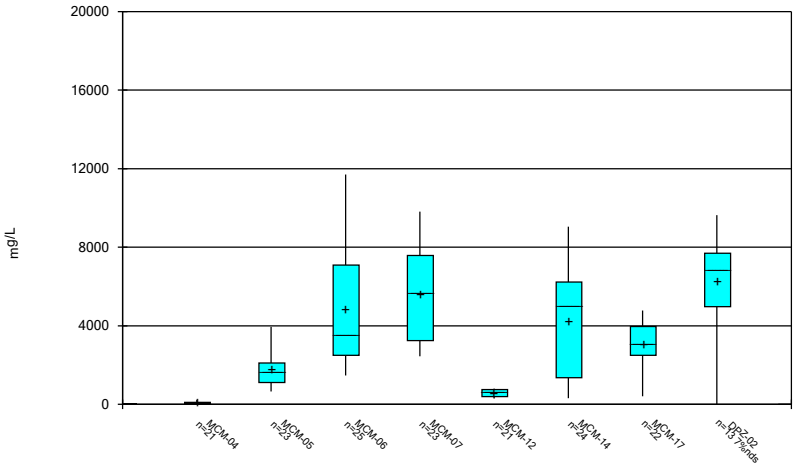


Constituent: Chloride Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

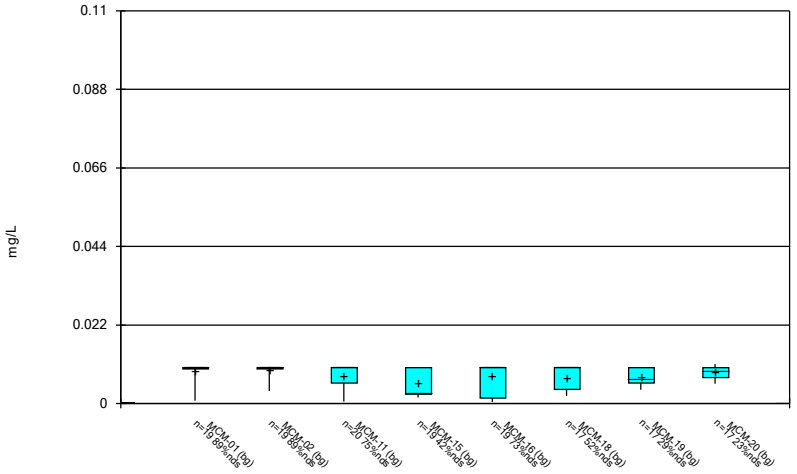


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Box & Whiskers Plot

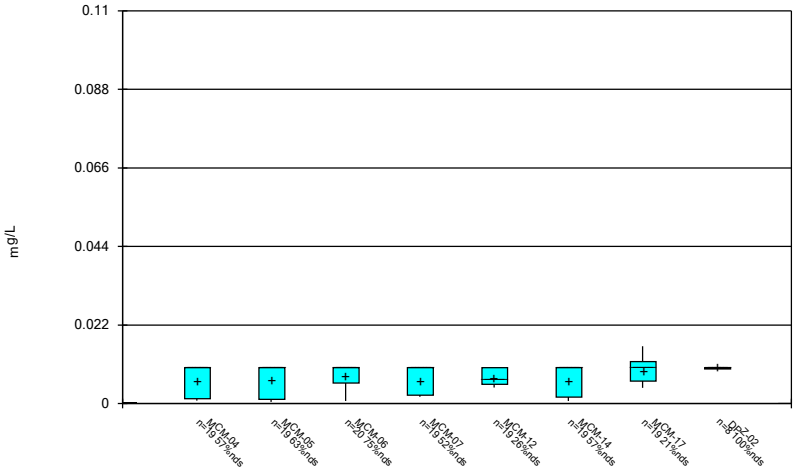


Constituent: Chromium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

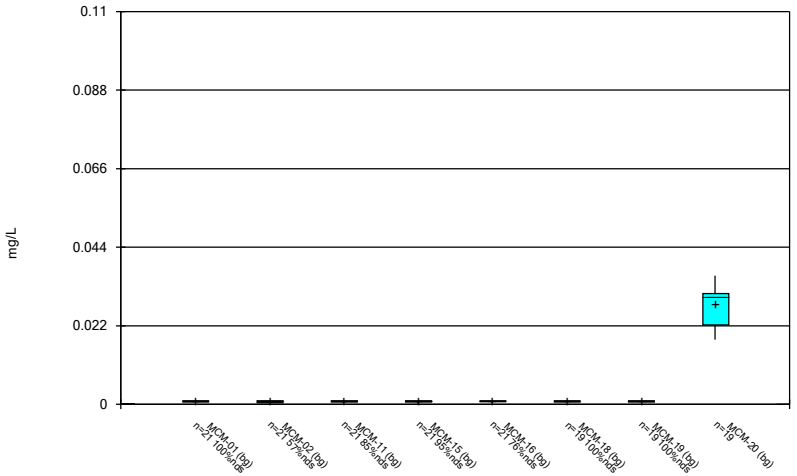


Constituent: Chromium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

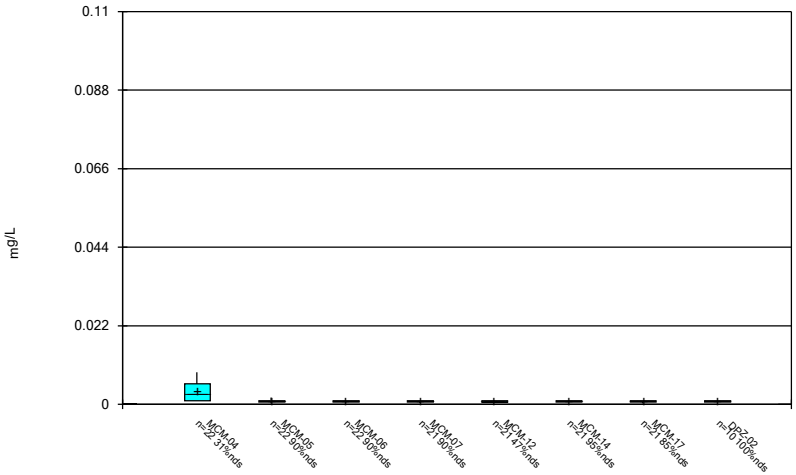


Constituent: Cobalt Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

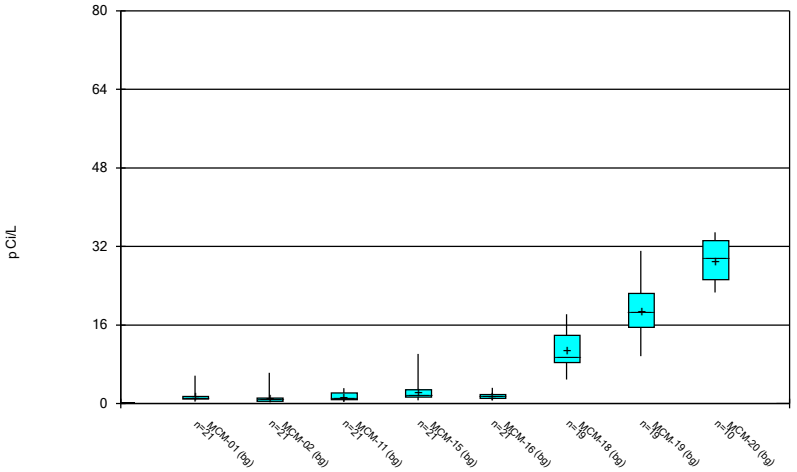


Constituent: Cobalt Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

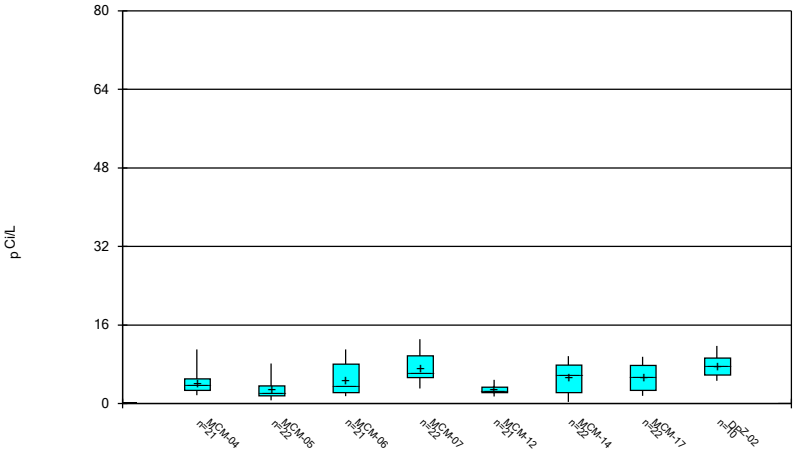


Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

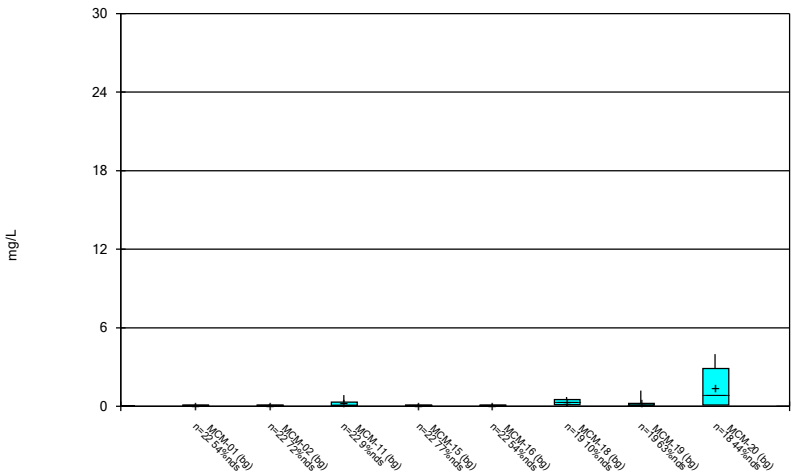


Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

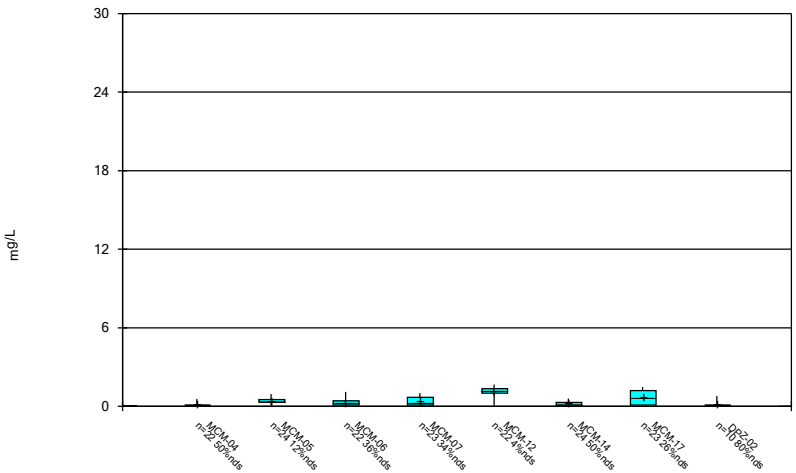


Constituent: Fluoride Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

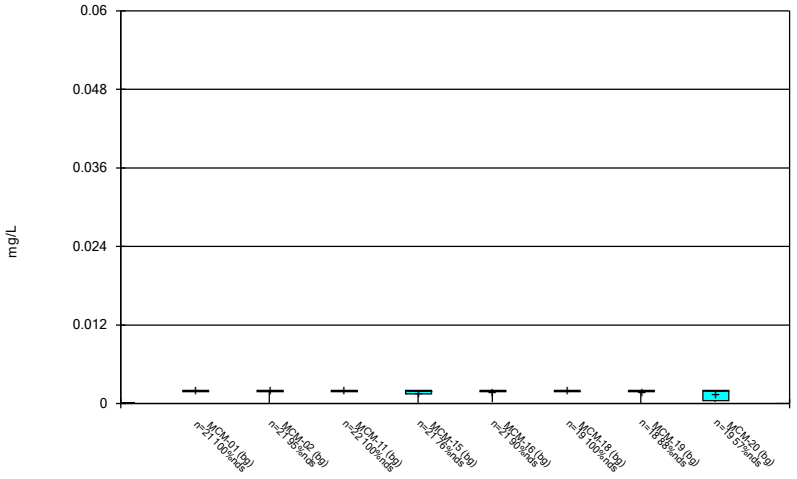


Constituent: Fluoride Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

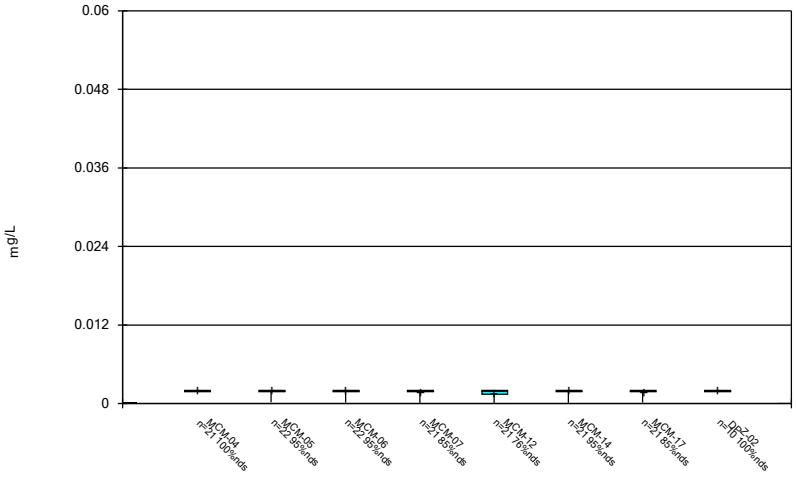


Constituent: Lead Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

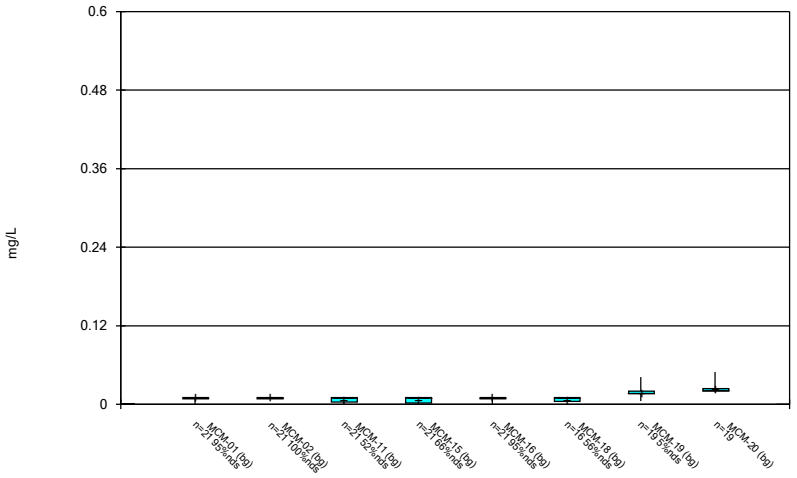


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Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

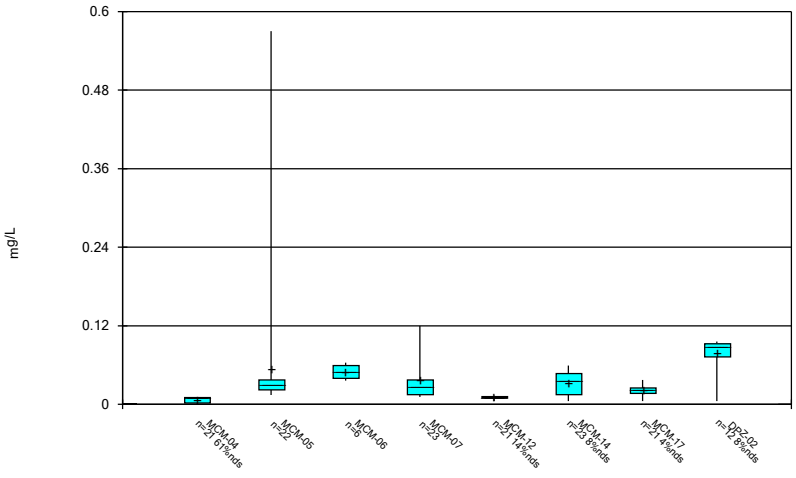


Constituent: Lithium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

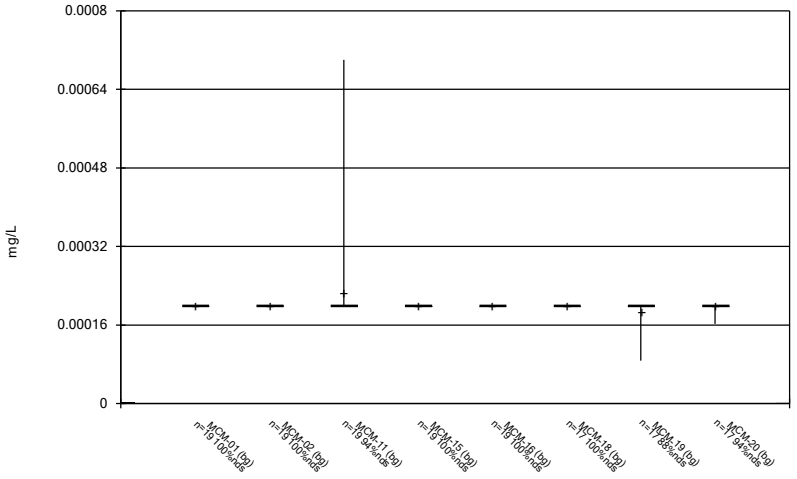


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Box & Whiskers Plot

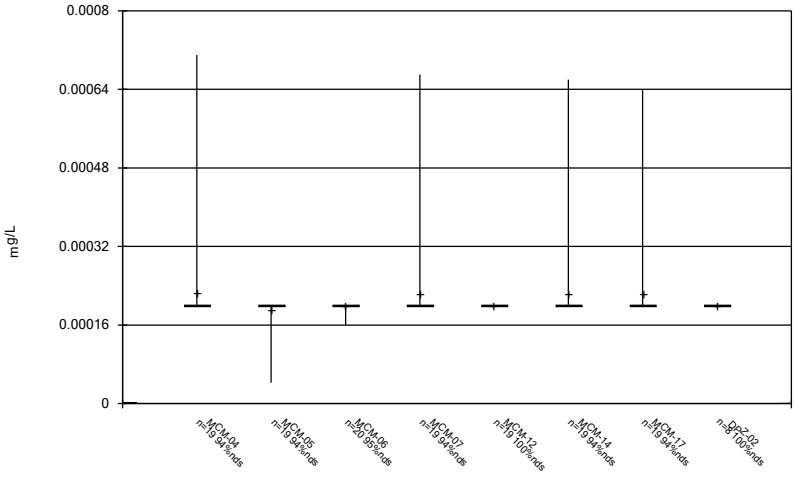


Constituent: Mercury Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

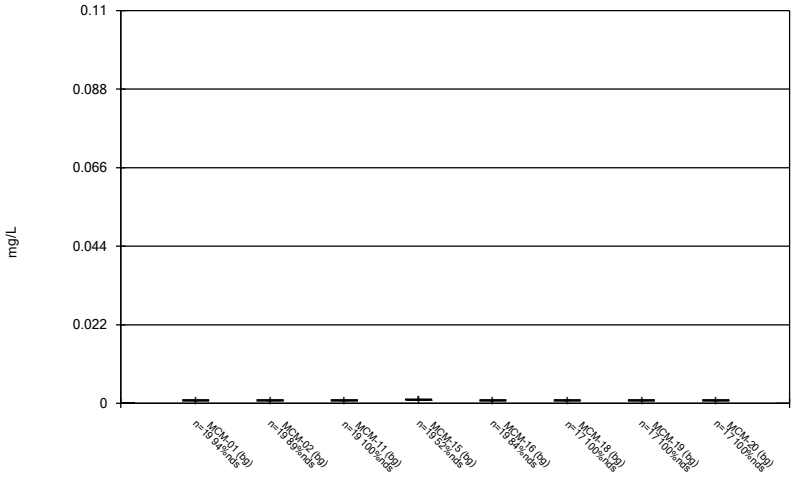


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Plant McManus Client: Southern Company Data: McManus AP1

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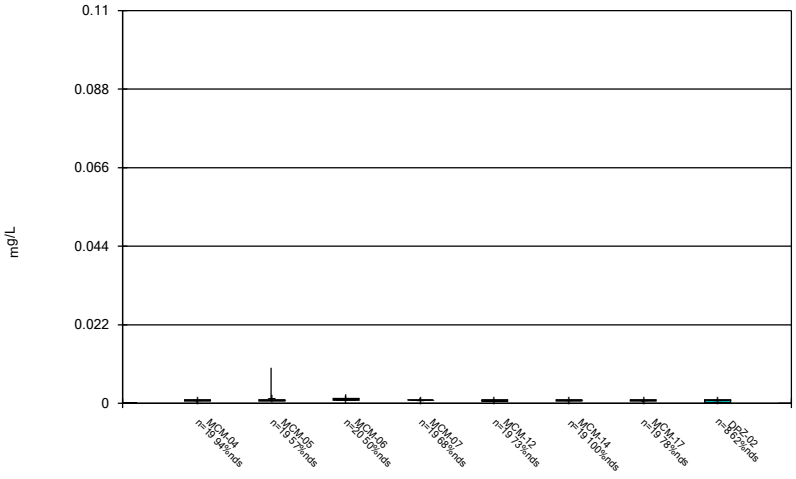


Constituent: Molybdenum Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

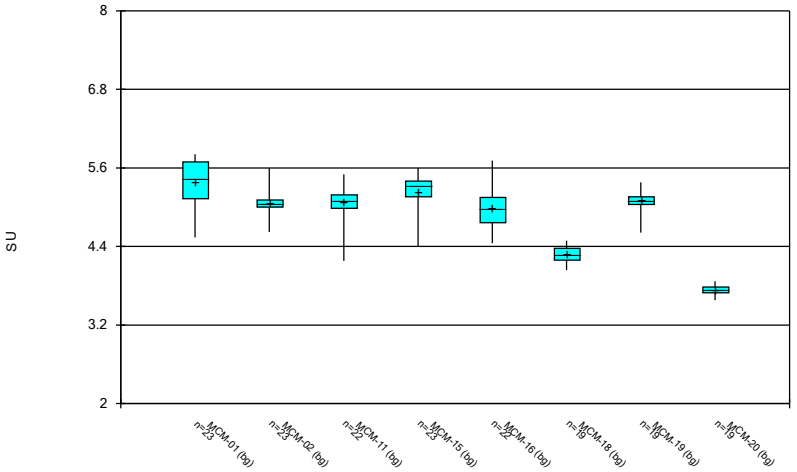


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Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

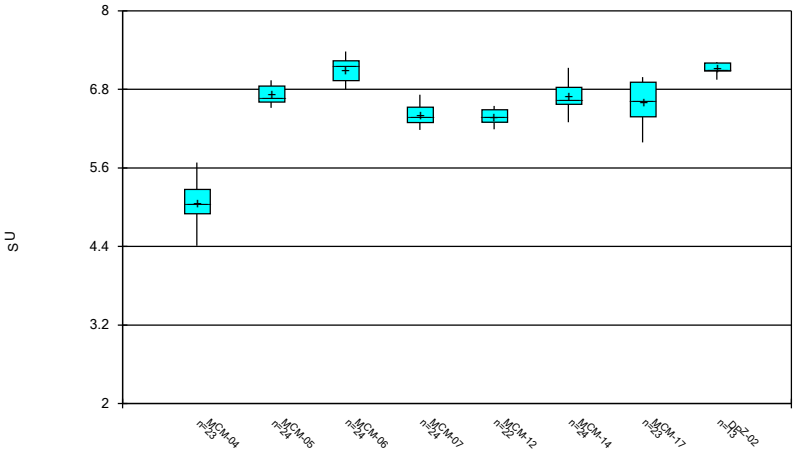


Constituent: pH, Field Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

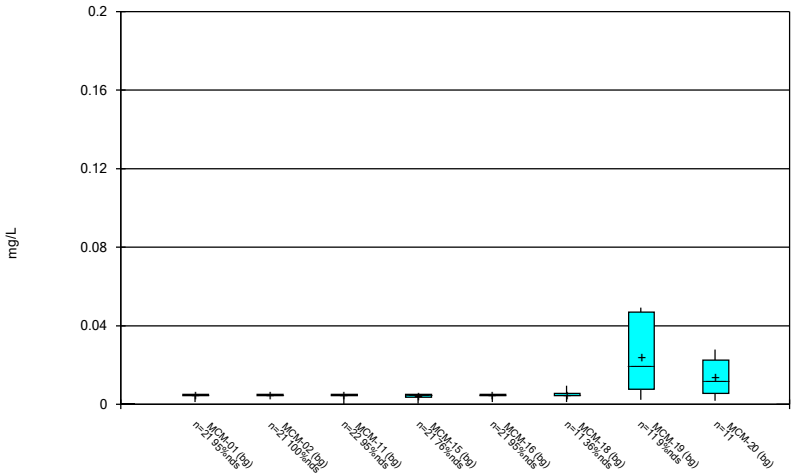


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Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

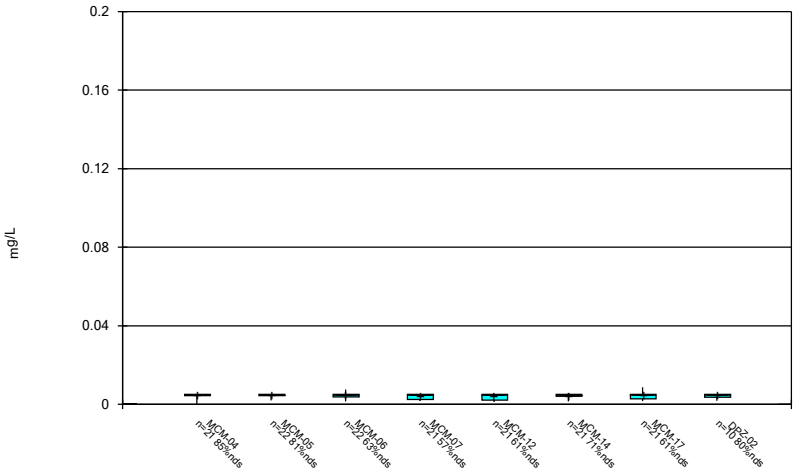


Constituent: Selenium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

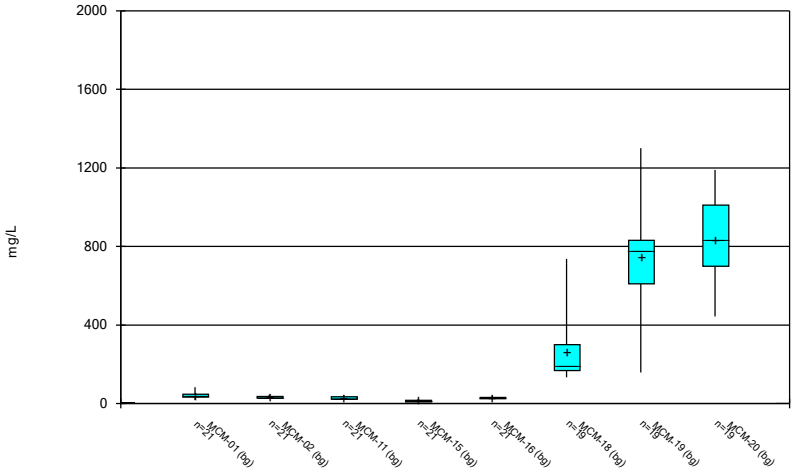


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Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

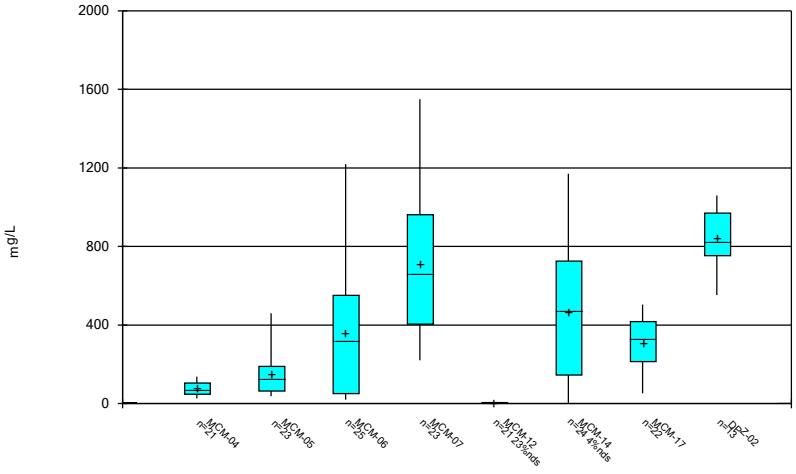


Constituent: Sulfate Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

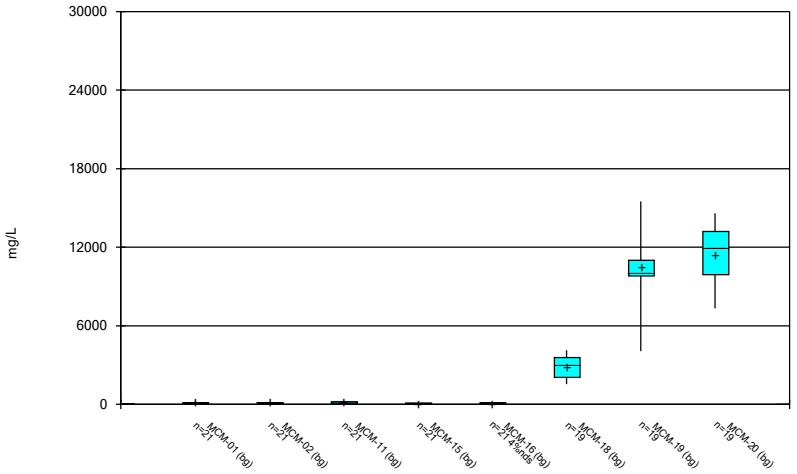


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Plant McManus Client: Southern Company Data: McManus AP1

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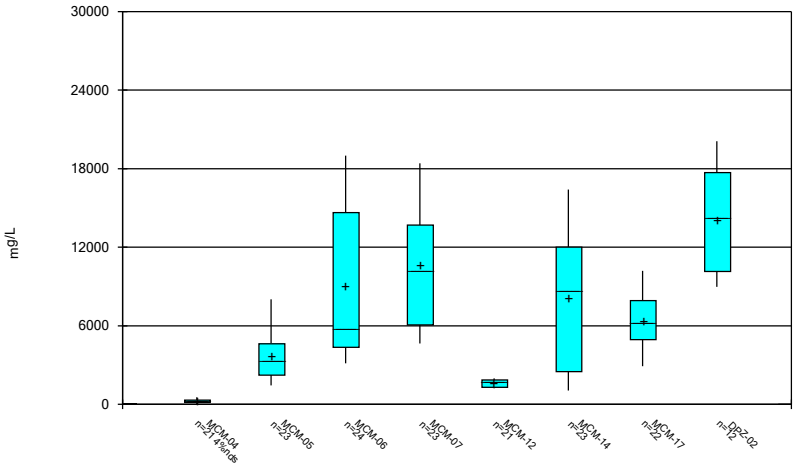


Constituent: TDS Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

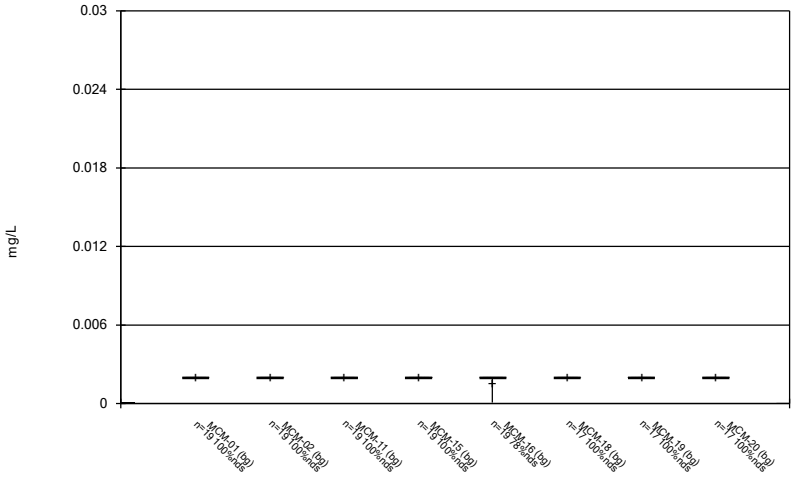


Constituent: TDS Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot

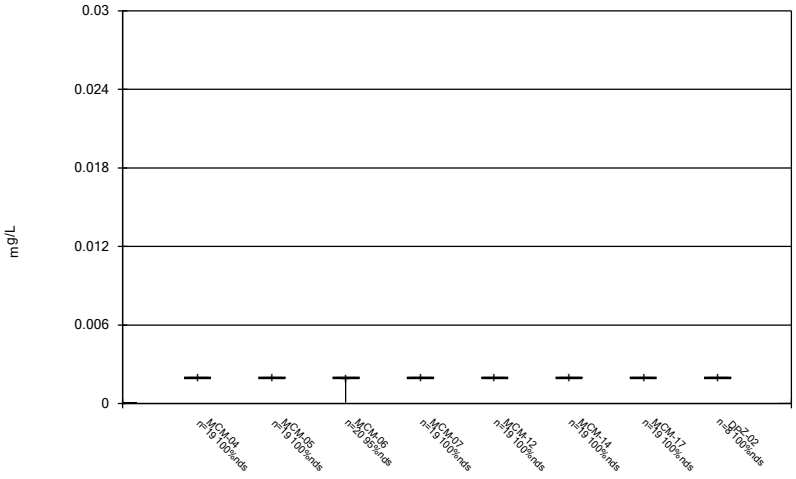


Constituent: Thallium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

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Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/22/2025 12:05 PM

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:09 PM

	MCM-19 Cadmium (mg/L)	MCM-20 Fluoride (mg/L)	MCM-06 Fluoride (mg/L)	MCM-19 Lead (mg/L)	MCM-18 Lithium (mg/L)
11/7/2018			10.3 (O)		
11/18/2019					<0.1 (O)
1/21/2020					<0.15 (O)
2/4/2020					<0.3 (O)
2/13/2020				<0.025 (O)	
9/20/2022	0.0083 (O)	4.3 (JO)			

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/19/2025, 3:09 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.0259,0.0188,0.017,0.017,0.0217,0.021,0.021,0.02**	**NP**	**NaN**	**165**	**0.008712**	**0.00744**	**x^6**	**ChiSquared**
Barium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.21,0.16,0.16,0.22**	**NP**	**NaN**	**163**	**0.08964**	**0.03853**	**x^6**	**ChiSquared**
Beryllium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.014,0.014,0.01,0.012,0.012,0.012,0.015,0.015,0.**	**NP**	**NaN**	**162**	**0.003915**	**0.005859**	**x^4**	**ChiSquared**
Boron (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.84,0.83,0.68,0.57,0.73,0.73,0.75,0.79,0.79,0.74**	**NP**	**NaN**	**162**	**0.2875**	**0.3303**	**x^3**	**ChiSquared**
Calcium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**26,158,152,142,142,136,147,167,148,122,125,123,93**	**NP**	**NaN**	**147**	**31.71**	**49.1**	**x^6**	**ChiSquared**
Chloride (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**6170,5650,6100,5660,5070,5010,5030,6140,6870,5260**	**NP**	**NaN**	**145**	**1221**	**2267**	**x^2**	**ChiSquared**
Combined Radium 226 + 228 (pCi/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**17.7,18.9,18.6,21.8,16.9,15.6,22.4,31.1,22.8,14.1**	**NP**	**NaN**	**145**	**6.291**	**8.949**	**x^6**	**ChiSquared**
Fluoride (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.85,0.69,0.29,0.32,0.32,0.63,0.362,0.206,0.202,0**	**NP**	**NaN**	**167**	**0.3072**	**0.6817**	**x^4**	**ChiSquared**
Sulfate (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**832,832,795,810,810,535,603,611,599,761,836,609,7**	**NP**	**NaN**	**154**	**226.7**	**342.6**	**x^6**	**ChiSquared**
TDS (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**10900,10900,10000,10000,11000,11000,9860,9760,101**	**NP**	**NaN**	**145**	**2305**	**4174**	**x^3**	**ChiSquared**

Tukey's Outlier Test - Upgradient Wells - All Results

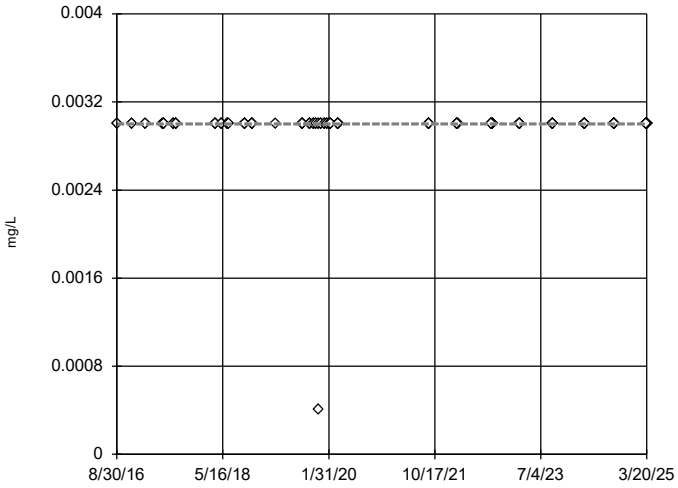
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/19/2025, 3:09 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	147	0.002982	0.0002136	unknown	ChiSquared
Arsenic (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.0259,0.0188,0.017,0.017,0.0217,0.021,0.021,0.02**	**NP**	**NaN**	**165**	**0.008712**	**0.00744**	**x^6**	**ChiSquared**
Barium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.21,0.16,0.16,0.22**	**NP**	**NaN**	**163**	**0.08964**	**0.03853**	**x^6**	**ChiSquared**
Beryllium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.014,0.014,0.01,0.012,0.012,0.012,0.015,0.015,0.**	**NP**	**NaN**	**162**	**0.003915**	**0.005859**	**x^4**	**ChiSquared**
Boron (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.84,0.83,0.68,0.57,0.73,0.73,0.75,0.79,0.79,0.74**	**NP**	**NaN**	**162**	**0.2875**	**0.3303**	**x^3**	**ChiSquared**
Cadmium (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	146	0.001061	0.0006683	unknown	ChiSquared
Calcium (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**26,158,152,142,142,136,147,167,148,122,125,123,93**	**NP**	**NaN**	**147**	**31.71**	**49.1**	**x^6**	**ChiSquared**
Chloride (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**6170,5650,6100,5660,5070,5010,5030,6140,6870,5260**	**NP**	**NaN**	**145**	**1221**	**2267**	**x^2**	**ChiSquared**
Chromium (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	139	0.00799	0.003256	unknown	ChiSquared
Cobalt (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	162	0.00409	0.0089	unknown	ChiSquared
Combined Radium 226 + 228 (pCi/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**17.7,18.9,18.6,21.8,16.9,15.6,22.4,31.1,22.8,14.1**	**NP**	**NaN**	**145**	**6.291**	**8.949**	**x^6**	**ChiSquared**
Fluoride (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**0.85,0.69,0.29,0.32,0.32,0.63,0.362,0.206,0.202,0**	**NP**	**NaN**	**167**	**0.3072**	**0.6817**	**x^4**	**ChiSquared**
Lead (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	163	0.001832	0.0005042	unknown	ChiSquared
Lithium (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	162	0.01151	0.006824	unknown	ChiSquared
Mercury (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	146	0.0002017	0.00004349	unknown	ChiSquared
Molybdenum (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	146	0.0009848	0.0001671	unknown	ChiSquared
pH, Field (SU)	MCM-01,MCM-02,MCM...	No	n/a	NP	NaN	170	4.892	0.5587	ln(x)	ChiSquared
Selenium (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	139	0.00686	0.007766	unknown	ChiSquared
Sulfate (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**832,832,795,810,810,535,603,611,599,761,836,609,7**	**NP**	**NaN**	**154**	**226.7**	**342.6**	**x^6**	**ChiSquared**
TDS (mg/L)	**MCM-01,MCM-02,MCM...**	**Yes**	**10900,10900,10000,10000,11000,11000,9860,9760,101**	**NP**	**NaN**	**145**	**2305**	**4174**	**x^3**	**ChiSquared**
Thallium (mg/L)	MCM-01,MCM-02,MCM...	n/a	n/a	NP	NaN	146	0.001947	0.0003169	unknown	ChiSquared

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 147

No outliers found.
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

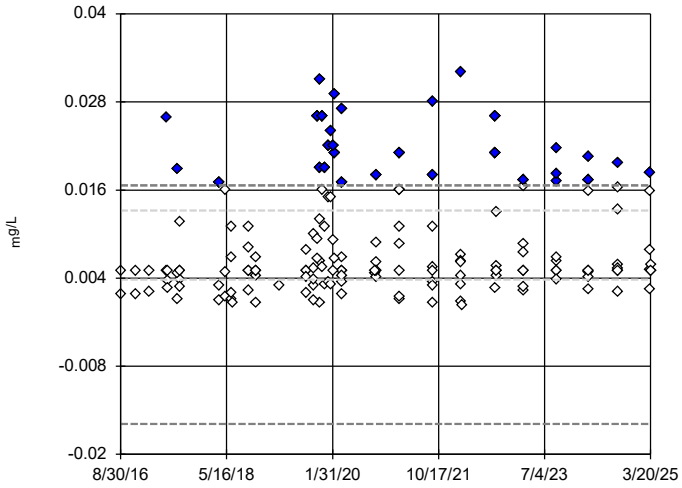
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 165

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

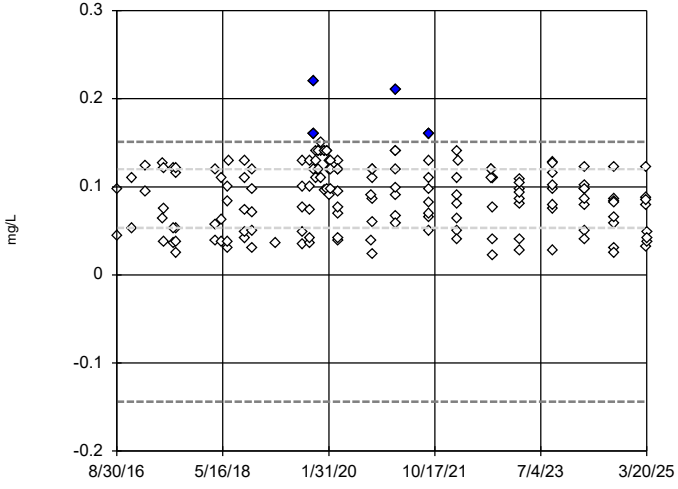
High cutoff = 0.01664, low cutoff = -0.01586, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 163

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

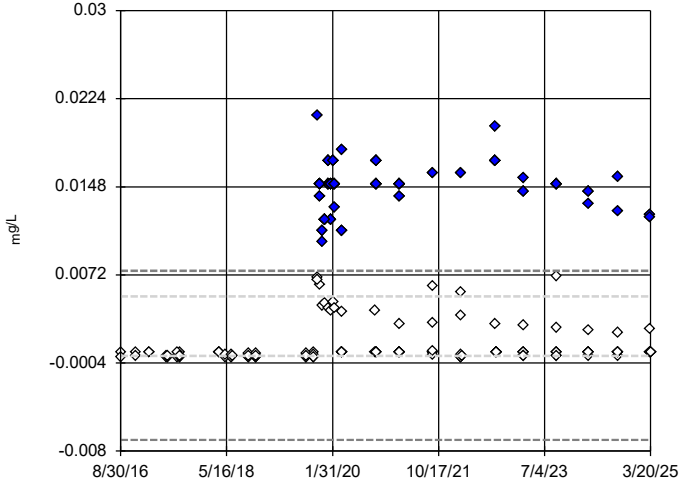
High cutoff = 0.151, low cutoff = -0.1439, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 162

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

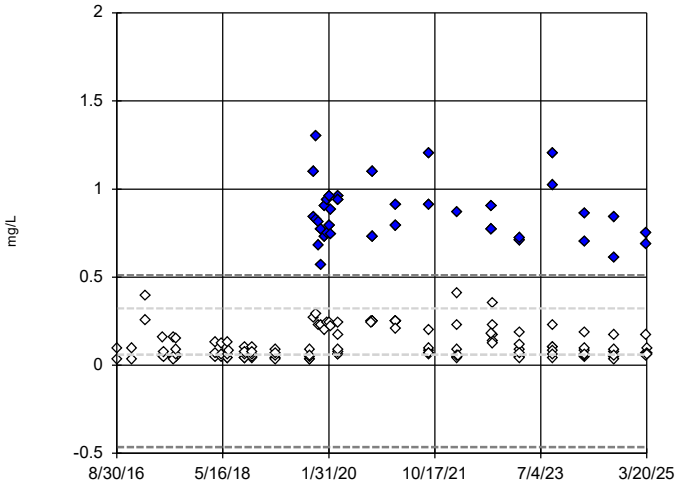
High cutoff = 0.007559, low cutoff = -0.007034, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 162

Outliers are drawn as solid.
Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

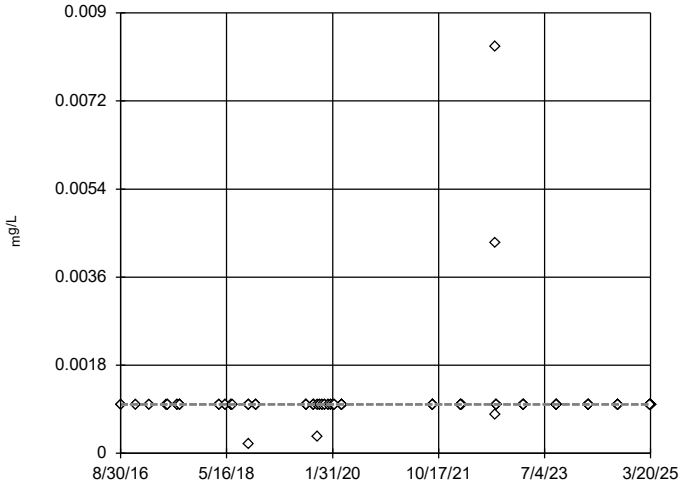
High cutoff = 0.5116, low cutoff = -0.4642, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 146

No outliers found.
Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

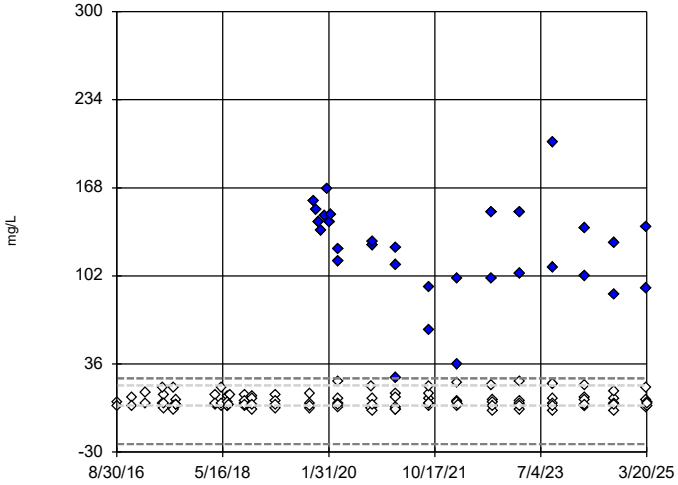
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 147

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

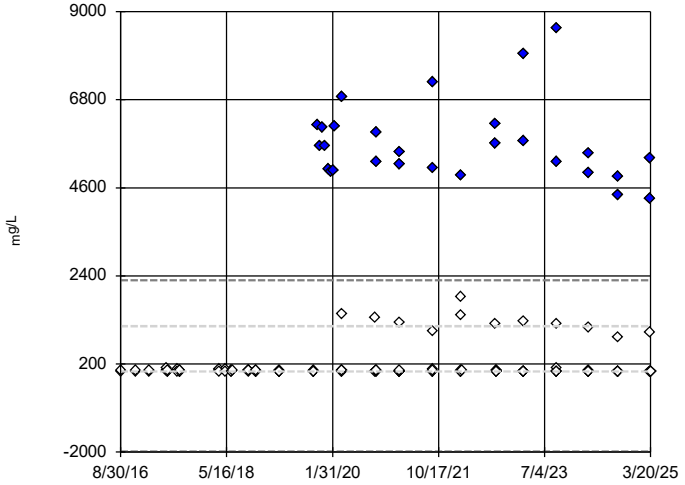
High cutoff = 25.2, low cutoff = -24.02, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 145

Outliers are drawn as solid.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

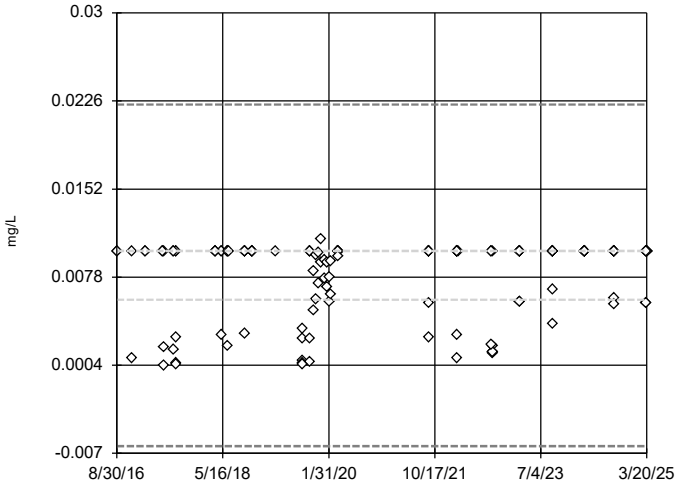
High cutoff = 2292, low cutoff = -1985, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 139

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

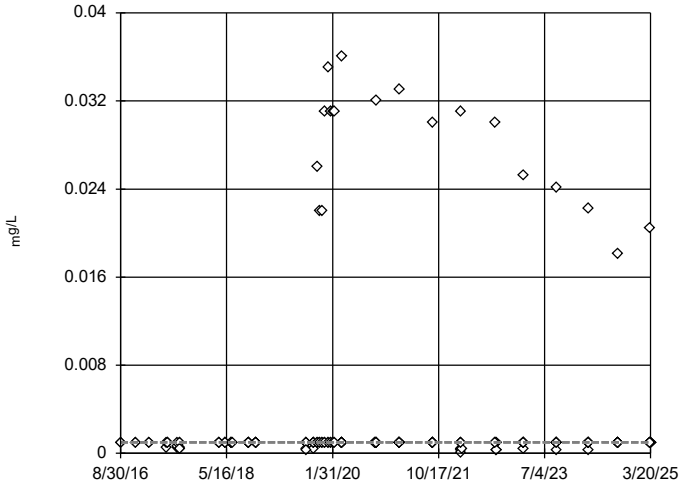
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 162

No outliers found.
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

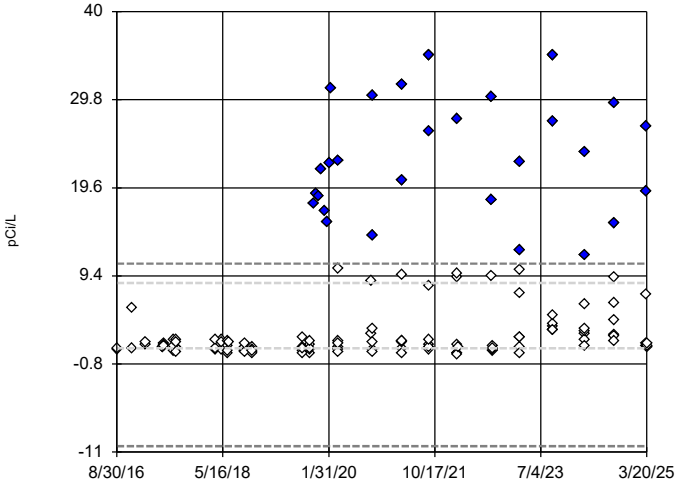
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 145

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

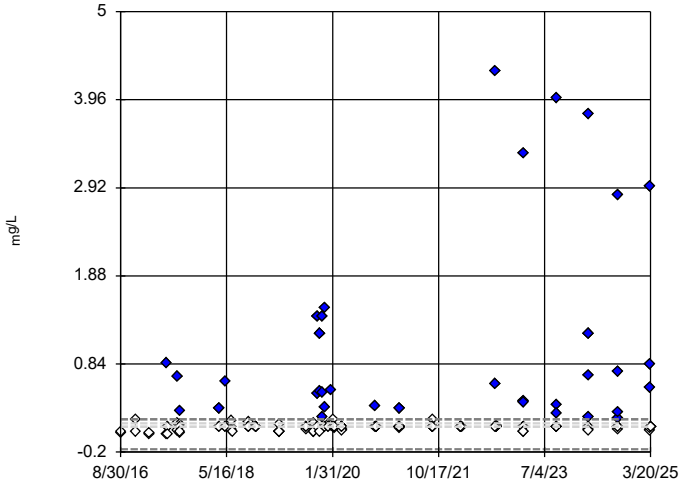
High cutoff = 10.82, low cutoff = -10.32, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 167

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

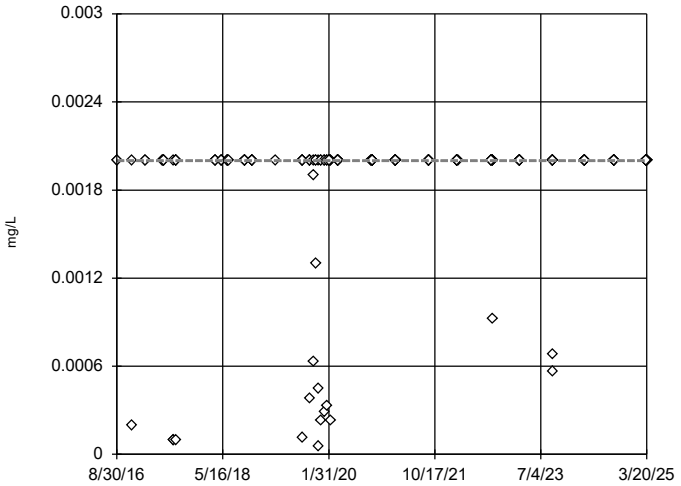
High cutoff = 0.1875, low cutoff = -0.1656, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/19/2025 3:06 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 163

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

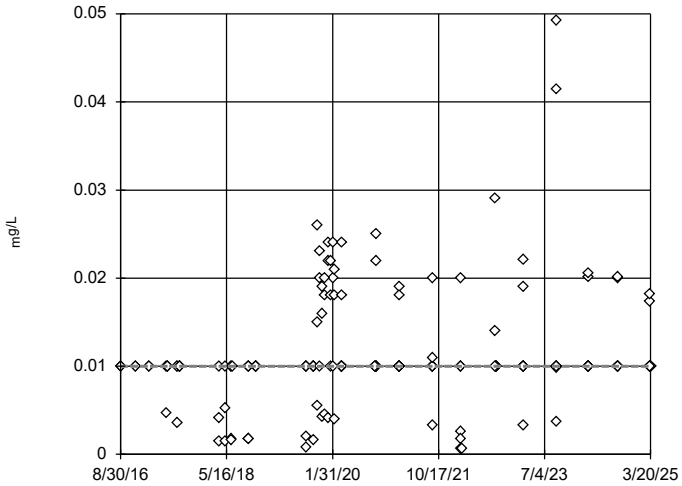
Constituent: Lead Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 162

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

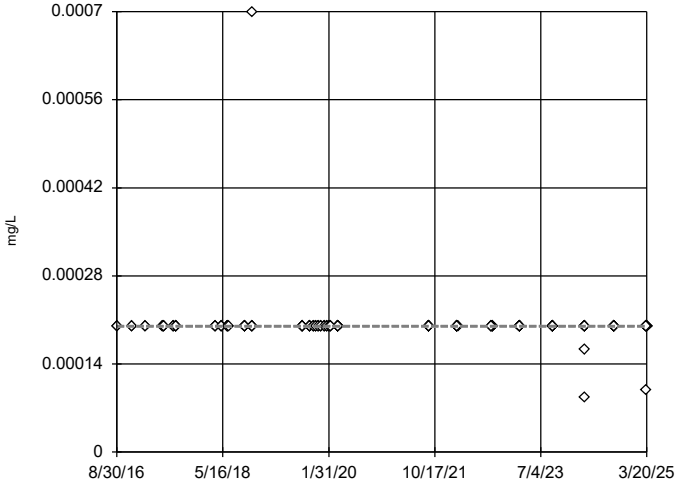
Constituent: Lithium Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 146

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

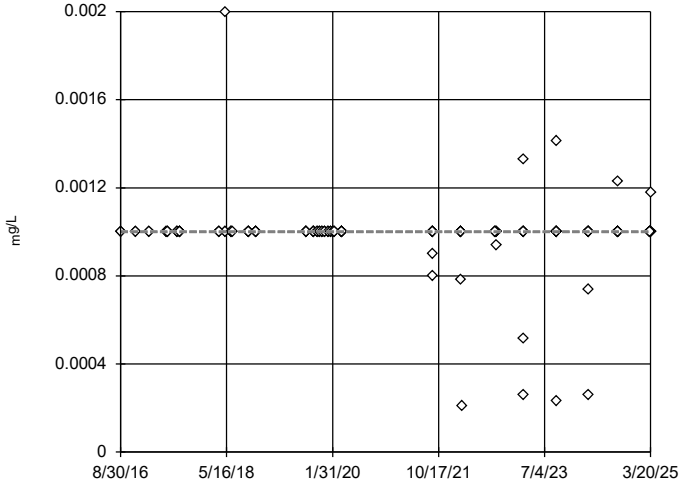
Constituent: Mercury Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 146

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

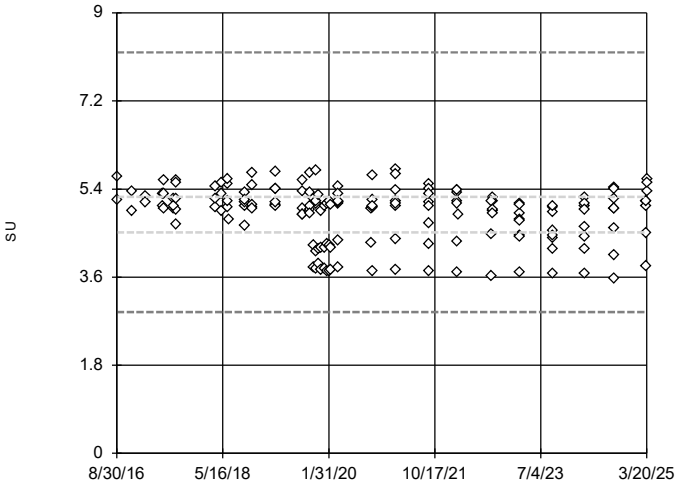
Constituent: Molybdenum Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 170

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

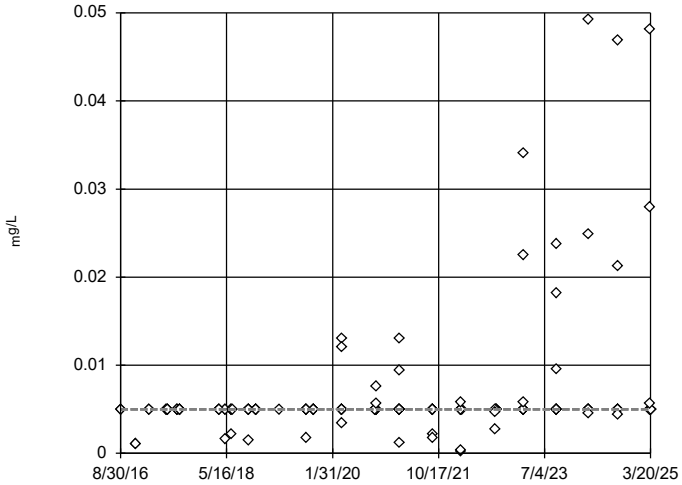
High cutoff = 8.192, low cutoff = 2.888, based on IQR multiplier of 3.

Constituent: pH, Field Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 139

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

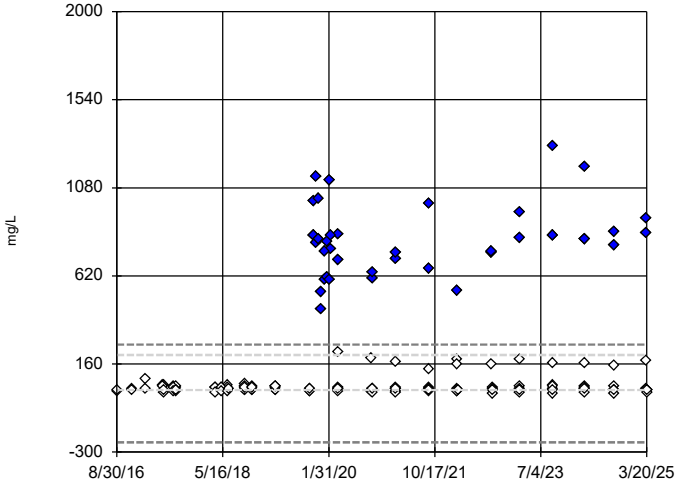
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 154

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

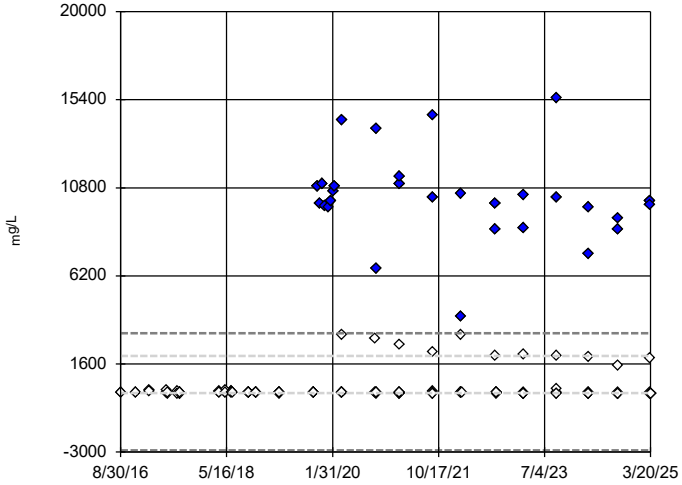
High cutoff = 261.2, low cutoff = -249, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 145

Outliers are drawn as solid.
Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

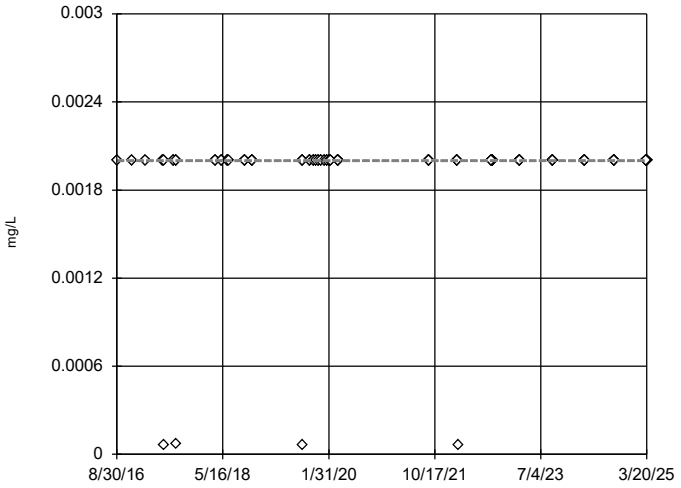
High cutoff = 3207, low cutoff = -2914, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Tukey's Outlier Screening, Pooled Background

MCM-01,MCM-02,MCM-11,MCM-15,MCM-16,MC...



n = 146

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 5/19/2025 3:07 PM View: Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE D.

Appendix III Trend Tests - Upgradient Wells - Significant Results

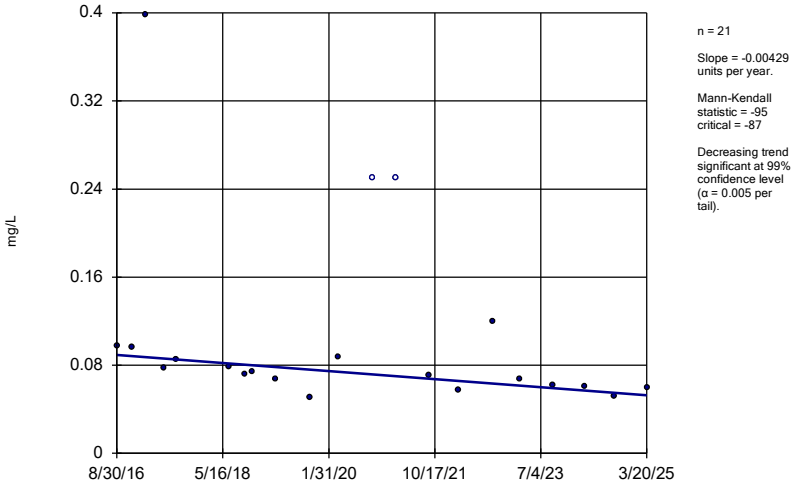
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 2:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-5.412**	**-129**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-13.95**	**-119**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-02 (bg)**	**-3.473**	**-173**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-16 (bg)**	**-2.237**	**-122**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-18 (bg)**	**-248.8**	**-139**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MCM-20 (bg)**	**-571.7**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MCM-02 (bg)**	**-1.97**	**-137**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MCM-18 (bg)**	**-41.32**	**-115**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-01 (bg)**	**-6.475**	**-95**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-02 (bg)**	**-10.08**	**-145**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-16 (bg)**	**-7.583**	**-88**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-18 (bg)**	**-484**	**-149**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MCM-20 (bg)**	**-1139**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -0.00429 units per year.

Mann-Kendall statistic = -95
critical = -87

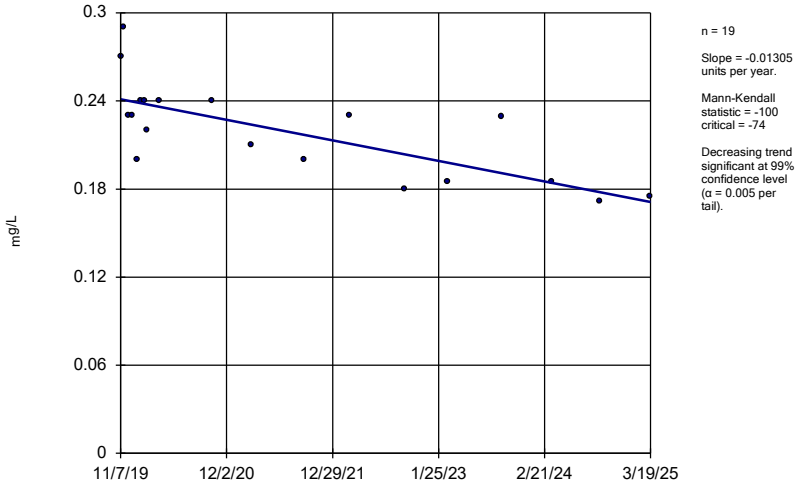
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.01305 units per year.

Mann-Kendall statistic = -100
critical = -74

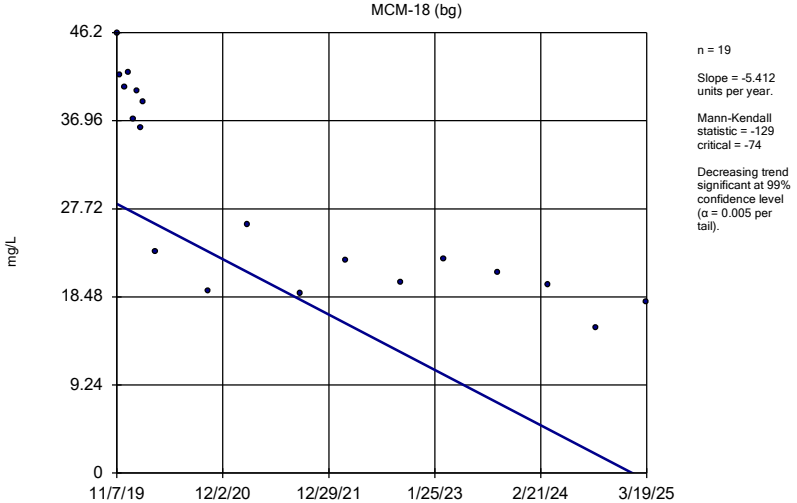
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -5.412 units per year.

Mann-Kendall statistic = -129
critical = -74

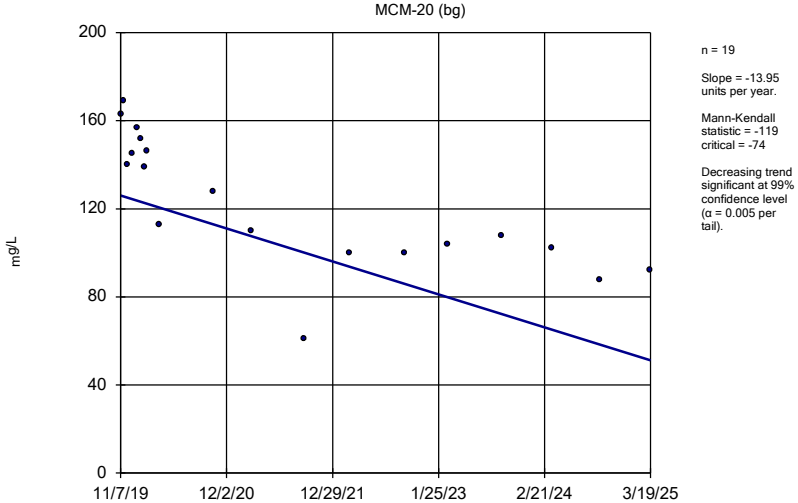
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -13.95 units per year.

Mann-Kendall statistic = -119
critical = -74

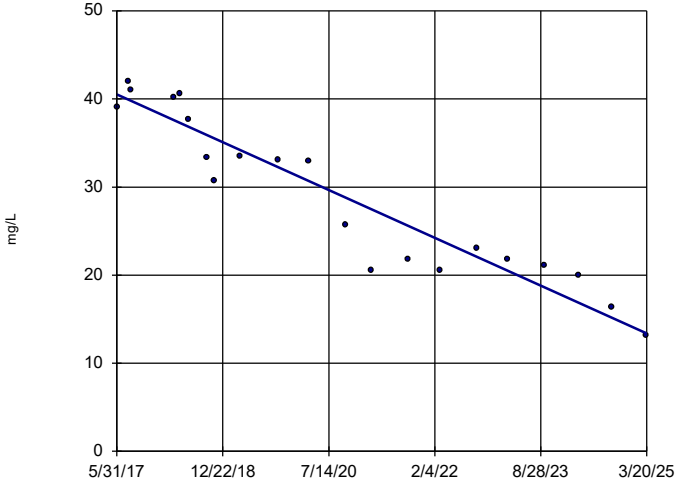
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-02 (bg)



n = 21

Slope = -3.473 units per year.

Mann-Kendall statistic = -173
critical = -87

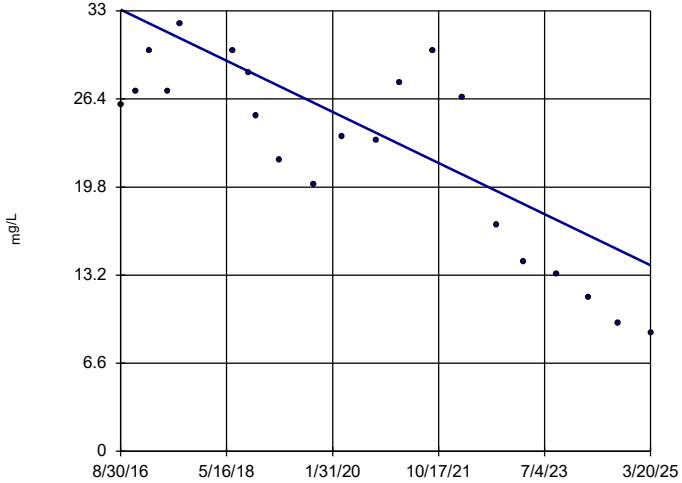
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -2.237 units per year.

Mann-Kendall statistic = -122
critical = -87

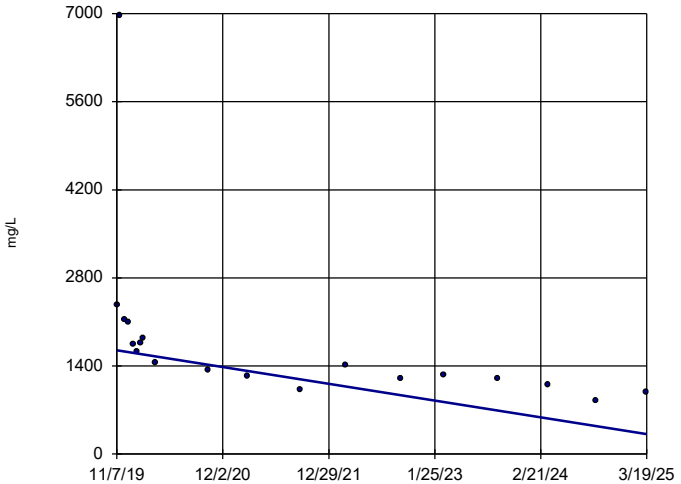
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -248.8 units per year.

Mann-Kendall statistic = -139
critical = -74

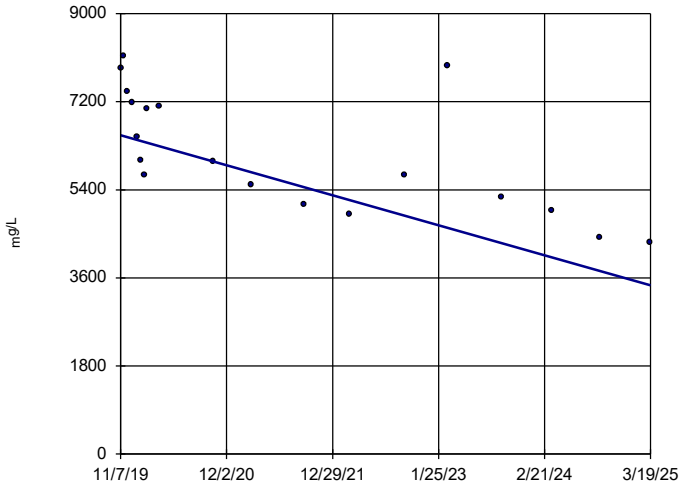
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -571.7 units per year.

Mann-Kendall statistic = -114
critical = -74

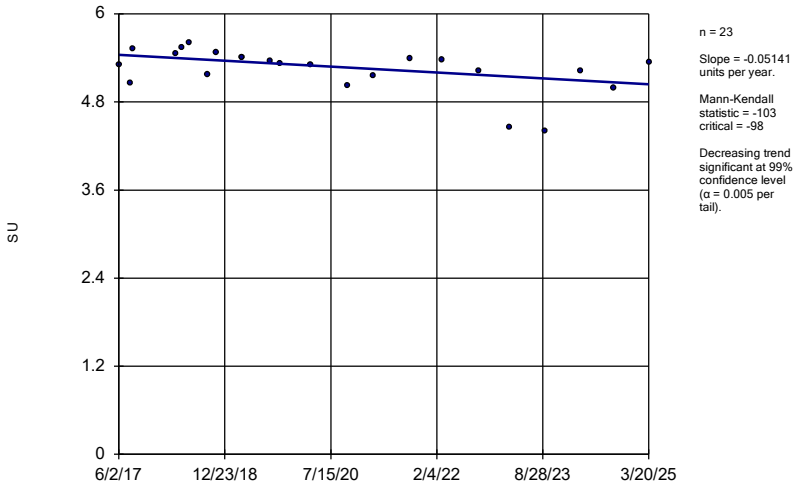
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 2:37 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-15 (bg)



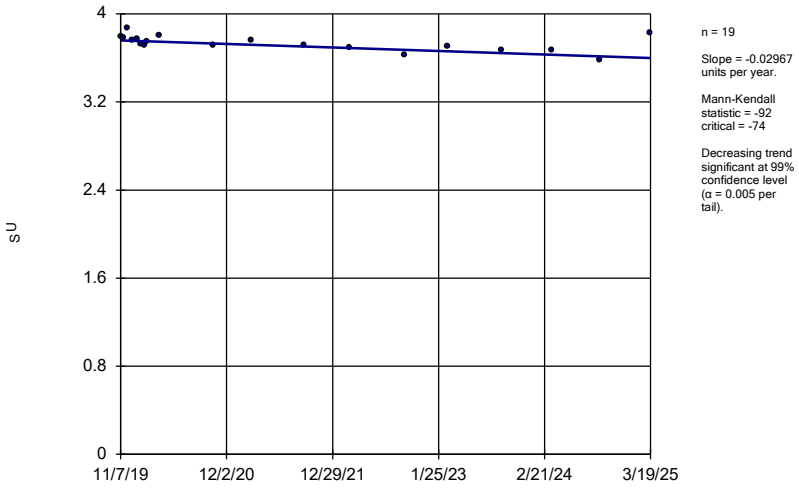
Constituent: pH, Field Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



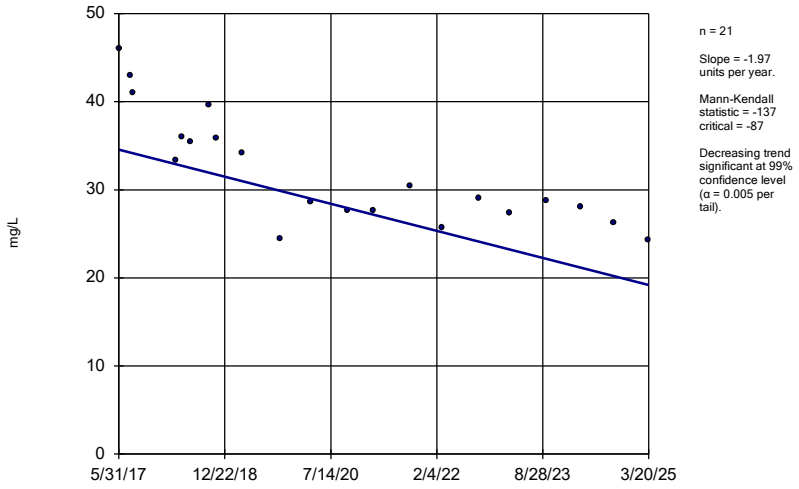
Constituent: pH, Field Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-02 (bg)



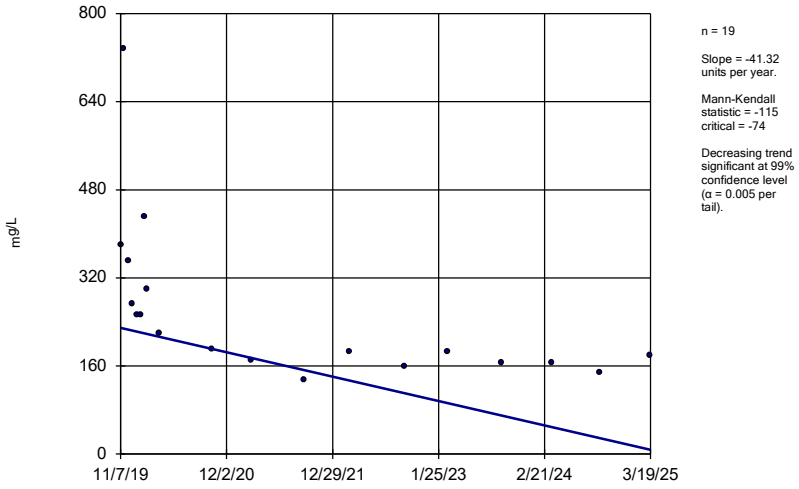
Constituent: Sulfate Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



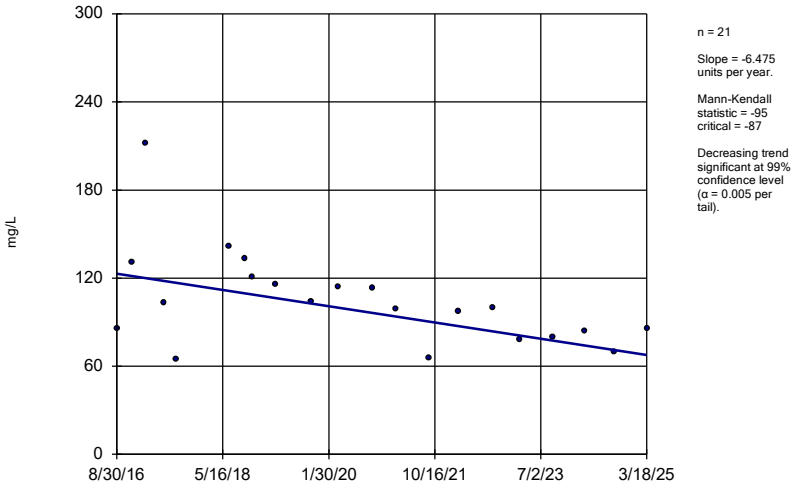
Constituent: Sulfate Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-01 (bg)



n = 21

Slope = -6.475 units per year.

Mann-Kendall statistic = -95
critical = -87

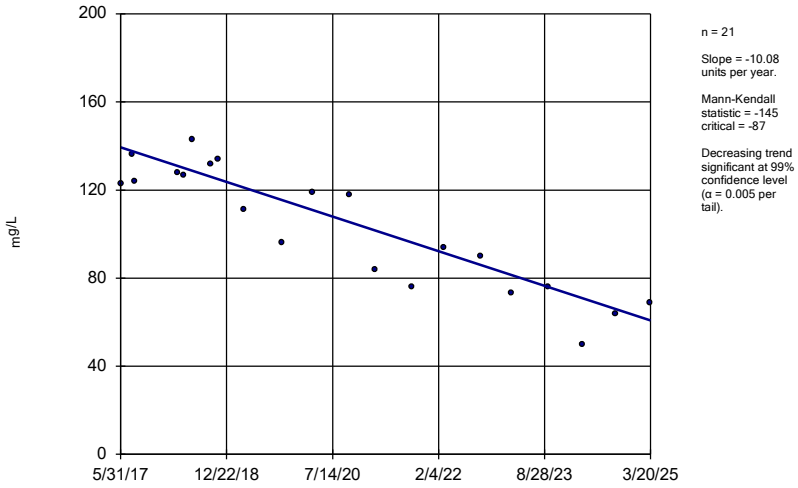
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-02 (bg)



n = 21

Slope = -10.08 units per year.

Mann-Kendall statistic = -145
critical = -87

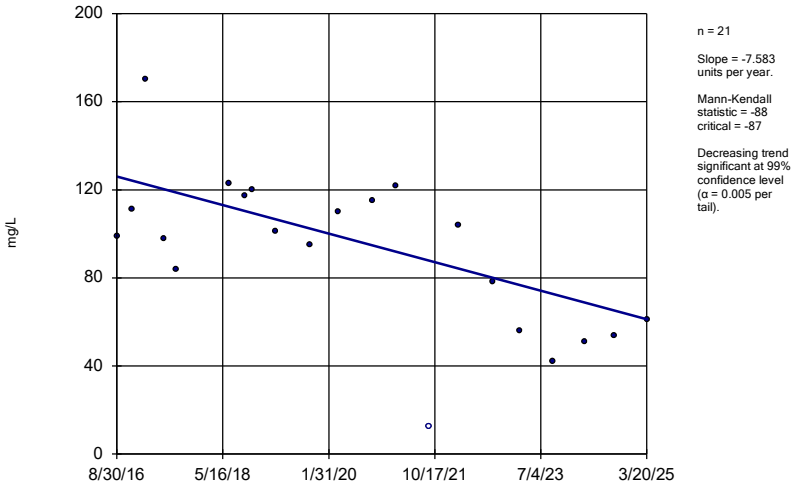
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -7.583 units per year.

Mann-Kendall statistic = -88
critical = -87

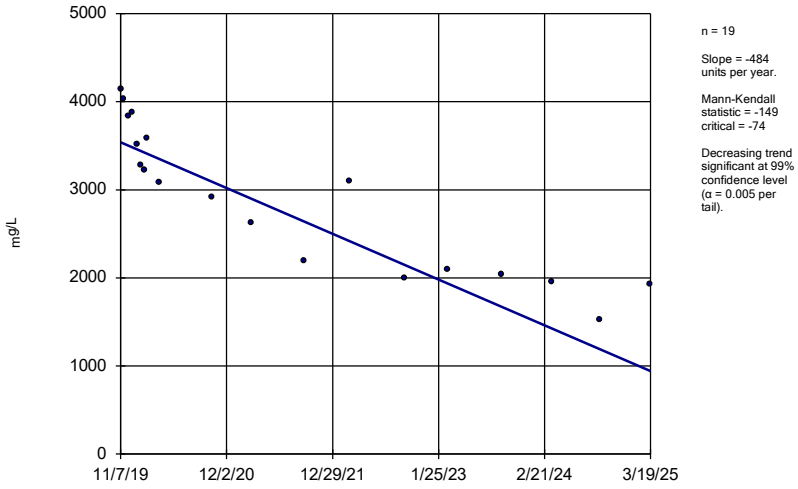
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -484 units per year.

Mann-Kendall statistic = -149
critical = -74

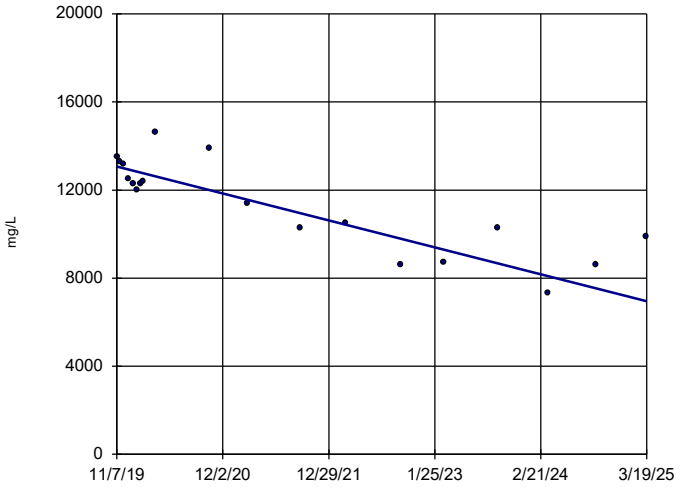
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -1139 units per year.

Mann-Kendall statistic = -109 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 2:38 PM View: Appendix III - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

Appendix IV Trend Tests - Upgradient Wells - Significant Results

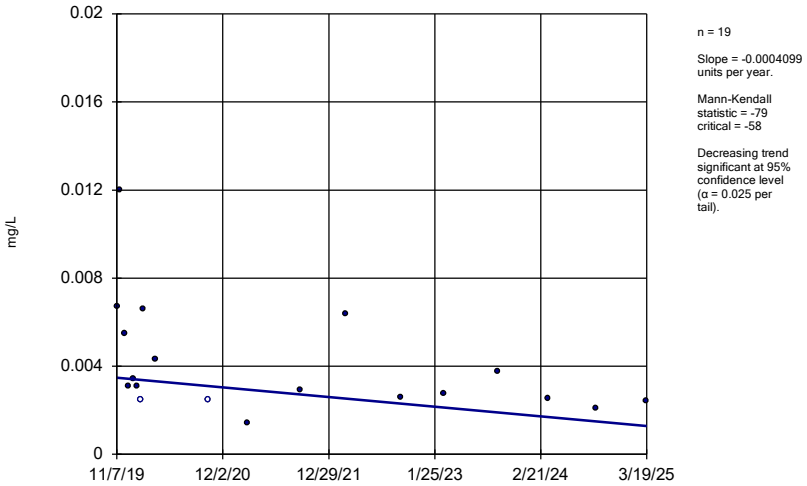
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 4:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0004099**	**-79**	**-58**	**Yes**	**19**	**10.53**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-02 (bg)**	**-0.008119**	**-166**	**-66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-19 (bg)**	**-0.01109**	**-105**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium (mg/L)	**MCM-20 (bg)**	**-0.01068**	**-135**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-11 (bg)**	**0.00003907**	**100**	**66**	**Yes**	**21**	**52.38**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-16 (bg)**	**0.00001657**	**76**	**66**	**Yes**	**21**	**38.1**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**MCM-18 (bg)**	**-0.000504**	**-144**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chromium (mg/L)	**MCM-15 (bg)**	**0.0003131**	**69**	**58**	**Yes**	**19**	**42.11**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-16 (bg)**	**0.07738**	**67**	**66**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-18 (bg)**	**-1.763**	**-115**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**MCM-20 (bg)**	**-4.017**	**-84**	**-53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lead (mg/L)	**MCM-20 (bg)**	**0.00002062**	**59**	**58**	**Yes**	**19**	**57.89**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**MCM-18 (bg)**	**-0.001853**	**-66**	**-58**	**Yes**	**19**	**26.32**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**MCM-20 (bg)**	**-0.008536**	**-62**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.0004099 units per year.

Mann-Kendall statistic = -79
critical = -58

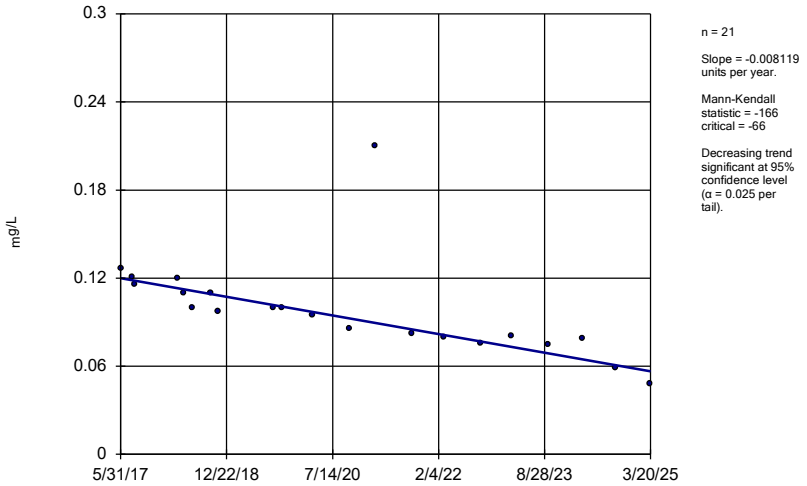
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-02 (bg)



n = 21

Slope = -0.008119 units per year.

Mann-Kendall statistic = -166
critical = -66

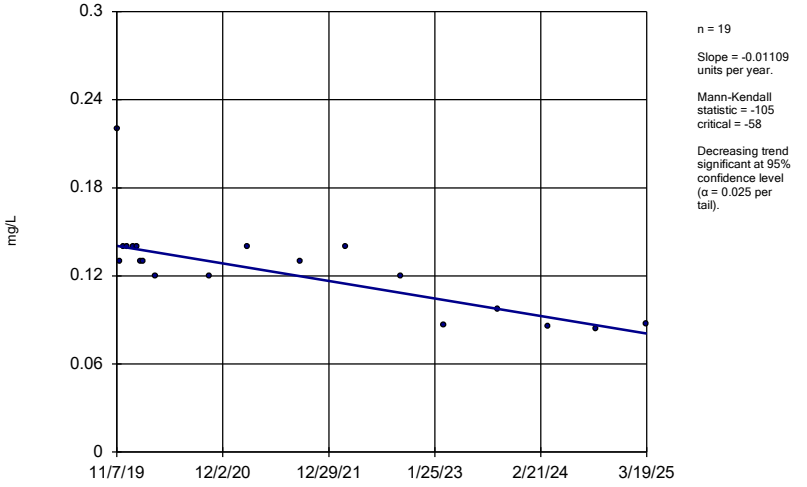
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-19 (bg)



n = 19

Slope = -0.01109 units per year.

Mann-Kendall statistic = -105
critical = -58

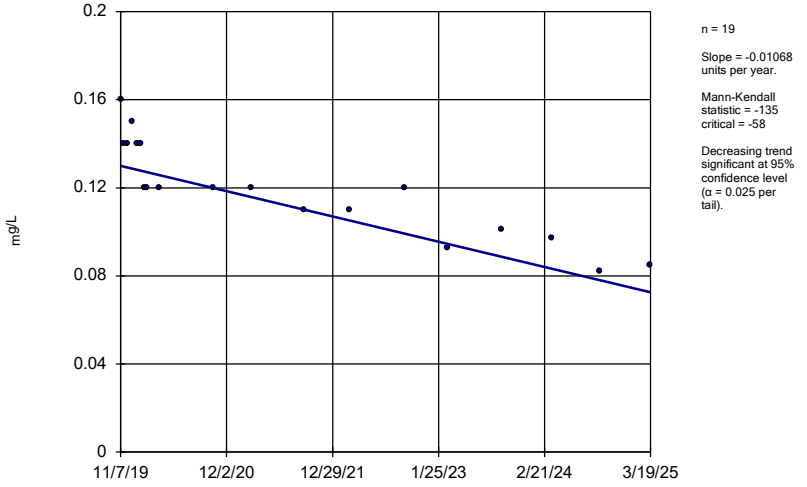
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.01068 units per year.

Mann-Kendall statistic = -135
critical = -58

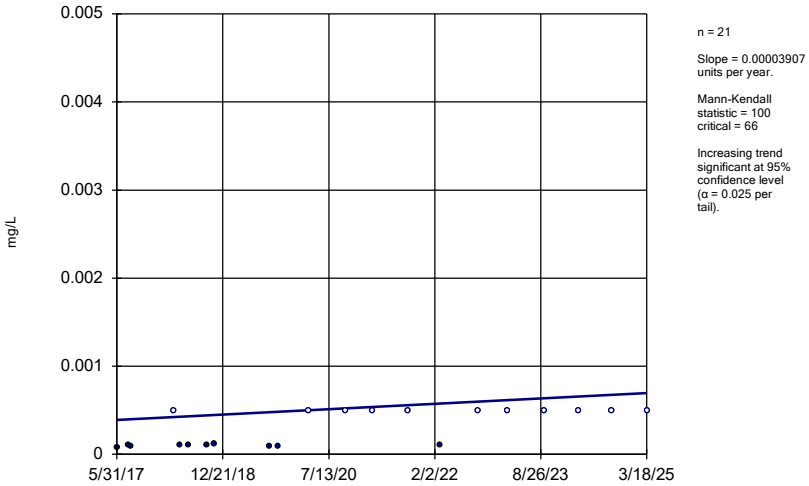
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 21

Slope = 0.00003907 units per year.

Mann-Kendall statistic = 100
critical = 66

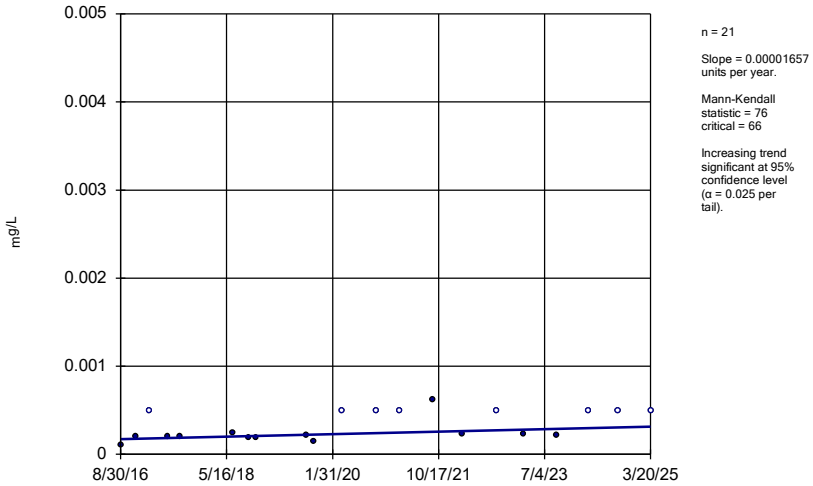
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = 0.00001657 units per year.

Mann-Kendall statistic = 76
critical = 66

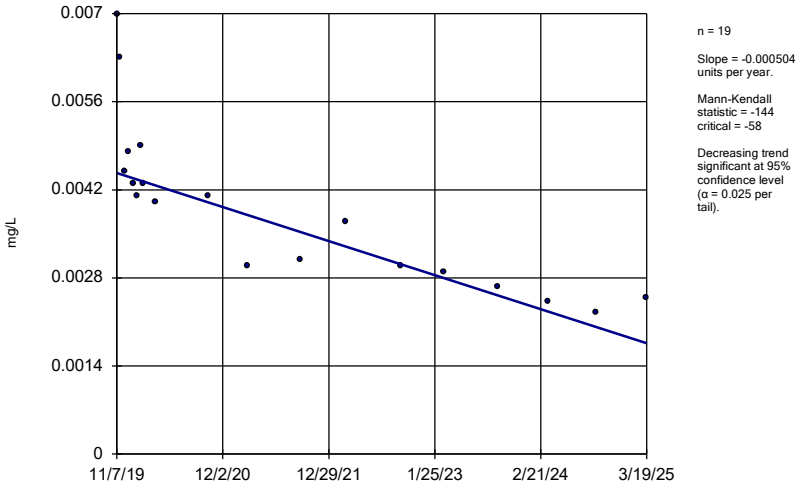
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.000504 units per year.

Mann-Kendall statistic = -144
critical = -58

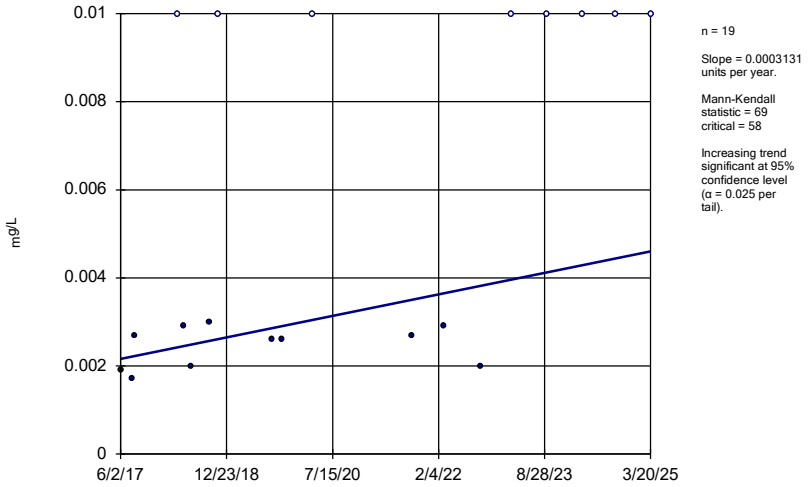
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 5/21/2025 3:58 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 19

Slope = 0.0003131 units per year.

Mann-Kendall statistic = 69
critical = 58

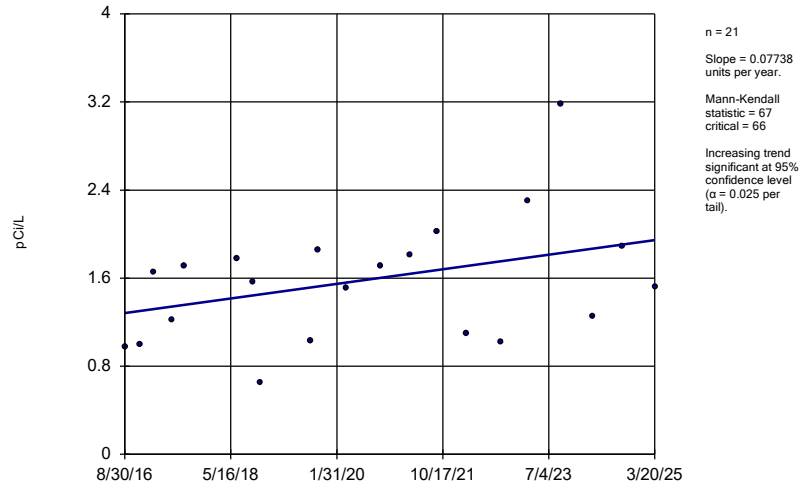
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chromium Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = 0.07738 units per year.

Mann-Kendall statistic = 67 critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

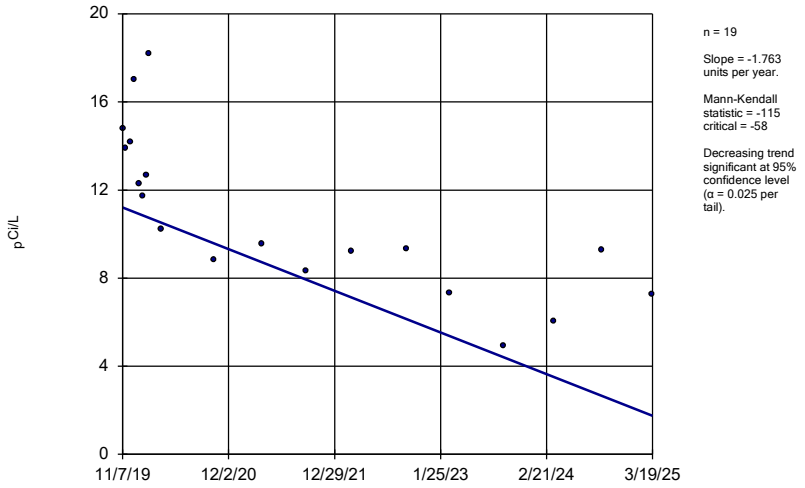
Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradie

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -1.763 units per year.

Mann-Kendall statistic = -115 critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

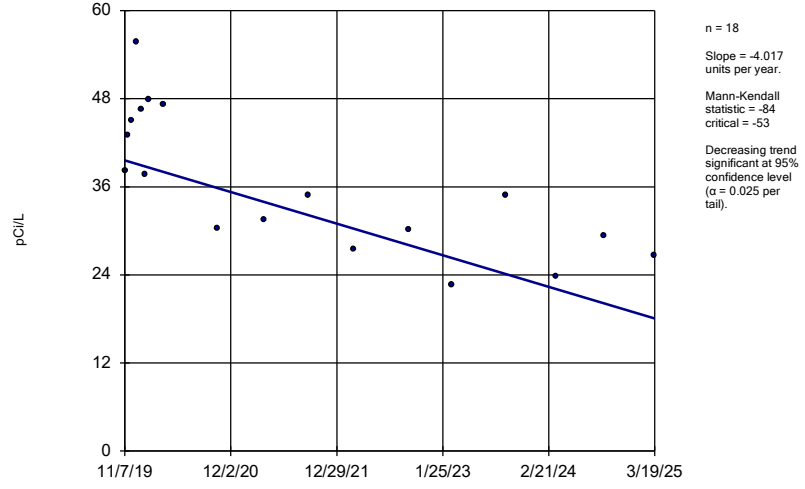
Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradie

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -4.017 units per year.

Mann-Kendall statistic = -84 critical = -53

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradie

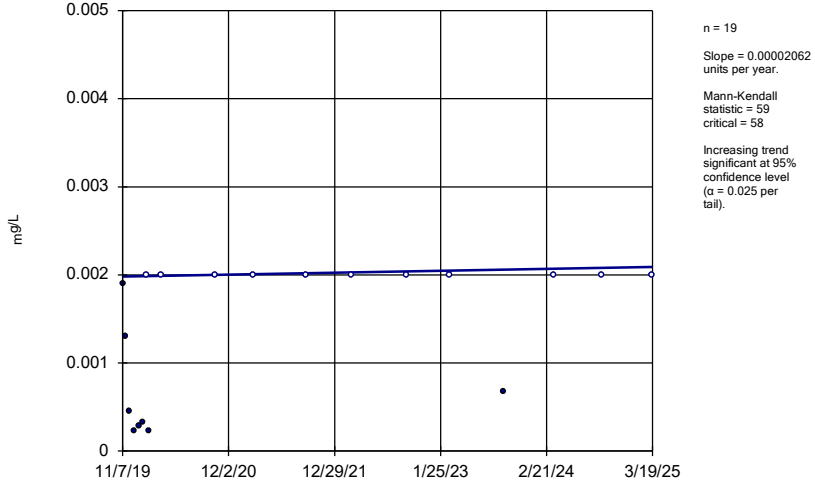
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = 0.00002062 units per year.

Mann-Kendall statistic = 59 critical = 58

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

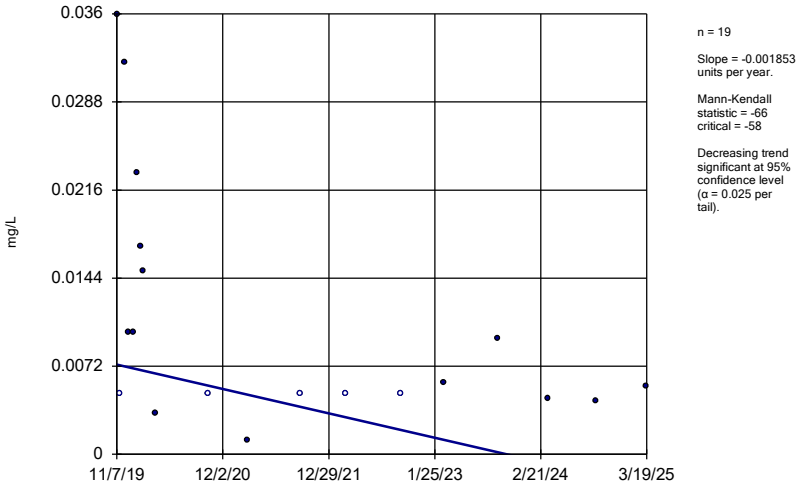
Constituent: Lead Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradient Wells

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.001853 units per year.

Mann-Kendall statistic = -66
critical = -58

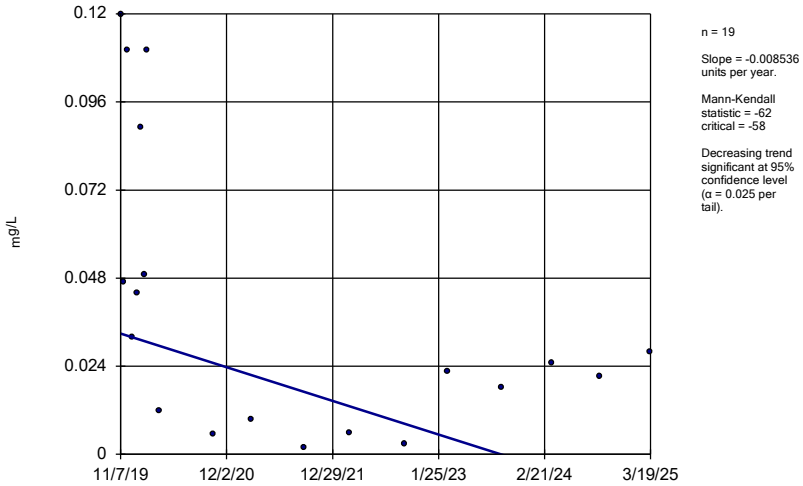
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.008536 units per year.

Mann-Kendall statistic = -62
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/21/2025 3:59 PM View: Appendix IV - Upgradient Wells
Plant McManus Client: Southern Company Data: McManus AP1

Appendix IV Trend Tests - Upgradient Wells - Truncated Results - Significant Result

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**MCM-19 (bg)**	**0.009094**	**32**	**27**	**Yes**	**11**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Upgradient Wells - Truncated Results - All Results

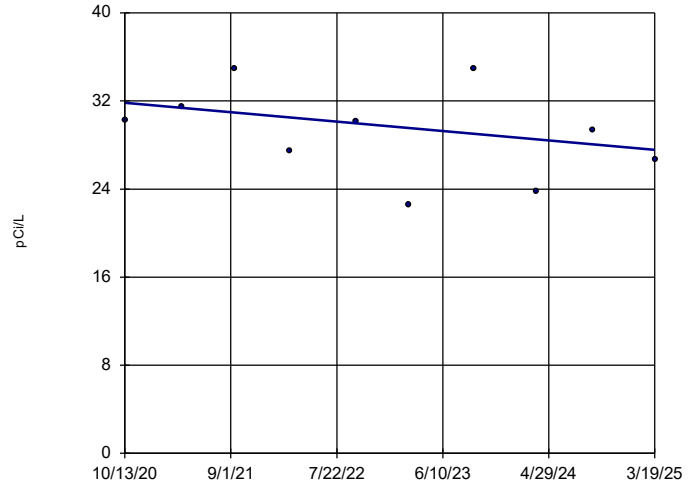
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MCM-20 (bg)	-0.9605	-14	-23	No	10	0	n/a	n/a	0.05	NP
Selenium (mg/L)	MCM-18 (bg)	0.0002404	15	27	No	11	36.36	n/a	n/a	0.05	NP
Selenium (mg/L)	**MCM-19 (bg)**	**0.009094**	**32**	**27**	**Yes**	**11**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	MCM-20 (bg)	0.003985	27	27	No	11	0	n/a	n/a	0.05	NP

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Sen's Slope Estimator

MCM-20 (bg)



n = 10

Slope = -0.9605 units per year.

Mann-Kendall statistic = -14
critical = -23

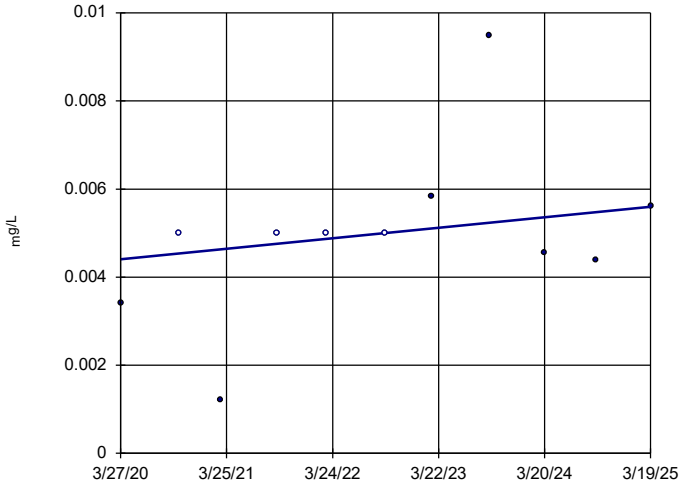
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:30 PM View: Appendix IV - Truncat
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 11

Slope = 0.0002404 units per year.

Mann-Kendall statistic = 15
critical = 27

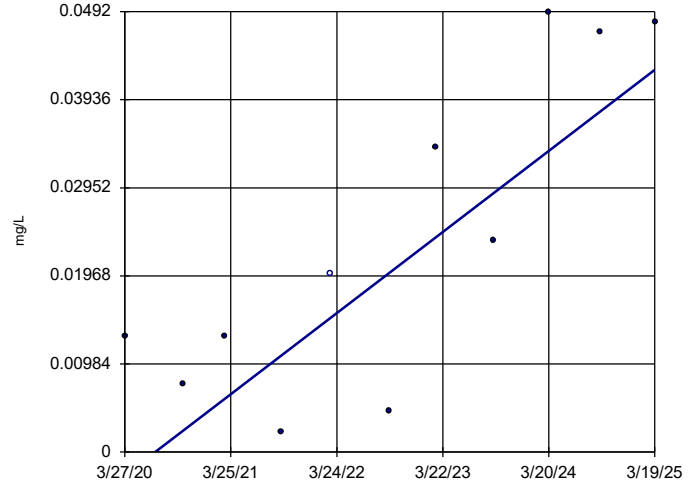
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/22/2025 12:30 PM View: Appendix IV - Truncated
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 11

Slope = 0.009094 units per year.

Mann-Kendall statistic = 32
critical = 27

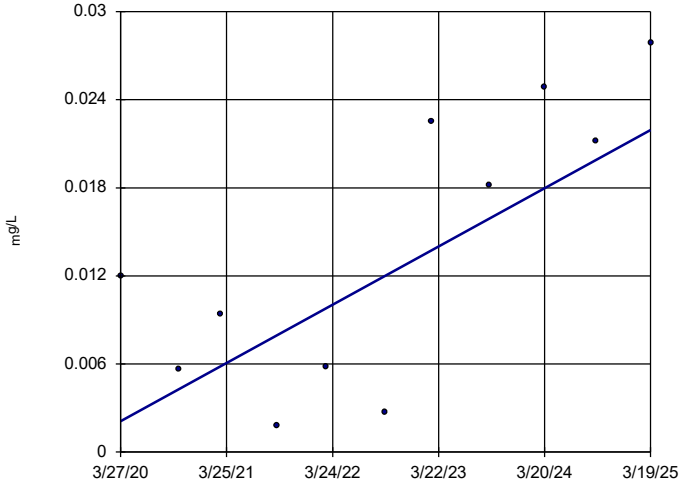
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/22/2025 12:30 PM View: Appendix IV - Truncated
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-20 (bg)



n = 11

Slope = 0.003985 units per year.

Mann-Kendall statistic = 27
critical = 27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 5/22/2025 12:30 PM View: Appendix IV - Truncated
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/17/2025**	**1.38**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/18/2025**	**1.64**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**3/19/2025**	**6.91**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**3/19/2025**	**7.07**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**3/19/2025**	**6.61**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**3/17/2025**	**6.49**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**3/17/2025**	**6.44**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**3/18/2025**	**6.59**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:13 PM

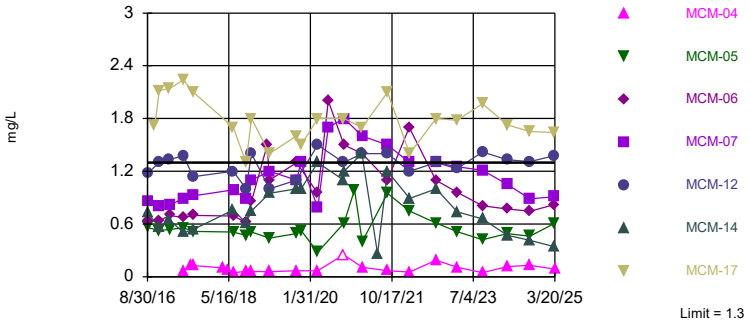
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	3/20/2025	0.0876	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	3/19/2025	0.607	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	3/19/2025	0.822	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	3/19/2025	0.911	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/17/2025**	**1.38**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	3/17/2025	0.341	No	162	n/a	n/a	6.173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/18/2025**	**1.64**	**Yes**	**162**	**n/a**	**n/a**	**6.173**	**n/a**	**n/a**	**0.00007492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	3/20/2025	6.11	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	3/19/2025	196	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	3/19/2025	198	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	3/19/2025	98.9	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	3/17/2025	4.62	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	3/17/2025	171	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	3/18/2025	72.2	No	163	n/a	n/a	0.6135	n/a	n/a	0.00007412	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	3/20/2025	45.3	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	3/19/2025	3790	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	3/19/2025	4590	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	3/19/2025	2720	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	3/17/2025	311	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	3/17/2025	3240	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	3/18/2025	2900	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	3/20/2025	0.0536J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	3/19/2025	0.557	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	3/19/2025	0.407J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	3/19/2025	0.798J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	3/17/2025	1.36	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	3/17/2025	0.273J	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	3/18/2025	1.45	No	166	n/a	n/a	48.8	n/a	n/a	0.00007174	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	3/20/2025	4.97	No	170	n/a	n/a	0	n/a	n/a	0.0001371	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**3/19/2025**	**6.91**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**3/19/2025**	**7.07**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**3/19/2025**	**6.61**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**3/17/2025**	**6.49**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**3/17/2025**	**6.44**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**3/18/2025**	**6.59**	**Yes**	**170**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001371**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	3/20/2025	41.8	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	3/19/2025	399	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	3/19/2025	549	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	3/19/2025	404	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	3/17/2025	1.83	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	3/17/2025	443	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	3/18/2025	363	No	162	n/a	n/a	0	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	3/20/2025	152	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	3/19/2025	7440	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	3/19/2025	8300	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	3/19/2025	5420	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	3/17/2025	1220	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	3/17/2025	6320	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	3/18/2025	5200	No	162	n/a	n/a	0.6173	n/a	n/a	0.00007492	NP Inter (normality) 1 of 2

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Hollow symbols indicate censored values.

Exceeds Limit: MCM-12, MCM-17

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 162 background values. 6.173% NDs. Annual per-constituent alpha = 0.001048. Individual comparison alpha = 0.00007492 (1 of 2). Comparing 7 points to limit.

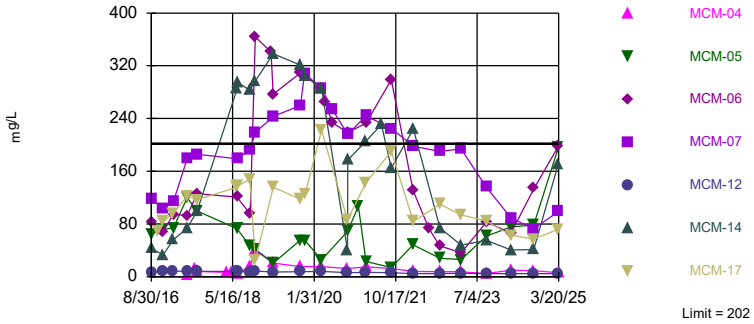
Constituent: Boron Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 163 background values. 0.6135% NDs. Annual per-constituent alpha = 0.001037. Individual comparison alpha = 0.00007412 (1 of 2). Comparing 7 points to limit.

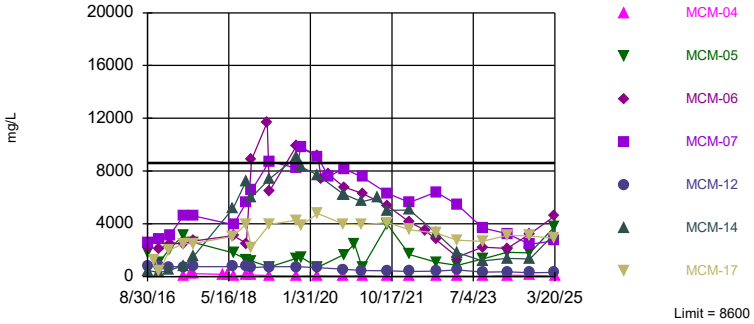
Constituent: Calcium Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 162 background values. Annual per-constituent alpha = 0.001048. Individual comparison alpha = 0.00007492 (1 of 2). Comparing 7 points to limit.

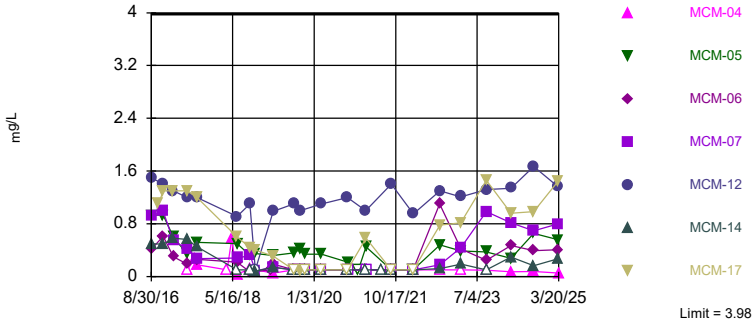
Constituent: Chloride Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 166 background values. 48.8% NDs. Annual per-constituent alpha = 0.001004. Individual comparison alpha = 0.00007174 (1 of 2). Comparing 7 points to limit.

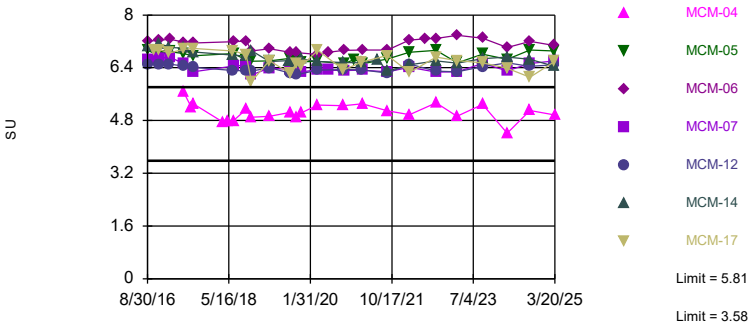
Constituent: Fluoride Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

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 170 background values. Annual per-constituent alpha = 0.001919. Individual comparison alpha = 0.0001371 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

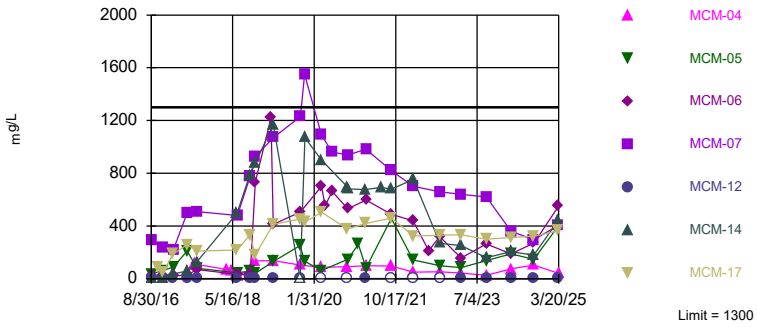
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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. Annual per-constituent alpha = 0.001048. Individual comparison alpha = 0.00007492 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

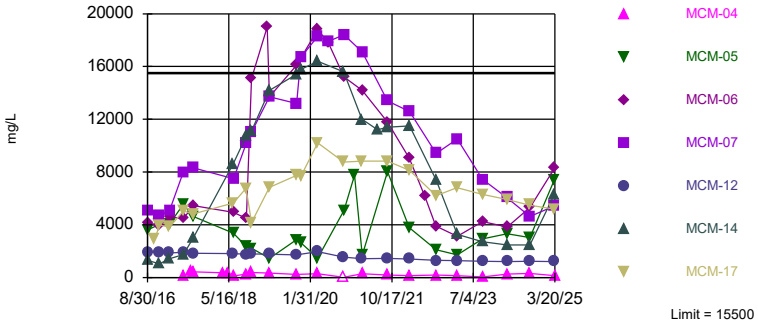
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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 162 background values. 0.6173% NDs. Annual per-constituent alpha = 0.001048. Individual comparison alpha = 0.00007492 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 5/22/2025 12:11 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	0.0325 (J)	1.18	0.726	0.0972 (J)					
8/31/2016					0.632	0.56	0.863		
10/25/2016								1.73	
11/30/2016	0.0334 (J)	1.3	0.565	0.0964	0.637	0.529	0.804	2.12	
2/15/2017	0.254	1.33	0.647	0.398				2.14	
2/16/2017					0.698	0.539	0.815		
5/31/2017		1.38	0.503					2.24	0.0521
6/1/2017	0.0564			0.0776					
6/2/2017					0.674	0.555	0.891		
8/2/2017									0.0392 (J)
8/15/2017		1.14						2.1	0.0448
8/16/2017	0.0435		0.539						
8/17/2017				0.0853	0.7	0.516	0.922		
4/4/2018									0.046
4/5/2018									
5/8/2018									0.048
5/9/2018									
6/19/2018	0.04 (J)	1.2	0.76					1.7	0.04
6/20/2018				0.079	0.69	0.51			
6/21/2018							0.99		
9/25/2018		1	0.61						0.043
9/26/2018	0.038 (J)			0.072				1.3	
9/27/2018					0.62	0.47	0.88		
11/6/2018			0.75				1.1	1.8	0.046
11/7/2018	0.037 (J)	1.4		0.074	0.86	0.51			
3/6/2019					1.5				
3/24/2019		1	0.95		1.1	0.44	1.2	1.4	
3/25/2019	0.038 (J)			0.067					0.03 (J)
10/15/2019		1.1	1						
10/16/2019	0.036 (J)			0.051		0.49		1.6	0.032 (J)
10/17/2019					1.3		1.1		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						0.53	1.3		
11/21/2019			1					1.5	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	0.064 (J)								
3/27/2020		1.5	1.3	0.088 (J)				1.8	0.058 (J)
3/28/2020					0.95	0.28 (J)	0.79		
6/16/2020					2		1.7		
10/12/2020		1.3							<0.5
10/13/2020	<0.5		1.1	<0.5				1.8	
10/14/2020			1.2		1.5		1.8		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020						0.61			
1/4/2021						0.99			
3/2/2021		1.4 (J)	1.4 (J)						
3/3/2021	<0.5			<0.5				1.7 (J)	<0.5
3/4/2021					1.4 (J)	0.4 (J)	1.6 (J)		
7/1/2021			0.26 (J)						
9/13/2021		1.4	1.2						
9/14/2021	0.079 (J)			0.071 (J)	1.1	0.95 (J)	1.5	2.1	0.06 (J)
3/1/2022					1.7	0.75 (J)			
3/2/2022	0.048 (J)						1.3		0.038 (J)
3/3/2022		1.2	0.89 (J)	0.057				1.4	
9/20/2022					1.1				
9/21/2022	0.35 (J)	1.3	1	0.12 (J)		0.61	1.3	1.8	0.17 (J)
2/28/2023		1.23						1.78	
3/1/2023	0.091			0.0669					0.0461
3/2/2023			0.738		0.961	0.511	1.25		
9/12/2023	0.101	1.42	0.657	0.0613		0.42			
9/13/2023							1.21	1.97	0.0783
9/14/2023					0.807				
3/19/2024		1.33						1.73	
3/20/2024	0.0784		0.474						0.0443
3/21/2024				0.0603	0.772	0.491	1.05		
9/10/2024		1.31						1.65	0.0483
9/11/2024	0.0753		0.415	0.0517		0.463	0.888		
9/12/2024					0.745				
3/17/2025		1.38	0.341						
3/18/2025	0.0642							1.64	0.0522
3/19/2025					0.822	0.607	0.911		
3/20/2025				0.0594					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.161					
6/1/2017		0.0608				
6/2/2017			0.0495			
8/2/2017	0.158	0.137	0.0333 (J)			
8/15/2017						
8/16/2017	0.148					
8/17/2017		0.128	0.0593			
4/4/2018		0.1	0.065			
4/5/2018	0.13					
5/8/2018		0.074	0.062			
5/9/2018	0.12					
6/19/2018	0.13		0.064			
6/20/2018		0.045				
6/21/2018						
9/25/2018						
9/26/2018	0.1		0.06			
9/27/2018		0.06				
11/6/2018		0.06				
11/7/2018	0.1		0.062 (J)			
3/6/2019						
3/24/2019						
3/25/2019	0.091	0.058	0.057			
10/15/2019		0.068	0.046			
10/16/2019	0.085					
10/17/2019						
11/7/2019				1.1	0.84	0.27
11/18/2019						0.29 (J)
11/19/2019				1.3	0.83	
11/20/2019						
11/21/2019						
12/4/2019				0.81	0.68	
12/5/2019						0.23
12/17/2019					0.57	
12/18/2019				0.77		0.23
1/8/2020				0.9	0.73	
1/9/2020						0.2
1/21/2020				0.94	0.75	0.24 (J)
2/4/2020				0.96 (J)	0.79 (J)	0.24 (J)
2/13/2020				0.88	0.74	0.22
3/26/2020						
3/27/2020	0.17 (J)		0.076 (J)	0.94	0.96	0.24 (J)
3/28/2020		0.067 (J)				
6/16/2020						
10/12/2020						0.24 (J)
10/13/2020	<0.5	<0.5	<0.5	1.1	0.73	
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
10/15/2020						
1/4/2021						
3/2/2021			<0.5			
3/3/2021	<0.5			0.91 (J)	0.79 (J)	0.21 (J)
3/4/2021		0.11 (J)				
7/1/2021						
9/13/2021						
9/14/2021	0.093 (J)	0.07 (J)	0.068 (J)	0.91 (J)	1.2	0.2 (J)
3/1/2022				0.87 (J)	0.41 (J)	
3/2/2022	0.086		0.054			0.23 (J)
3/3/2022		0.053				
9/20/2022				0.9	0.77	0.18 (J)
9/21/2022	0.23 (J)	0.19 (J)	0.14 (J)			
2/28/2023				0.723	0.707	0.185
3/1/2023	0.115	0.108				
3/2/2023			0.0416			
9/12/2023			0.0393			
9/13/2023		0.047		1.02	1.2	
9/14/2023	0.102					0.229
3/19/2024	0.0924				0.704	0.185
3/20/2024		0.116	0.0531			
3/21/2024				0.864		
9/10/2024		0.131				
9/11/2024	0.0875		0.035	0.841	0.61	0.172
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				0.751	0.684	0.175
3/20/2025	0.0922	0.0876	0.0644			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-07	MCM-06	MCM-17	MCM-02 (bg)
8/30/2016	7.3	4.02	42.8	7.05					
8/31/2016					65	119	82.8		
10/25/2016								69.4	
11/30/2016	10.8	4.87	33.2	8.69	71.7	103	68.7	83.9	
2/15/2017	14.3	6.61	56.1	8.34				96.3	
2/16/2017					74	114	94.8		
5/31/2017			73.6	8.85				122	5.9
6/1/2017	12.7 (J)	6.42							
6/2/2017					120	179	92.5		
8/2/2017									4.69
8/15/2017				8.05				117	
8/16/2017	8.7		99.6						5.25
8/17/2017		5.62			100	186	126		
4/4/2018									
4/5/2018									5
5/8/2018									
5/9/2018									4.7
6/19/2018	11.6 (J)		285	8.3				136	4.8
6/20/2018		5.7			72.8		121		
6/21/2018						179			
6/28/2018	13		294	8.9				138	
9/25/2018			283	6.8					
9/26/2018	12.8 (J)	5.3						148	4.6
9/27/2018					46.6	193	95.1		
11/6/2018			297			219		24.7	
11/7/2018	11.9	5.3		8.5	41.8		364		4.6
3/6/2019							341		
3/24/2019			338	7.4	20.9 (J)	243	277	136	
3/25/2019	12.6 (J)	5.7							4.7
10/15/2019			321	7.9					
10/16/2019	13.6	4.8			55.2			118	4.9
10/17/2019						260	309		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					55.8	308			
11/21/2019			305					125	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	10.1								
3/27/2020		5.4	286	8.3				222	4.9
3/28/2020					25.8	286	286		
4/23/2020							266		
6/16/2020						254	234		
10/12/2020				6.1					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-07	MCM-06	MCM-17	MCM-02 (bg)
10/13/2020	9.8	5.7	40.9					86.4	3.8
10/14/2020			177			216	219 (D)		
10/15/2020					69.1				
1/4/2021					107				
3/2/2021			205	6.5					
3/3/2021	14	11.2						143	4
3/4/2021					23.4	244	233		
7/1/2021			231						
9/13/2021			165	6					
9/14/2021	9.6	6.5			13.9	225	299	190	4.2
3/1/2022					48.4		131		
3/2/2022	8.2					198			4.1
3/3/2022		5.4	224	4.6				84	
6/28/2022							73.5		
9/20/2022							47		
9/21/2022	9.2	4.6	74	4.7	28	190		110	4.3
2/28/2023				5.17				94.2	
3/1/2023	7.87	4.74							5.26
3/2/2023			48		25.9	194	36.1		
9/12/2023	10.1	4.48	55.3	4.98	61.5				
9/13/2023						136		84.6	
9/14/2023							83.1		6.64
3/19/2024				4.99				63.2	4.73
3/20/2024	11.3		40.6						
3/21/2024		5.32			75.5	89.1	66.6		
9/10/2024				4.67				57.2	
9/11/2024	9.6	5.49	41.3		78.5	72.5			5.36
9/12/2024							134		
3/17/2025			171	4.62					
3/18/2025	9.39							72.2	
3/19/2025					196	98.9	198		
3/20/2025		6.41							6.94

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	18.6					
6/1/2017		3.65				
6/2/2017			2.77			
8/2/2017	18.5	12.4	1.27			
8/15/2017	4.09					
8/16/2017						
8/17/2017		8.17	5.53			
4/4/2018	<25	6.8	6.5			
4/5/2018						
5/8/2018	18.4 (J)	5.7	6.7			
5/9/2018						
6/19/2018	4.3		7.4			
6/20/2018		4.3				
6/21/2018						
6/28/2018						
9/25/2018	6.2					
9/26/2018			8.5 (J)			
9/27/2018		16.4 (J)				
11/6/2018	1.8	39.5				
11/7/2018			9.8			
3/6/2019						
3/24/2019						
3/25/2019	2.5	20.8 (J)	7.8			
10/15/2019		15.5	6.7			
10/16/2019	2.2					
10/17/2019						
11/7/2019				46.2	163	158
11/18/2019				41.8		
11/19/2019					169	152
11/20/2019						
11/21/2019						
12/4/2019					140	142
12/5/2019				40.5		
12/17/2019						136
12/18/2019				42	145	
1/8/2020					157	147
1/9/2020				37.1		
1/21/2020				40.1	152	167
2/4/2020				36.2	139	142
2/13/2020				38.9	146	148
3/26/2020						
3/27/2020	3.3		5.9	23.2	113	122
3/28/2020		15.5				
4/23/2020						
6/16/2020						
10/12/2020	2.8			19.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/13/2020		12.5	0.83		128	125
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			1.4			
3/3/2021	2.1			26	110	123
3/4/2021		15.1				
7/1/2021						
9/13/2021						
9/14/2021	14	12.5	6.7	18.8	61.1	93.6
3/1/2022					99.8	35.5
3/2/2022	6.8		7.2	22.3		
3/3/2022		8				
6/28/2022						
9/20/2022				20	100	150
9/21/2022	7.6	7.8	0.83			
2/28/2023				22.5	104	150
3/1/2023	6.53	7.75				
3/2/2023			1.41			
9/12/2023			0.953			
9/13/2023	20.7	4.93			108	202
9/14/2023				21.1		
3/19/2024				19.7		138
3/20/2024	9.1	10.1	4.88			
3/21/2024					102	
9/10/2024	6.36	9.06				
9/11/2024			0.928	15.3	87.8	127
9/12/2024						
3/17/2025						
3/18/2025	3.66					
3/19/2025				17.9	92.4	139
3/20/2025		6.11	4.54			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	9.7	26	450	800					
8/31/2016					1800	2200	2600		
10/25/2016								1300	
11/30/2016	19	27	310	760	1100	2100	2800	400	
2/15/2017	21	30	490	740				2000	
2/16/2017					2100	2500	3100		
5/31/2017			820	740				2500	98
6/1/2017	12	27							
6/2/2017					3100	2500	4600		
8/2/2017									57
8/15/2017				750				2500	15
8/16/2017	14		1500						
8/17/2017		32			2600	2700	4600		
4/4/2018									69
4/5/2018									
5/8/2018									72.3
5/9/2018									
6/19/2018	24.4		5180	760				3050	17.3
6/20/2018		30			1800	3100			
6/21/2018							3920		
9/25/2018			7220	752					31.3
9/26/2018	23.4	28.4						3965 (D)	
9/27/2018					1300	2510	5660		
11/6/2018			6020				6520	2230	9.8
11/7/2018	21.8	25.1		665	1180	8860			
3/6/2019						11700			
3/24/2019			7400	744	717	6470	8720	3960	
3/25/2019	19.4	21.8							12.9
10/15/2019			9050	744					
10/16/2019	21.4	20			1390			4260	12.2
10/17/2019						9930	8210		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1480		9810		
11/21/2019			8330					3890	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	23								
3/27/2020		23.6	7680	675				4770	14.5
3/28/2020					693	9190	9070		
4/23/2020						7390			
6/16/2020						7760	7580		
10/12/2020				552					13.9
10/13/2020	13.5	23.3	6230					3980	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/14/2020			6230			6780 (D)	8170		
10/15/2020					1660				
1/4/2021					2460				
3/2/2021			5680	459					
3/3/2021	13.6	27.6						3920	9.4
3/4/2021					652	6310	7540		
7/1/2021			5960						
9/13/2021			5010	433					
9/14/2021	16.7	30			3940	5360	6300	4090	62.8
3/1/2022					1680	4150			
3/2/2022	13.4						5630		28.4
3/3/2022		26.5	5040	394				3540	
6/28/2022						3520			
9/20/2022						2800			
9/21/2022	17	17	3300	400	1100		6400	3300	32
2/28/2023				518				2770	
3/1/2023	14.9	14.2							17.7
3/2/2023			1810		853	1470	5450		
9/12/2023	10.7	13.3	1180	326	1330				
9/13/2023							3690	2660	98.5
9/14/2023						2220			
3/19/2024				361				3130	
3/20/2024	10.8		1390						32.1
3/21/2024		11.5			1830	2120	3240		
9/10/2024				297				3080	11.2
9/11/2024	9.34	9.65	1320		1800		2440		
9/12/2024						3240			
3/17/2025			3240	311					
3/18/2025	11.9							2900	4.51
3/19/2025					3790	4590	2720		
3/20/2025		8.86							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	39					
6/1/2017		22				
6/2/2017			11			
8/2/2017	42	230	3.2			
8/15/2017						
8/16/2017	41					
8/17/2017		210	12			
4/4/2018		156	13.4			
4/5/2018	40.2					
5/8/2018		140	13.2			
5/9/2018	40.6					
6/19/2018	37.7		13.7			
6/20/2018		27.5				
6/21/2018						
9/25/2018						
9/26/2018	33.4		18.5			
9/27/2018		101				
11/6/2018		107				
11/7/2018	30.7		20.2			
3/6/2019						
3/24/2019						
3/25/2019	33.5	78.5	19.7			
10/15/2019		46	17.1			
10/16/2019	33.1					
10/17/2019						
11/7/2019				7880	2360	6170
11/18/2019					6970	
11/19/2019				8130		5650
11/20/2019						
11/21/2019						
12/4/2019				7410		6100
12/5/2019					2130	
12/17/2019						5660
12/18/2019				7170	2090	
1/8/2020				6480		5070
1/9/2020					1750	
1/21/2020				6000	1630	5010
2/4/2020				5700	1760	5030
2/13/2020				7060	1850	6140
3/26/2020						
3/27/2020	32.9		14.1	7110	1450	6870
3/28/2020		71.4				
4/23/2020						
6/16/2020						
10/12/2020					1340	
10/13/2020	25.7	54.4	3.8	5980		5260

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			4.2			
3/3/2021	20.5			5500	1230	5170
3/4/2021		69.6				
7/1/2021						
9/13/2021						
9/14/2021	21.8	28.5	13.6	5100	1020	7250
3/1/2022				4900		1870
3/2/2022	20.6		14.3		1420	
3/3/2022		12.2				
6/28/2022						
9/20/2022				5700	1200	6200
9/21/2022	23	47	3.3			
2/28/2023				7930	1250	5760
3/1/2023	21.8	45.6				
3/2/2023			4.88			
9/12/2023			3.49			
9/13/2023		10.4		5250		8600
9/14/2023	21.1				1190	
3/19/2024	20				1100	5460
3/20/2024		82.3	13.5			
3/21/2024				4980		
9/10/2024		100				
9/11/2024	16.4		3.34	4420	856	4880
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				4320	992	5330
3/20/2025	13.1	45.3	10.6			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	0.03 (J)	1.5	0.04 (J)	0.5					
8/31/2016					0.92	0.41	0.93		
10/25/2016								1.1	
11/30/2016	0.04 (J)	1.4	0.18 (J)	0.49	0.99	0.61	0.93	1.3	
2/15/2017	0.007 (J)	1.3	0.02 (J)	0.58				1.3	
2/16/2017					0.54	0.3 (J)	0.6		
5/31/2017		1.2		0.56				1.3	0.85
6/1/2017	<0.1		0.005 (J)						
6/2/2017					0.42	0.19 (J)	0.34		
8/2/2017									0.69
8/15/2017		1.2						1.2	0.29 (J)
8/16/2017	0.03 (J)			0.45					
8/17/2017			0.04 (J)		0.27 (J)	0.26 (J)	0.52		
4/4/2018									0.32
4/5/2018									
5/8/2018									0.63
5/9/2018									
6/19/2018	<0.1	0.91		<0.1				0.6	0.17 (J)
6/20/2018			0.038 (J)			0.22 (J)	0.5		
6/21/2018					0.28 (J)				
9/25/2018		1.1		<0.1					0.15 (J)
9/26/2018	0.12 (J)		<0.1					0.44 (D)	
9/27/2018					0.32	0.068 (J)	0.32		
11/6/2018				0.084 (J)	0.086 (J)			0.4	<0.1
11/7/2018	<0.1	<0.1	<0.1			10.3 (O)	0.35		
3/6/2019						<0.1			
3/24/2019		0.99		0.14 (J)	0.14 (J)	0.19 (J)	0.32	0.31	
3/25/2019	0.038 (J)		0.041 (J)						0.12 (J)
8/26/2019				<0.1					
8/27/2019	<0.1	1.1	<0.1					<0.1	
8/28/2019					<0.1	<0.1	0.36		0.068 (J)
10/15/2019		1		<0.1					
10/16/2019	0.046 (J)		0.044 (J)				0.41	0.083 (J)	0.1 (J)
10/17/2019					<0.1	<0.1			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					<0.1		0.34		
11/21/2019				<0.1				<0.1	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	<0.1								
3/27/2020		1.1	<0.1	<0.1				<0.1	0.066 (J)
3/28/2020					<0.1	<0.1	0.34		
10/12/2020		1.2							<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	<0.1		<0.1	<0.1				<0.1	
10/14/2020					<0.1	<0.1			
10/15/2020							0.22		
1/4/2021							<0.1		
3/2/2021		1		<0.1					
3/3/2021	<0.1		<0.1					0.58 (J)	0.082 (J)
3/4/2021					<0.1	<0.1	0.45		
7/1/2021				<0.1					
9/13/2021		1.4		<0.1					
9/14/2021	<0.1		<0.1		<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022						<0.1	<0.1		
3/2/2022	<0.1				<0.1				0.097 (J)
3/3/2022		0.95	<0.1	<0.1				<0.1	
9/20/2022						1.1 (J)			
9/21/2022	<0.1	1.3	<0.1	0.12	0.18		0.48	0.78	0.11
2/28/2023		1.21						0.815	
3/1/2023	<0.1		0.0397 (J)						0.101
3/2/2023				0.188 (J)	0.44 (J)	0.419 (J)	0.388		
9/12/2023	<0.1	1.32	<0.1	<0.1			0.374		
9/13/2023					0.982			1.46	0.362
9/14/2023						0.246 (J)			
3/19/2024		1.34						0.959 (J)	
3/20/2024	0.0748 (J)			0.294 (J)					0.206
3/21/2024			0.0585 (J)		0.814 (J)	0.469 (J)	0.277		
9/10/2024		1.67						0.986 (J)	0.202
9/11/2024	0.0669 (J)		<0.1	0.164 (J)	0.692		0.654		
9/12/2024						0.392 (J)			
3/17/2025		1.36		0.273 (J)					
3/18/2025	0.0534 (J)							1.45	0.0773 (J)
3/19/2025					0.798 (J)	0.407 (J)	0.557		
3/20/2025			<0.1						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.01 (J)					
6/1/2017		<0.1				
6/2/2017			<0.1			
8/2/2017	0.14 (J)	0.27 (J)	0.05 (J)			
8/15/2017						
8/16/2017	0.13 (J)					
8/17/2017		0.18 (J)	<0.1			
4/4/2018		<0.1	<0.1			
4/5/2018	<0.1					
5/8/2018		0.56	<0.1			
5/9/2018	<0.1					
6/19/2018	0.065 (J)		0.057 (J)			
6/20/2018		0.033 (J)				
6/21/2018						
9/25/2018						
9/26/2018	<0.1		<0.1			
9/27/2018		0.12 (J)				
11/6/2018		<0.1				
11/7/2018	<0.1		<0.1			
3/6/2019						
3/24/2019						
3/25/2019	0.039 (J)	0.055 (J)	0.036 (J)			
8/26/2019						
8/27/2019		<0.1	<0.1			
8/28/2019	<0.1					
10/15/2019		0.095 (J)	0.14 (J)			
10/16/2019	0.044 (J)					
10/17/2019						
11/7/2019				<0.1	1.4	0.49
11/18/2019						0.52
11/19/2019				0.033 (J)	1.2	
11/20/2019						
11/21/2019						
12/4/2019				0.22 (J)	1.4	
12/5/2019						0.5
12/17/2019				<0.1		
12/18/2019					1.5	0.33
1/8/2020				<0.1	<0.1	
1/9/2020						0.12 (J)
1/21/2020				0.11 (J)	0.53	0.13 (J)
2/4/2020				<0.1	<0.1	0.18 (J)
2/13/2020				<0.1	<0.1	0.077 (J)
3/26/2020						
3/27/2020	<0.1		<0.1	<0.1	<0.1	0.06 (J)
3/28/2020		<0.1				
10/12/2020						0.34

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/13/2020	<0.1	<0.1	<0.1	<0.1	<0.1	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			<0.1			
3/3/2021	<0.1			<0.1	<0.1	0.32
3/4/2021		<0.1				
7/1/2021						
9/13/2021						
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022				<0.1	<0.1	
3/2/2022	<0.1		<0.1			<0.1
3/3/2022		<0.1				
9/20/2022				<0.1	4.3 (JO)	0.61 (J)
9/21/2022	<0.1	<0.1	<0.1			
2/28/2023				0.38 (J)	3.32	0.407 (J)
3/1/2023	<0.1	<0.1				
3/2/2023			0.0397 (J)			
9/12/2023			<0.1			
9/13/2023		0.0941 (J)		<0.1	3.98	
9/14/2023	<0.1					0.251 (J)
3/19/2024	<0.1			1.2 (J)		0.702
3/20/2024		0.0744 (J)	<0.1			
3/21/2024					3.79	
9/10/2024		0.0749 (J)				
9/11/2024	<0.1		<0.1	0.743 (J)	2.83	0.267
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				0.831 (J)	2.94	0.564
3/20/2025	<0.1	0.0536 (J)	<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-02 (bg)
8/30/2016	5.66	6.49	7.04	5.18					
8/31/2016					7.21	6.66	6.93		
10/25/2016								6.95	
11/30/2016	5.36	6.5	7.13	4.96	7.23	6.69	6.77	6.95	
2/15/2017	5.25	6.51	7.02	5.13				6.85	
2/16/2017					7.27	6.72	6.89		
5/31/2017		6.45	7					6.96	5.06
6/1/2017	5.59			4.99					
6/2/2017					7.18	6.53	6.83		
8/2/2017									5
8/15/2017		6.41						6.99	
8/16/2017	5.58		6.88						4.98
8/17/2017				4.68	7.15	6.28	6.76		
4/4/2018									
4/5/2018									5.02
5/8/2018									
5/9/2018									4.96
6/19/2018	5.51	6.32	6.78					6.91	5.02
6/20/2018				4.77	7.19		6.83		
6/21/2018						6.45			
9/25/2018		6.31	6.75						
9/26/2018	5.32			4.65				6.8	5.06
9/27/2018					7.21	6.48	6.64		
11/6/2018			6.92			6.18		5.99	
11/7/2018	5.72	6.3		4.99	6.91		6.6		5.03
3/24/2019		6.4	6.59		6.98	6.39	6.61	6.62	
3/25/2019	5.75			5.13					5.08
8/26/2019			6.62						
8/27/2019	5.58	6.24		4.88				6.23	
8/28/2019					6.87	6.35	6.69		4.99
10/15/2019		6.19	6.58						
10/16/2019	5.72			4.89			6.64	6.54	4.98
10/17/2019					6.86	6.4			
11/7/2019									
11/18/2019									
11/19/2019									5.11
11/20/2019	5.77					6.27	6.58		
11/21/2019			6.67					6.44	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	5.45								
3/27/2020		6.33	6.59	5.12				6.93	5.12
3/28/2020					6.8	6.35	6.6		
6/16/2020					6.87	6.33			
10/12/2020		6.35							

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-02 (bg)
10/13/2020	5.69		6.56	5.17				6.34	5.03
10/14/2020					6.93	6.32			
10/15/2020							6.52		
1/4/2021							6.66		
3/2/2021		6.34	6.55						
3/3/2021	5.81			5.71				6.58	5.06
3/4/2021					6.94	6.33	6.52		
7/1/2021			6.64						
9/13/2021		6.24	6.3						
9/14/2021	5.13			4.69	6.94	6.28	6.67	6.77	5.04
3/1/2022					7.24		6.87		
3/2/2022	5.32					6.41			5.16
3/3/2022		6.51	6.49	4.88				6.26	
6/28/2022					7.28				
9/20/2022					7.29				
9/21/2022	4.95	6.3	6.61	4.91		6.27	6.93	6.72	5.14
2/28/2023		6.28						6.62	
3/1/2023	4.91			4.76					5.1 (D)
3/2/2023			6.54 (D)		7.38	6.28	6.55		
9/12/2023	4.54	6.43	6.68	4.45			6.81		
9/13/2023						6.53		6.55	
9/14/2023					7.3				5.02
3/19/2024		6.55						6.38	4.62
3/20/2024	5.04		6.72						
3/21/2024				5.1	7.02	6.31	6.66		
9/10/2024		6.44						6.11	
9/11/2024	5.01		6.66	5.41		6.53	6.94		5.43
9/12/2024					7.2				
3/17/2025		6.49	6.44						
3/18/2025	5.14							6.59	
3/19/2025					7.07	6.61	6.91		
3/20/2025				5.52					5.6

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.29					
6/1/2017		5.68				
6/2/2017			5.31			
8/2/2017	5.19	5.2	5.05			
8/15/2017	5.19					
8/16/2017						
8/17/2017		5.31	5.52			
4/4/2018	5.19	4.74	5.45			
4/5/2018						
5/8/2018	5.3	4.78	5.54			
5/9/2018						
6/19/2018	5.15		5.6			
6/20/2018		4.79				
6/21/2018						
9/25/2018	5.13					
9/26/2018			5.17			
9/27/2018		5.14				
11/6/2018	5.08	4.9				
11/7/2018			5.47			
3/24/2019			5.4			
3/25/2019	5.05	4.93	5.4			
8/26/2019						
8/27/2019		5.05	5.35			
8/28/2019	4.87					
10/15/2019		4.89	5.32			
10/16/2019	5.05					
10/17/2019						
11/7/2019				4.25	5.21	3.79
11/18/2019				4.12		
11/19/2019					5.15	3.78
11/20/2019		5.03				
11/21/2019						
12/4/2019					5.28	3.87
12/5/2019				4.17		
12/17/2019					4.96	
12/18/2019				4.2		3.76
1/8/2020					5.04	3.77
1/9/2020				4.19		
1/21/2020				4.28	5.1	3.73
2/4/2020				4.26	5.15	3.72
2/13/2020				4.2	5.07	3.75
3/26/2020						
3/27/2020	5.09		5.3	4.34	5.14	3.81
3/28/2020		5.27				
6/16/2020						
10/12/2020	5			4.29		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/13/2020		5.25	5.02		5.04	3.72
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			5.16			
3/3/2021	5.37			4.37	5.1	3.76
3/4/2021		5.31				
7/1/2021						
9/13/2021						
9/14/2021	5.5	5.09	5.39	4.28	5.31	3.72
3/1/2022					5.38	3.69
3/2/2022	5.11		5.37	4.33		
3/3/2022		4.98				
6/28/2022						
9/20/2022				4.47	5.14	3.63
9/21/2022	4.97	5.34	5.23			
2/28/2023				4.42	5.08	3.7 (D)
3/1/2023	4.78	4.93				
3/2/2023			4.45			
9/12/2023			4.4			
9/13/2023	4.92	5.29			5.05	3.67
9/14/2023				4.17		
3/19/2024				4.42	4.97	
3/20/2024	4.18	4.41	5.23			
3/21/2024						3.67
9/10/2024	5.19	5.1				
9/11/2024			4.99	4.04	4.61	3.58
9/12/2024						
3/17/2025						
3/18/2025	5.06					
3/19/2025				4.49	5.16	3.83
3/20/2025		4.97	5.34			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	17	24	6.4	4.3					
8/31/2016					37	21	290		
10/25/2016								84	
11/30/2016	33	26	4.5	7.6	63	19	240	52	
2/15/2017	83	30	37	3				190	
2/16/2017					90	22	220		
5/31/2017			61	2.5				260	40
6/1/2017	51	24							
6/2/2017					210	28	500		
8/2/2017									34
8/15/2017				3.2				210	24
8/16/2017	36		130						
8/17/2017		26			80	69	510		
4/4/2018									33.9
4/5/2018									
5/8/2018									35.7
5/9/2018									
6/19/2018	50.3		498	1.6				218	23.7
6/20/2018		31.2			46 (J)	33			
6/21/2018							481		
9/25/2018			790	1					25.6
9/26/2018	54.1	36.8						333 (D)	
9/27/2018					58.5 (J)	29.4	777		
11/6/2018			875				926	182	25.2
11/7/2018	45.6	35		0.41 (J)	41.3 (J)	734			
3/6/2019						1220 (J)			
3/24/2019			1170	1.5	131	413	1070	413	
3/25/2019	43	40.1							24.9
10/15/2019			<5	0.54 (J)					
10/16/2019	31.9	28.5			252			453	17.4
10/17/2019						507	1230		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					132		1550		
11/21/2019			1070					428	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	36.2								
3/27/2020		31.2	899	<5				504	23.4
3/28/2020					63.8	701	1090		
4/23/2020						552			
6/16/2020						663	961		
10/12/2020				<5					19.3
10/13/2020	32.3	26.8	695					378	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-14	MCM-12	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/14/2020			682			531 (D)	938		
10/15/2020					147				
1/4/2021					262				
3/2/2021			677	1.2					
3/3/2021	33.8	30.5						420	19.9
3/4/2021					82.2	596	982		
7/1/2021			693						
9/13/2021			680	<5					
9/14/2021	34.2	24.4			459	490	819	460	33.1
3/1/2022					143	440			
3/2/2022	30.8						702		19.5
3/3/2022		20.4	754	<5				324	
6/28/2022						213			
9/20/2022						320			
9/21/2022	39	24	270	<5	100		660	330	23
2/28/2023				1.33				334	
3/1/2023	45.3	25.8							21.4
3/2/2023			252		84.2	157	640		
9/12/2023	47.5	25.2	160	1.18	139				
9/13/2023							620	300	42
9/14/2023						263			
3/19/2024				1.7				312	
3/20/2024	45.4		207						34.5
3/21/2024		29.4			189	189	360		
9/10/2024				0.462				323	24.3
9/11/2024	42.1	23.2	180		148		296		
9/12/2024						271			
3/17/2025			443	1.83					
3/18/2025	30.4							363	26
3/19/2025					399	549	404		
3/20/2025		21.9							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	46					
6/1/2017		42				
6/2/2017			13			
8/2/2017	43	120	14			
8/15/2017						
8/16/2017	41					
8/17/2017		110	14			
4/4/2018		70.6	13.4			
4/5/2018	33.4					
5/8/2018		61.4	14.8			
5/9/2018	36					
6/19/2018	35.5		15.5			
6/20/2018		25.3				
6/21/2018						
9/25/2018						
9/26/2018	39.6		23			
9/27/2018		63.4				
11/6/2018		136				
11/7/2018	35.8		22.2			
3/6/2019						
3/24/2019						
3/25/2019	34.2	137	22.4			
10/15/2019		105	17.9			
10/16/2019	24.4					
10/17/2019						
11/7/2019				1010	379	832
11/18/2019					737	
11/19/2019				1140		795
11/20/2019						
11/21/2019						
12/4/2019				1020		810
12/5/2019					351	
12/17/2019						535
12/18/2019				444 (J)	274	
1/8/2020				747		603
1/9/2020					254	
1/21/2020				798	254	611
2/4/2020				1120	432	599
2/13/2020				833	300	761
3/26/2020						
3/27/2020	28.6		14.6	700	219	836
3/28/2020		86.6				
4/23/2020						
6/16/2020						
10/12/2020					191	
10/13/2020	27.6	92.3	7.6	638		609

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			8			
3/3/2021	27.6			743	171	708
3/4/2021		99.1				
7/1/2021						
9/13/2021						
9/14/2021	30.4	96.2	16.7	659	134	995
3/1/2022				543		158
3/2/2022	25.7		16		186	
3/3/2022		50.6				
6/28/2022						
9/20/2022				750	160	740
9/21/2022	29	52	6.3			
2/28/2023				950	186	820
3/1/2023	27.4	44.2				
3/2/2023			8.12			
9/12/2023			6.48			
9/13/2023		27.1		832		1300
9/14/2023	28.8				165	
3/19/2024	28				167	810
3/20/2024		73.7	12.3			
3/21/2024				1190		
9/10/2024		103				
9/11/2024	26.2		5.75	852	149	781
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				920	179	843
3/20/2025	24.3	41.8	11.5			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	86	1910	1310	99					
8/31/2016					4160	3620	5100		
10/25/2016								2900	
11/30/2016	131	1910	1050	111	3950	4030	4680	3970	
2/15/2017	212	1870	1440	170				3820	
2/16/2017					4600	4080	5080		
5/31/2017		1920	1740					5050	257
6/1/2017	103			98					
6/2/2017					4470	5560	8000		
8/2/2017									183
8/15/2017		1840						4820	90
8/16/2017	65		3010						
8/17/2017				84	5450	4620	8320		
4/4/2018									197
4/5/2018									
5/8/2018									225
5/9/2018									
6/19/2018	142	1820	8630					5640	112
6/20/2018				123	4940	3370			
6/21/2018							7500		
9/25/2018		1760	10700						137
9/26/2018	133			117				6770 (D)	
9/27/2018					4480	2360	10200		
11/6/2018			11100				11000	4160	89
11/7/2018	121	1800		120	15100	2230			
3/6/2019					19000				
3/24/2019		1770	14200		13700	1450	13700	6840	
3/25/2019	116			101					74
10/15/2019		1730	15400						
10/16/2019	104			95		2860		7740	82
10/17/2019					16100		13200		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						2640	16700		
11/21/2019			15800					7720	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	114								
3/27/2020		1970	16400	110				10200	87
3/28/2020					18800	1470	18300		
6/16/2020					17800		17900		
10/12/2020		1560							94
10/13/2020	113		15600	115				8750	
10/14/2020					15200		18400		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020						5100			
1/4/2021						7750			
3/2/2021		1430	12000						
3/3/2021	99			122				8830	66
3/4/2021					14200	1700	17100		
7/1/2021			11200						
9/13/2021		1450	11400						
9/14/2021	66			<25	11800	8020	13400	8820	191
3/1/2022					9040	3780			
3/2/2022	97						12600		124
3/3/2022		1400	11500	104				8120	
6/28/2022					6140				
9/20/2022					3900				
9/21/2022	100	1300	7400	78		2100	9400	6200	110
2/28/2023		1290						6810	
3/1/2023	78			56					67
3/2/2023			3280		3120	1710	10500		
9/12/2023	80	1230	2720	42		2940			
9/13/2023							7440	6310	274
9/14/2023					4240				
3/19/2024		1210						5920	
3/20/2024	84		2480						137
3/21/2024				51	3820	3320	6050		
9/10/2024		1230						5490	79
9/11/2024	70		2480	54		3020	4640		
9/12/2024					5340				
3/17/2025		1220	6320						
3/18/2025	86							5200	70
3/19/2025					8300	7440	5420		
3/20/2025				61					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-18 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	123					
6/1/2017		97				
6/2/2017			69			
8/2/2017	136	538	35			
8/15/2017						
8/16/2017	124					
8/17/2017		445	51			
4/4/2018		365	90			
4/5/2018	128					
5/8/2018		304	89			
5/9/2018	127					
6/19/2018	143		110			
6/20/2018		114				
6/21/2018						
9/25/2018						
9/26/2018	132		124			
9/27/2018		255				
11/6/2018		388				
11/7/2018	134		125			
3/6/2019						
3/24/2019						
3/25/2019	111	327	98			
10/15/2019		237	107			
10/16/2019	96					
10/17/2019						
11/7/2019				10900	4140	13500
11/18/2019					4030	
11/19/2019				10000		13300
11/20/2019						
11/21/2019						
12/4/2019				11000		13200
12/5/2019					3840	
12/17/2019				9860		
12/18/2019					3880	12500
1/8/2020				9760		12300
1/9/2020					3520	
1/21/2020				10100	3280	12000
2/4/2020				10600	3220	12300
2/13/2020				10900	3580	12400
3/26/2020						
3/27/2020	119		110	14300	3090	14600
3/28/2020		284				
6/16/2020						
10/12/2020					2920	
10/13/2020	118	<25	63	6600		13900
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/22/2025 12:13 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-18 (bg)	MCM-20 (bg)
10/15/2020						
1/4/2021						
3/2/2021			40			
3/3/2021	84			11000	2620	11400
3/4/2021		285				
7/1/2021						
9/13/2021						
9/14/2021	76	193	96	14600	2190	10300
3/1/2022				4050		10500
3/2/2022	94		103		3100	
3/3/2022		146				
6/28/2022						
9/20/2022				10000	2000	8600
9/21/2022	90	180	38			
2/28/2023				10400	2090	8720
3/1/2023	73	142				
3/2/2023			35			
9/12/2023			20			
9/13/2023		51		15500		10300
9/14/2023	76				2040	
3/19/2024	50			9800	1960	
3/20/2024		255	65			
3/21/2024						7330
9/10/2024		316				
9/11/2024	64		28	9180	1530	8630
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				10100	1930	9900
3/20/2025	69	152	63			

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/13/2025, 11:34 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.058**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05892**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

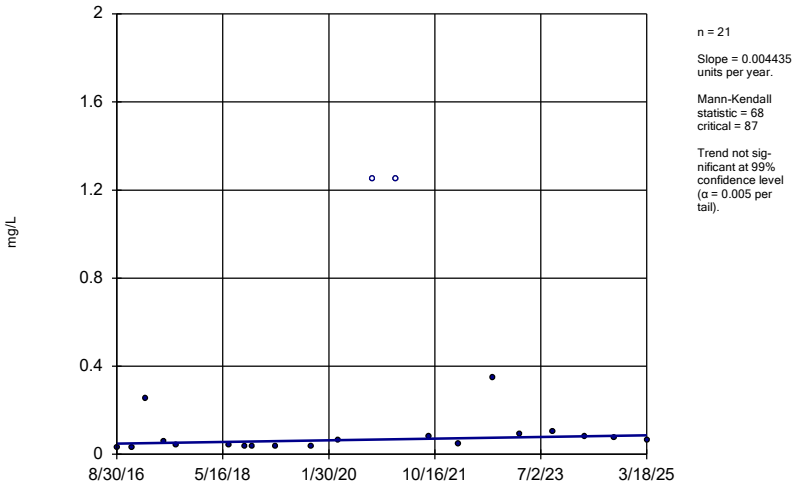
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/13/2025, 11:34 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.004435	68	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.006707	-67	-87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001315	46	87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.0002624	-4	-87	No	21	9.524	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.00429**	**-95**	**-87**	**Yes**	**21**	**9.524**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01305**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.01098	-24	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.02284	-55	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.0138	48	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.02137	-45	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06257	-80	-98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.02188	91	98	No	23	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.04439	-90	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-15 (bg)**	**-0.05141**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	0.01347	12	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-18 (bg)	0.05214	73	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02135	-27	-74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.02967**	**-92**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	-0.007295	-18	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.008858	23	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.02412	-59	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.004638	-15	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.058**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05892**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 21

Slope = 0.004435 units per year.

Mann-Kendall statistic = 68
critical = 87

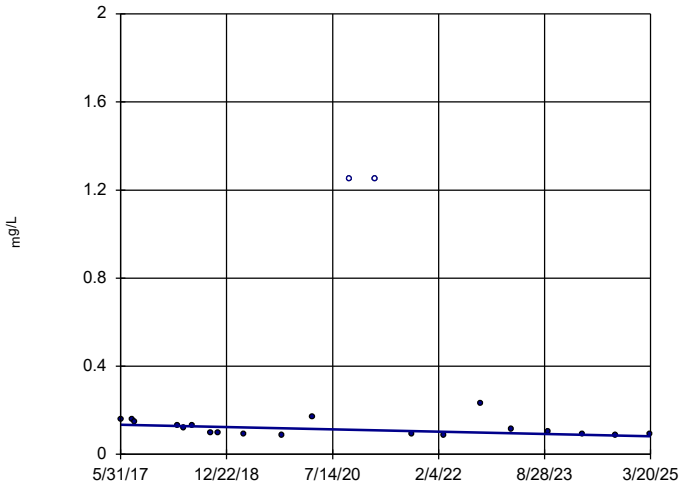
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 21

Slope = -0.006707 units per year.

Mann-Kendall statistic = -67
critical = -87

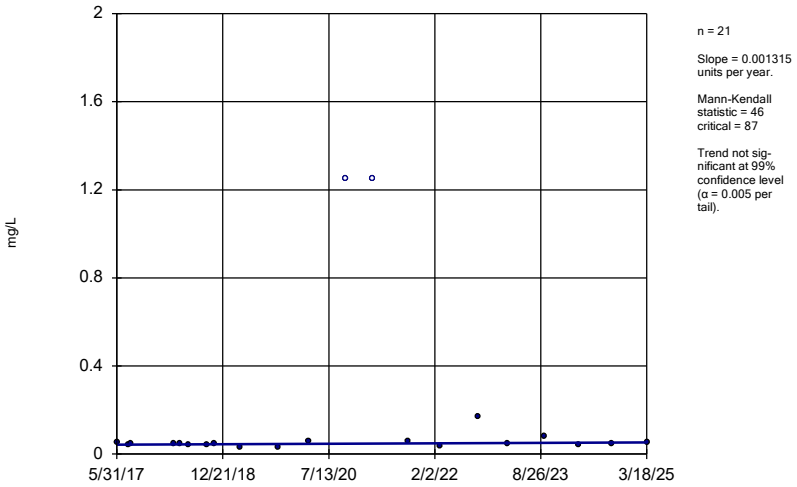
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 21

Slope = 0.001315 units per year.

Mann-Kendall statistic = 46
critical = 87

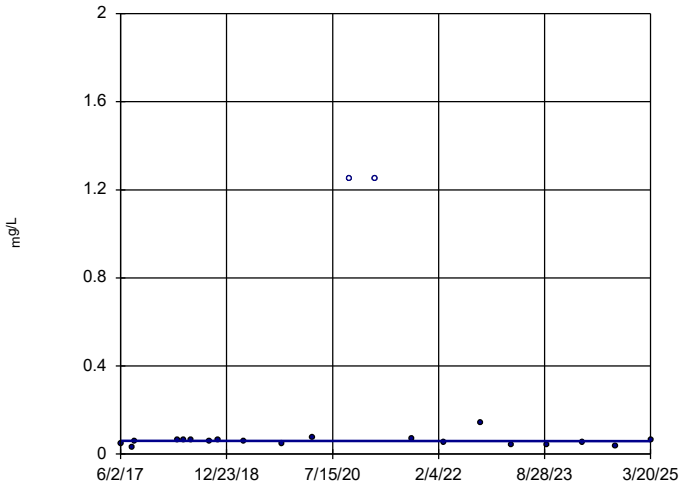
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 21

Slope = -0.0002624 units per year.

Mann-Kendall statistic = -4
critical = -87

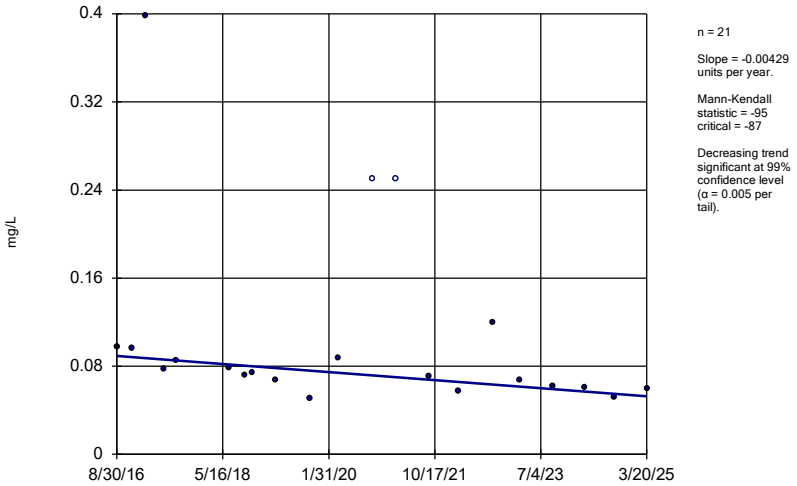
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -0.00429 units per year.

Mann-Kendall statistic = -95 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

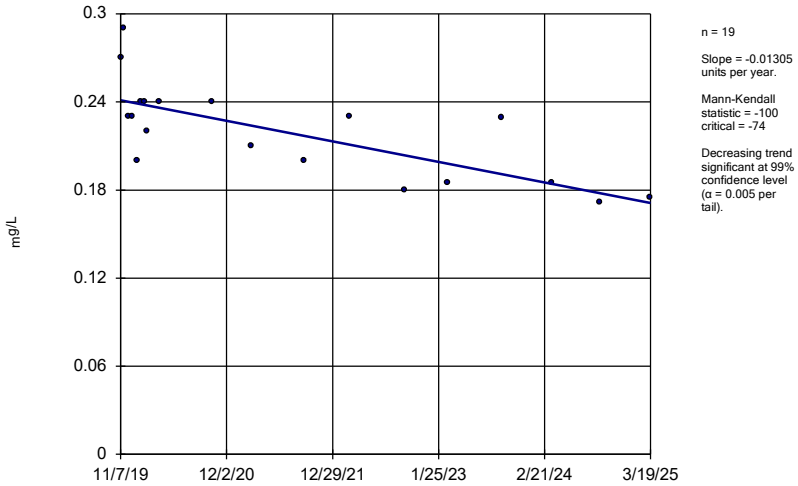
Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.01305 units per year.

Mann-Kendall statistic = -100 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

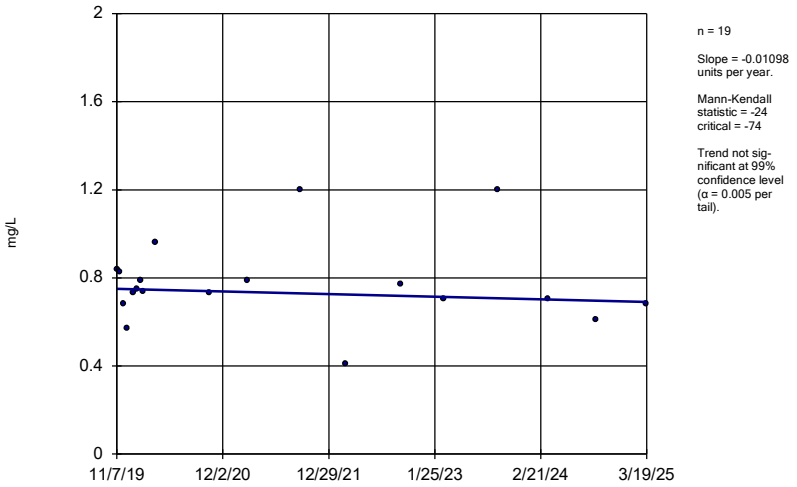
Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-19 (bg)



n = 19

Slope = -0.01098 units per year.

Mann-Kendall statistic = -24 critical = -74

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

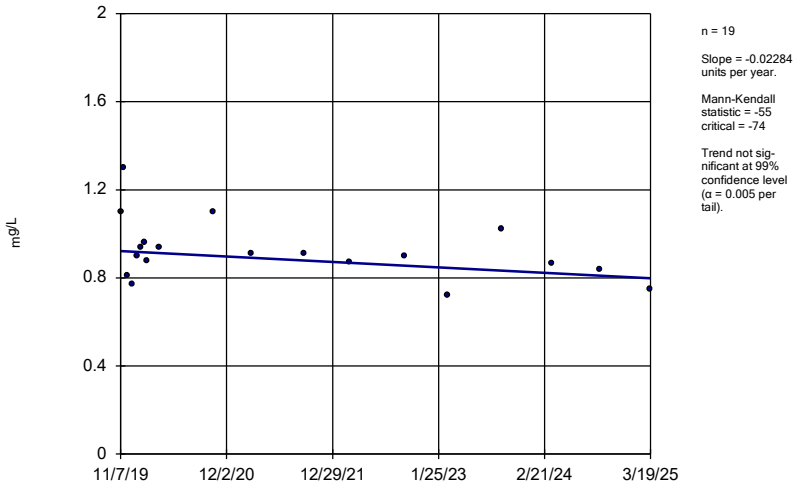
Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.02284 units per year.

Mann-Kendall statistic = -55 critical = -74

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

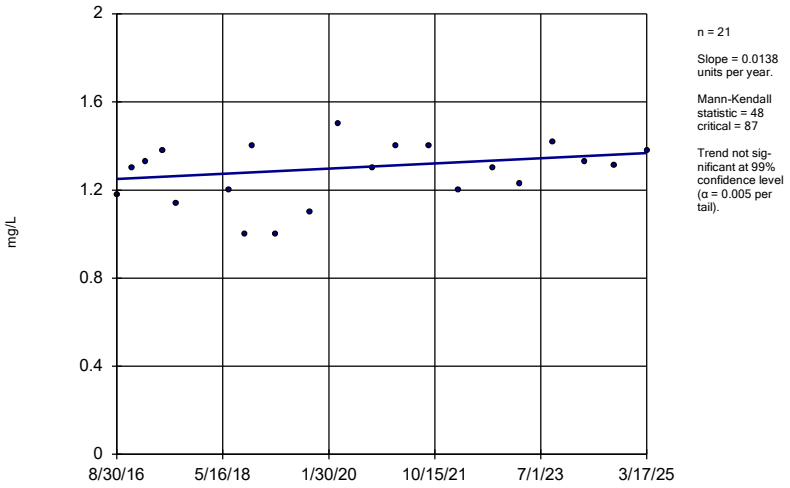
Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-12



n = 21

Slope = 0.0138 units per year.

Mann-Kendall statistic = 48 critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

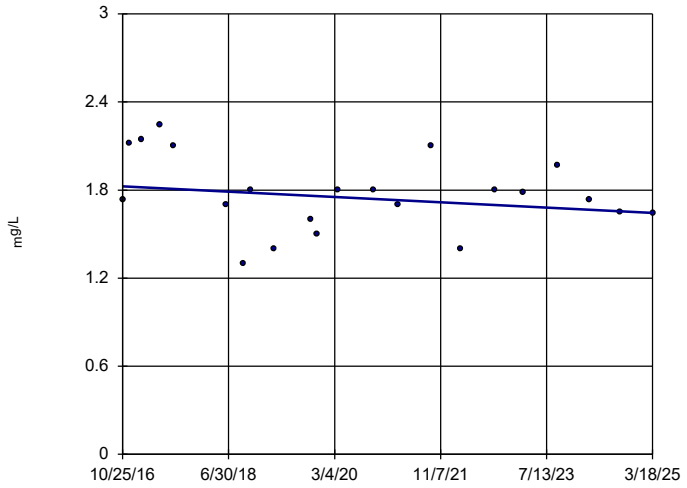
Constituent: Boron Analysis Run 5/13/2025 11:31 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-17



n = 22

Slope = -0.02137 units per year.

Mann-Kendall statistic = -45 critical = -92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

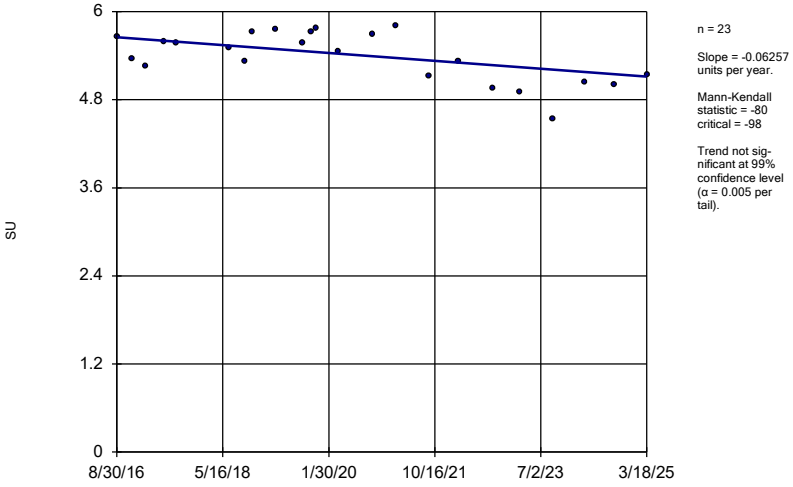
Constituent: Boron Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-01 (bg)



n = 23

Slope = -0.06257 units per year.

Mann-Kendall statistic = -80 critical = -98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

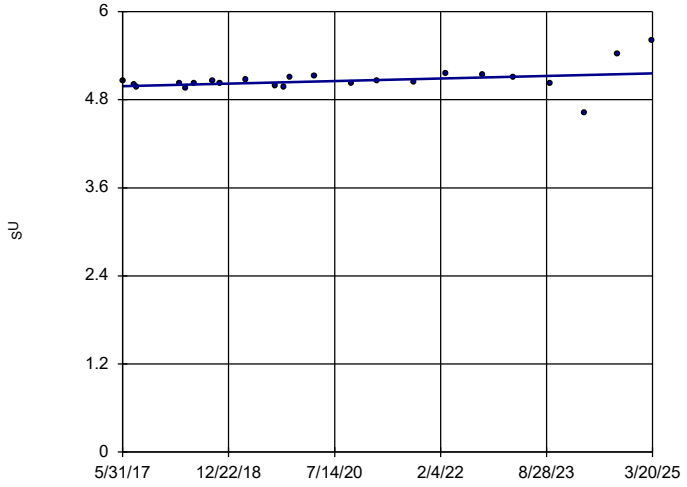
Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-02 (bg)



n = 23

Slope = 0.02188 units per year.

Mann-Kendall statistic = 91 critical = 98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

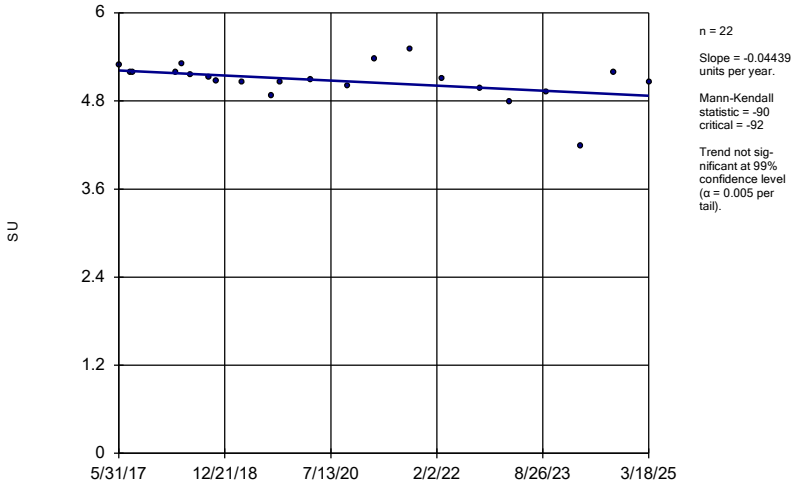
Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-11 (bg)



n = 22

Slope = -0.04439 units per year.

Mann-Kendall statistic = -90
critical = -92

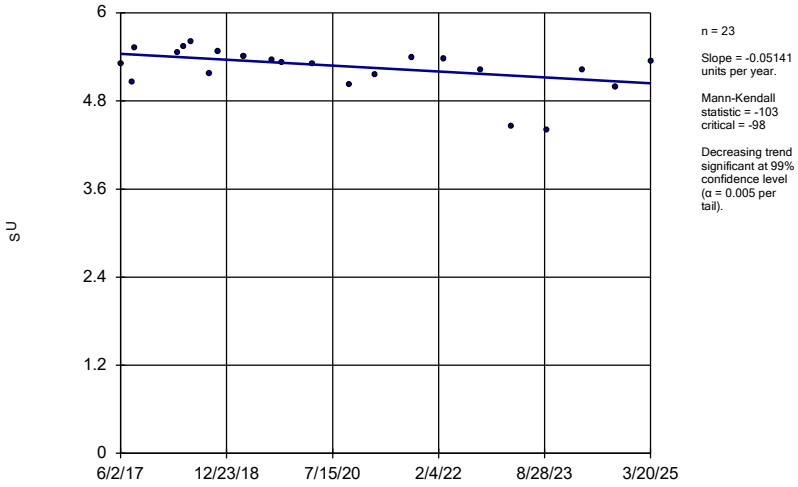
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-15 (bg)



n = 23

Slope = -0.05141 units per year.

Mann-Kendall statistic = -103
critical = -98

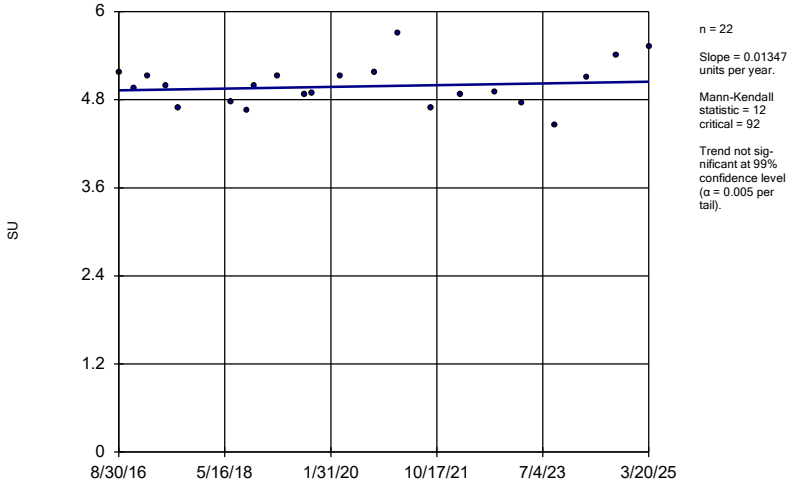
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-16 (bg)



n = 22

Slope = 0.01347 units per year.

Mann-Kendall statistic = 12
critical = 92

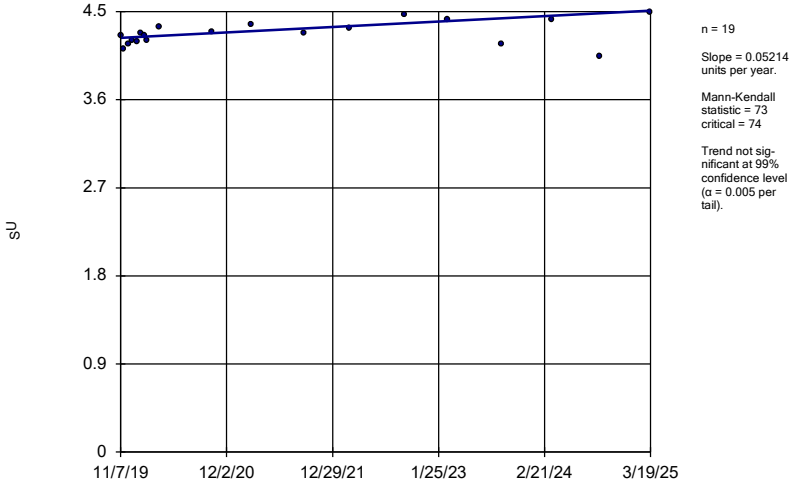
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = 0.05214 units per year.

Mann-Kendall statistic = 73
critical = 74

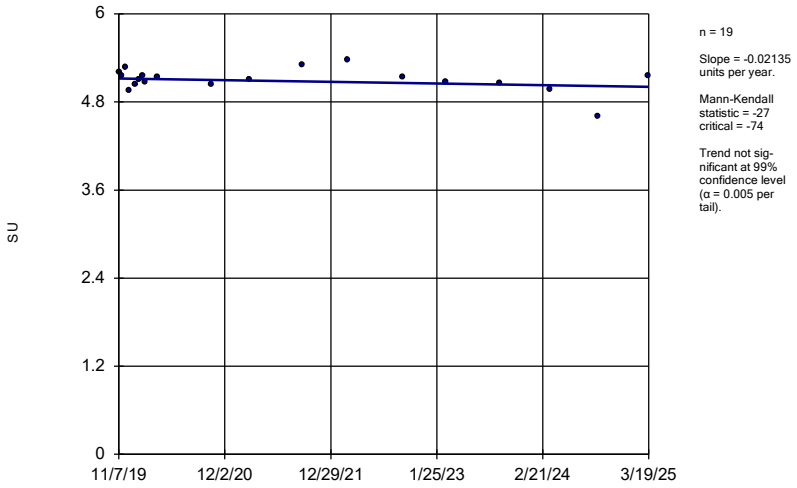
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-19 (bg)



n = 19

Slope = -0.02135 units per year.

Mann-Kendall statistic = -27
critical = -74

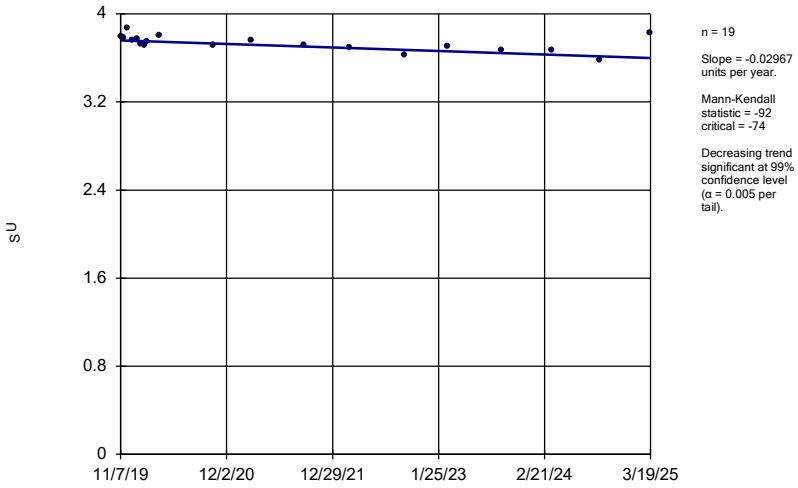
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.02967 units per year.

Mann-Kendall statistic = -92
critical = -74

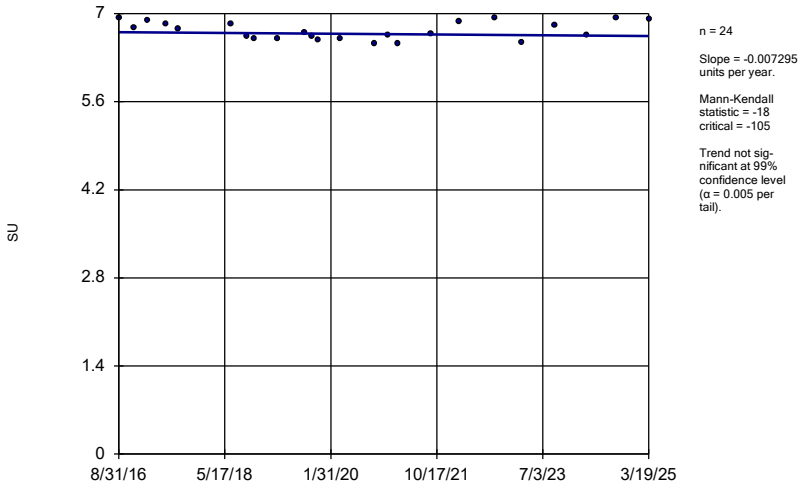
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-05



n = 24

Slope = -0.007295 units per year.

Mann-Kendall statistic = -18
critical = -105

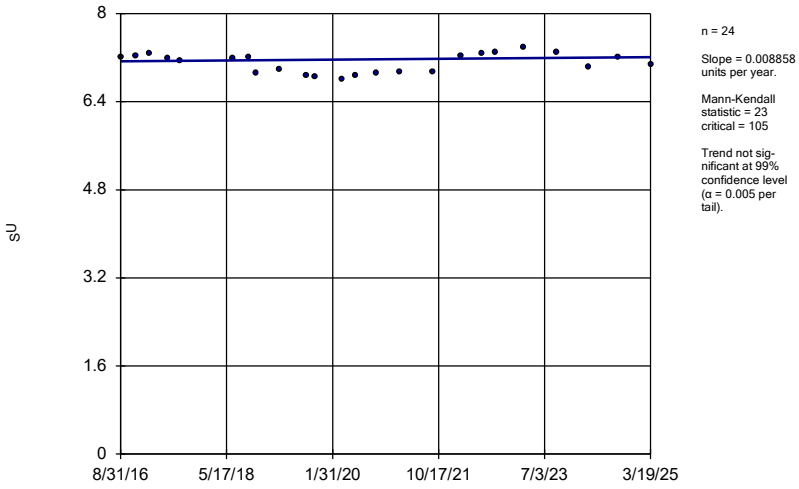
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-06



n = 24

Slope = 0.008858 units per year.

Mann-Kendall statistic = 23
critical = 105

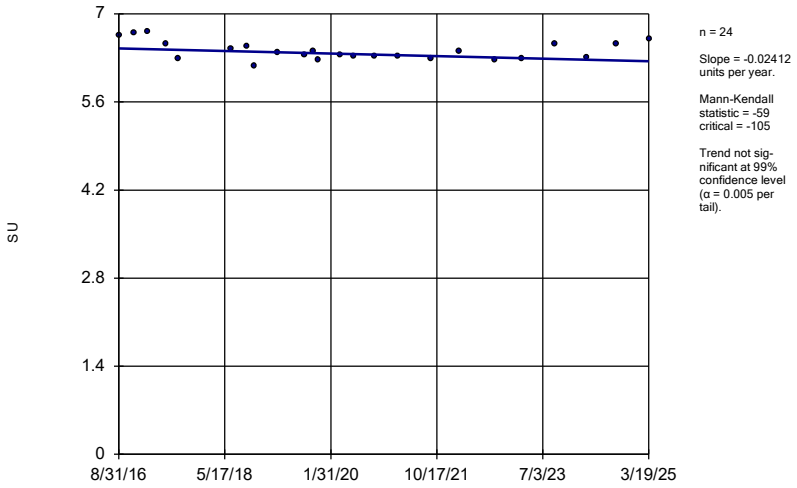
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-07



n = 24

Slope = -0.02412 units per year.

Mann-Kendall statistic = -59
critical = -105

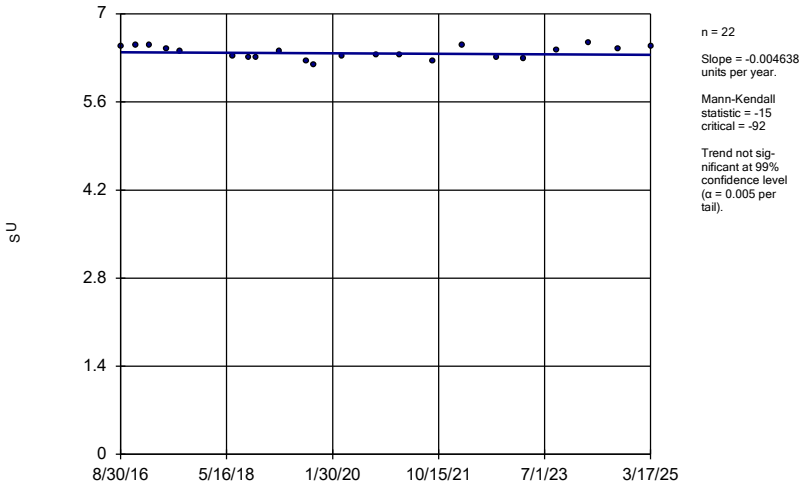
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-12



n = 22

Slope = -0.004638 units per year.

Mann-Kendall statistic = -15
critical = -92

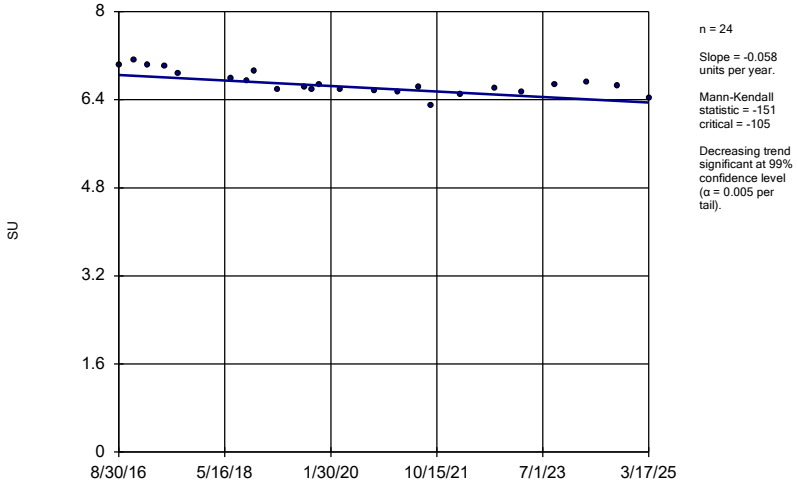
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-14



n = 24

Slope = -0.058 units per year.

Mann-Kendall statistic = -151
critical = -105

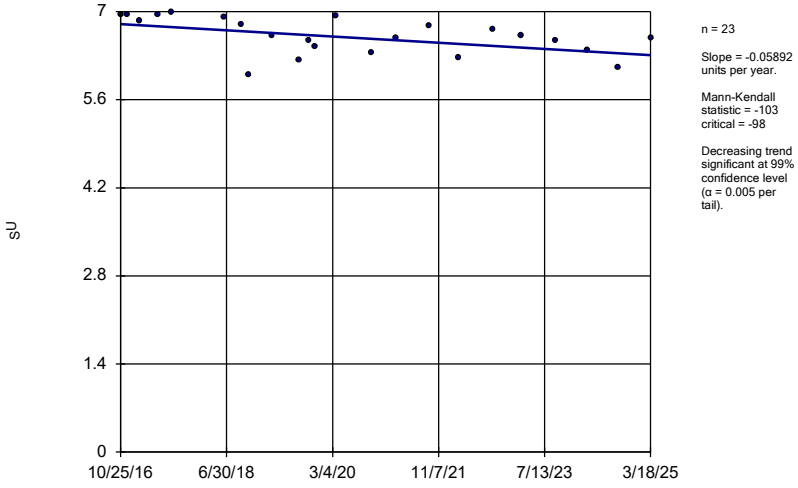
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-17



n = 23

Slope = -0.05892 units per year.

Mann-Kendall statistic = -103
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/13/2025 11:32 AM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE G.

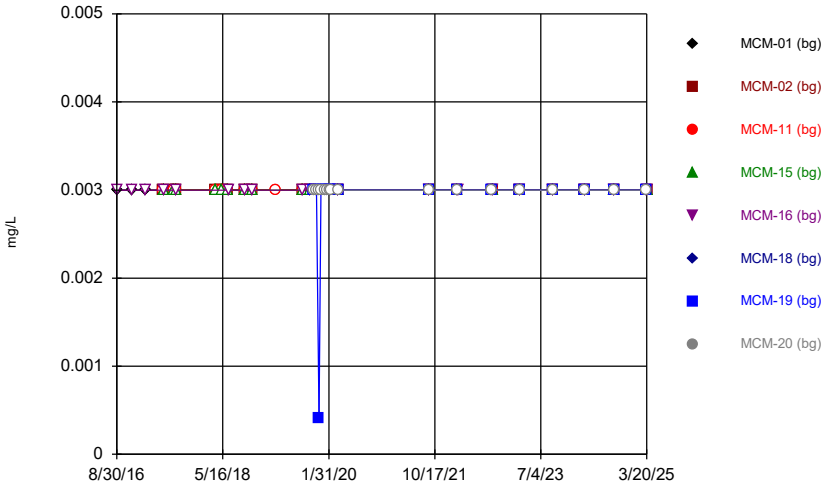
Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/22/2025, 12:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	147	99.32	n/a	0.0005313	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.032	n/a	n/a	n/a	n/a	165	18.79	n/a	0.0002111	NP Inter(normality)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	163	0	n/a	0.0002339	NP Inter(normality)
Beryllium (mg/L)	n/a	0.021	n/a	n/a	n/a	n/a	162	32.1	n/a	0.0002462	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	145	97.24	n/a	0.0005887	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	147	60.54	n/a	0.0005313	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.036	n/a	n/a	n/a	n/a	162	77.16	n/a	0.0002462	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	34.9	n/a	n/a	n/a	n/a	153	0	n/a	0.0003906	NP Inter(normality)
Fluoride (mg/L)	n/a	3.98	n/a	n/a	n/a	n/a	166	48.8	n/a	0.0002005	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	162	88.89	n/a	0.0002462	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0493	n/a	n/a	n/a	n/a	159	60.38	n/a	0.0002871	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0007	n/a	n/a	n/a	n/a	146	97.26	n/a	0.0005593	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	146	89.73	n/a	0.0005593	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0492	n/a	n/a	n/a	n/a	139	74.1	n/a	0.0008009	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	146	97.26	n/a	0.0005593	NP Inter(NDs)

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Hollow symbols indicate censored values.

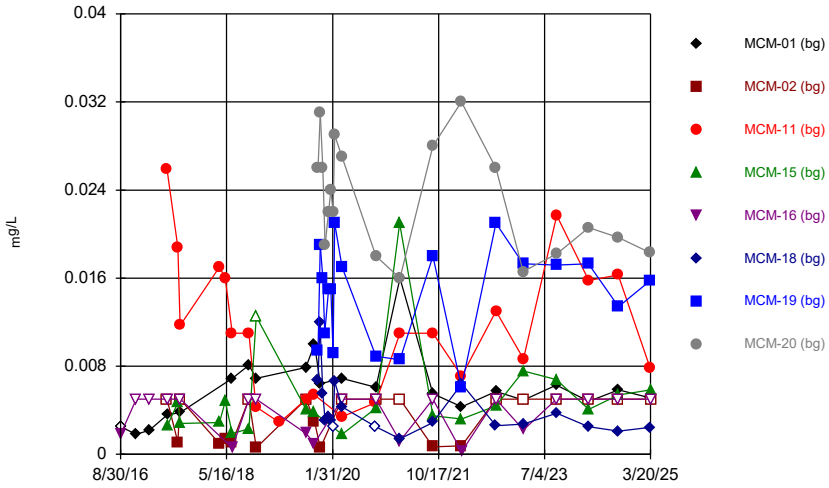
Time Series



Constituent: Antimony Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

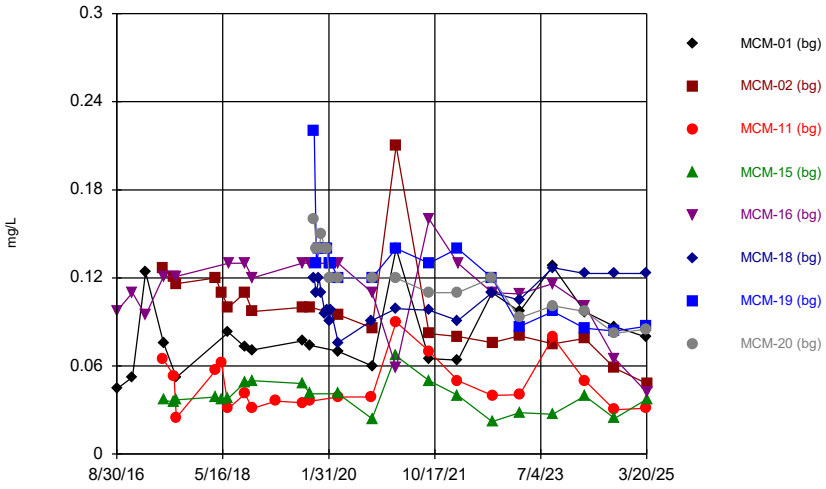
Time Series



Constituent: Arsenic Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

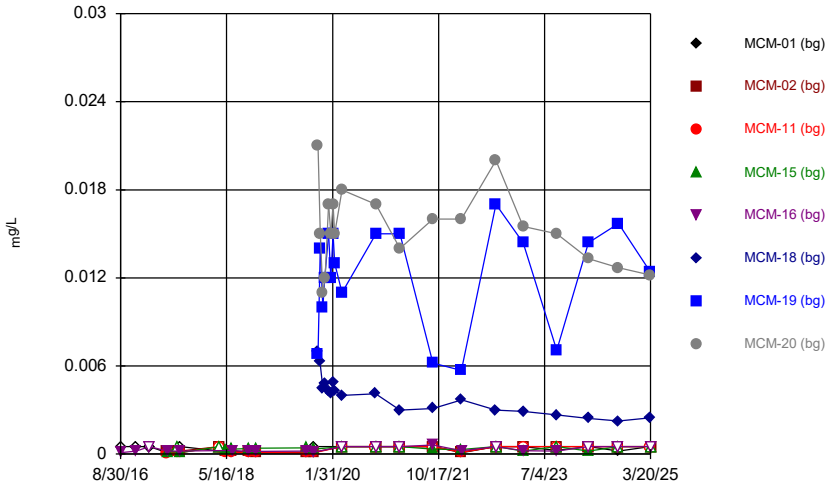
Time Series



Constituent: Barium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

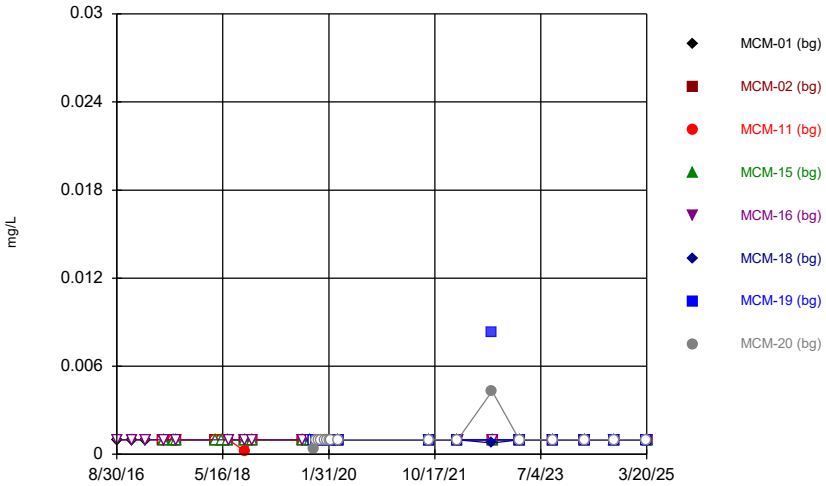
Time Series



Constituent: Beryllium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

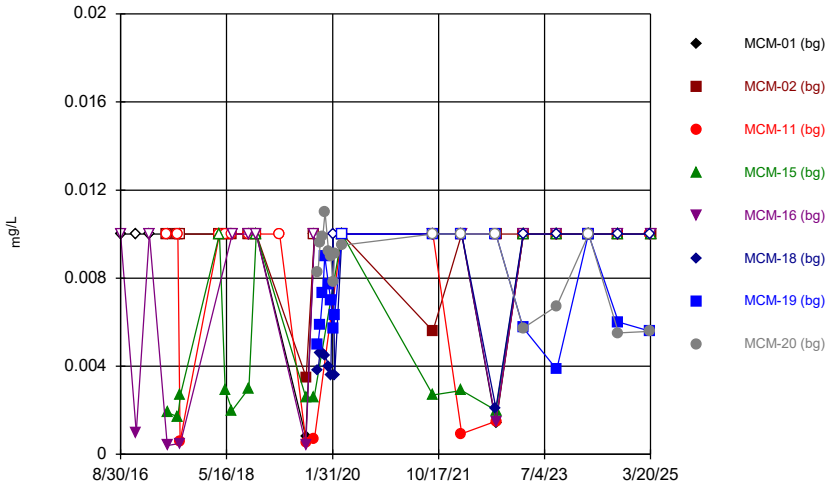
Time Series



Constituent: Cadmium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

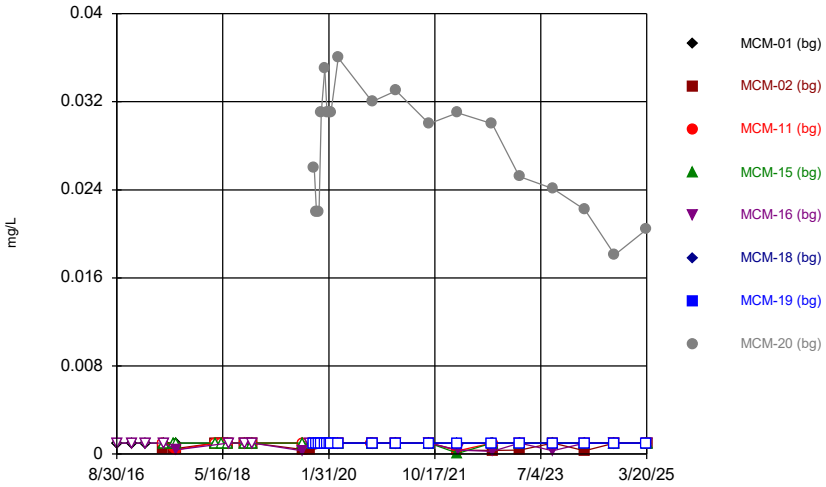
Time Series



Constituent: Chromium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

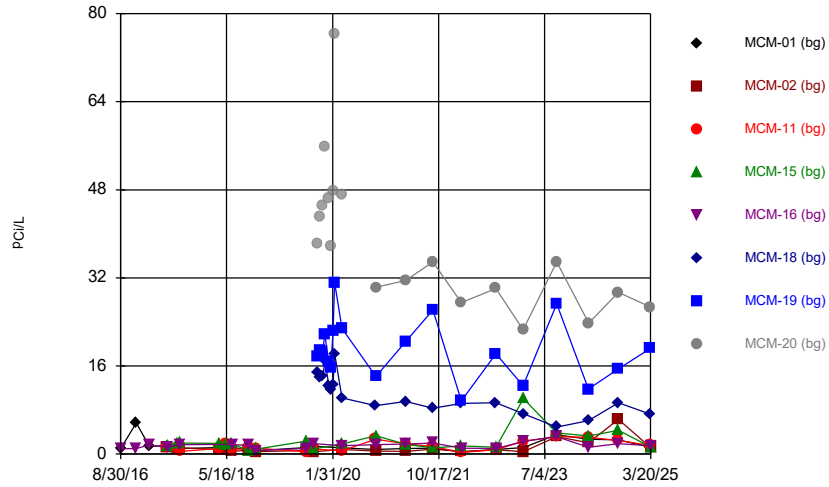
Time Series



Constituent: Cobalt Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

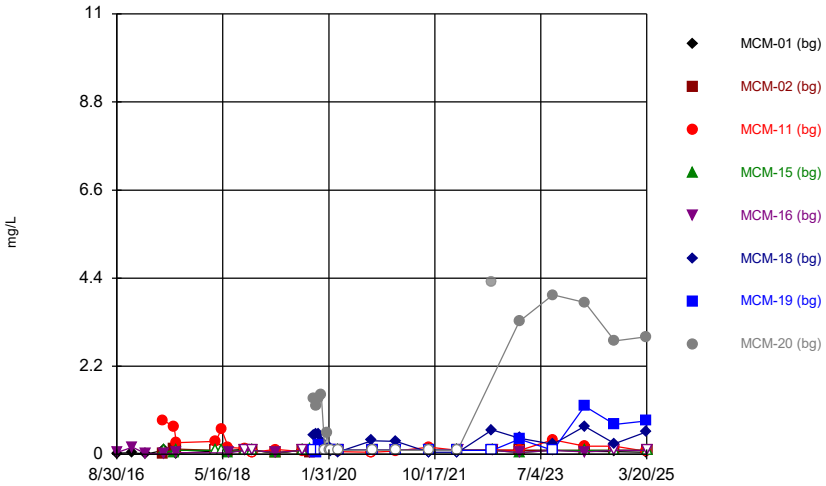
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

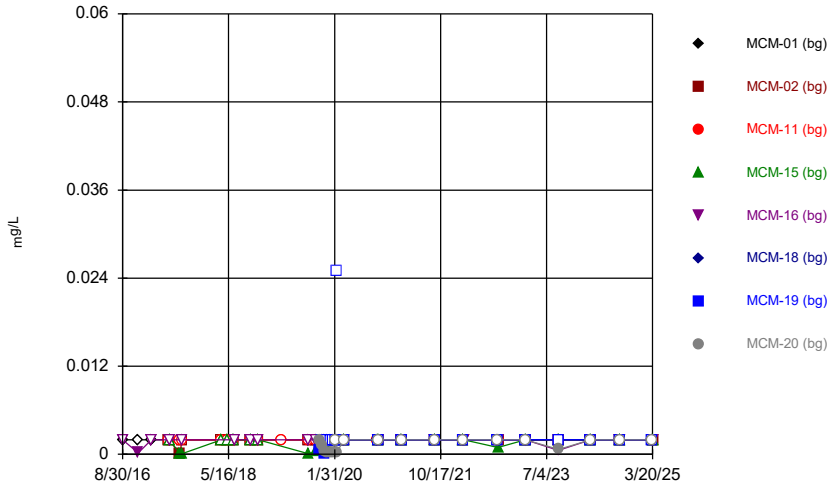
Time Series



Constituent: Fluoride Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

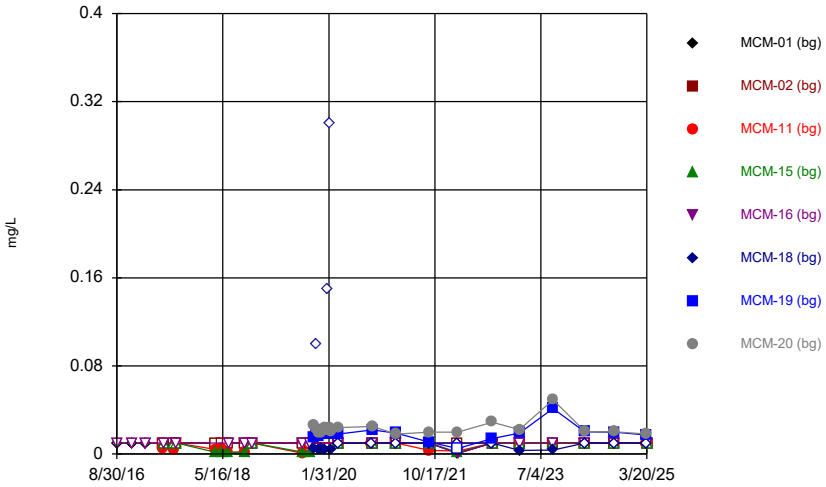
Time Series



Constituent: Lead Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

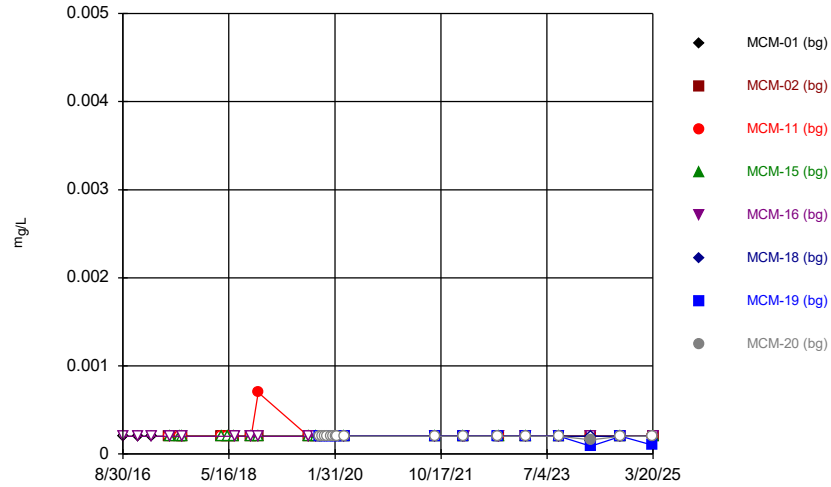
Time Series



Constituent: Lithium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

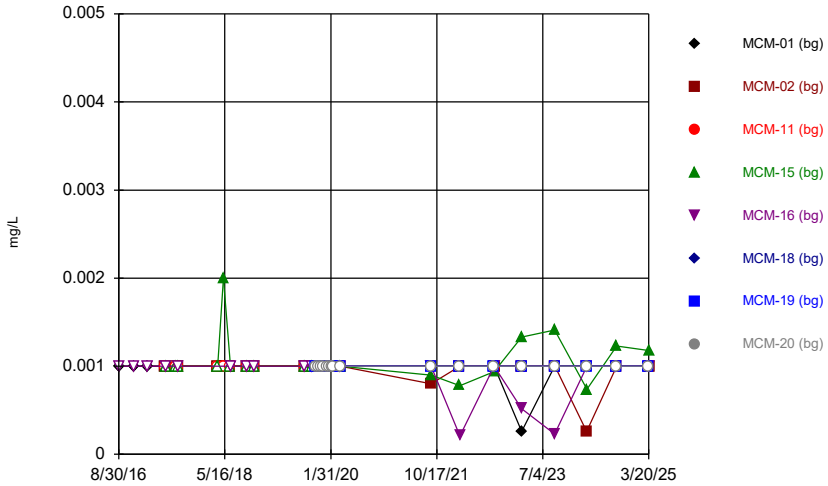
Time Series



Constituent: Mercury Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

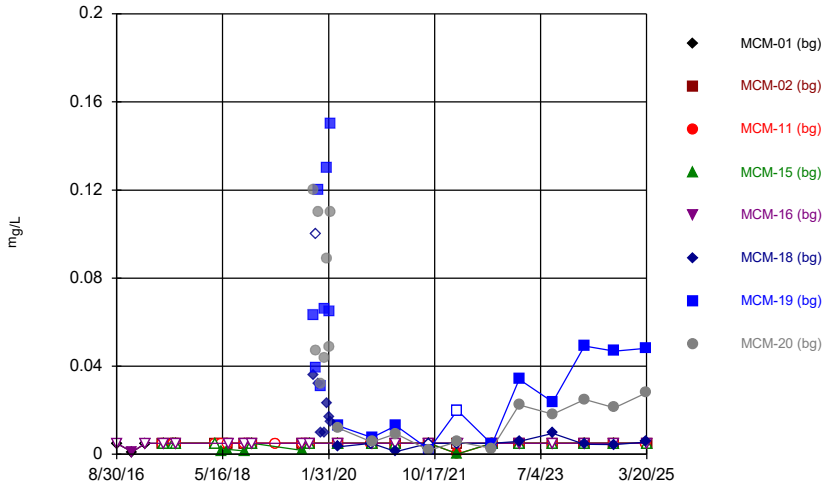
Time Series



Constituent: Molybdenum Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

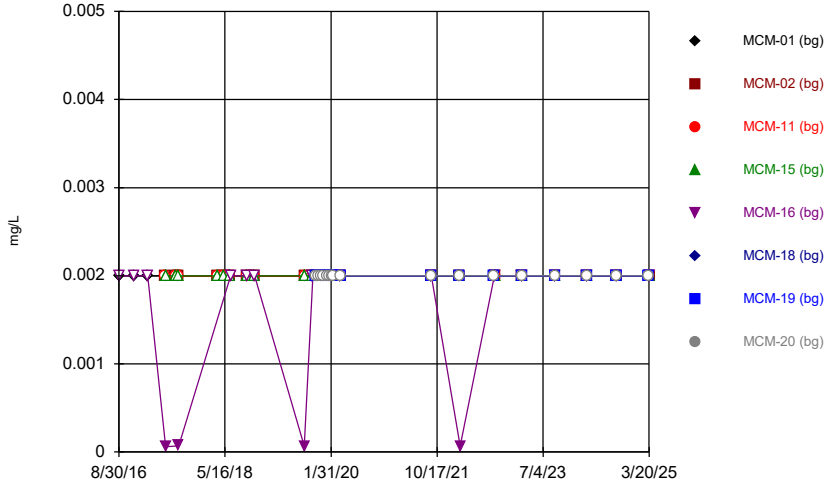
Time Series



Constituent: Selenium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

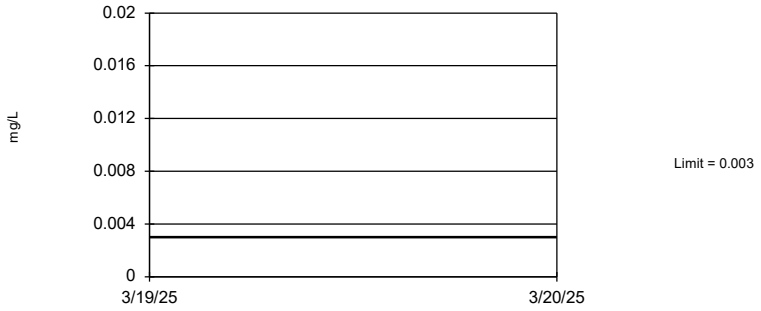


Constituent: Thallium Analysis Run 5/22/2025 12:16 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 147 background values. 99.32% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

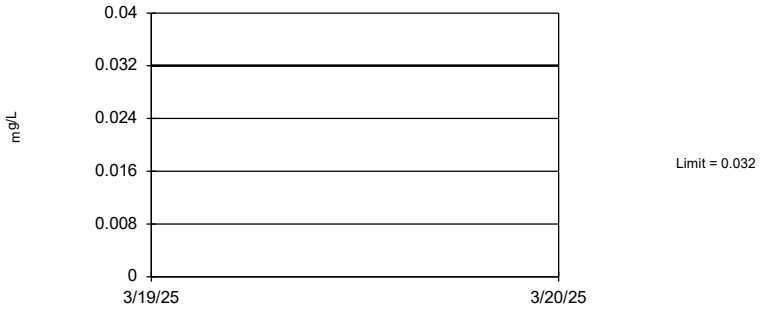
Constituent: Antimony Analysis Run 5/22/2025 12:16 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 165 background values. 18.79% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002111.

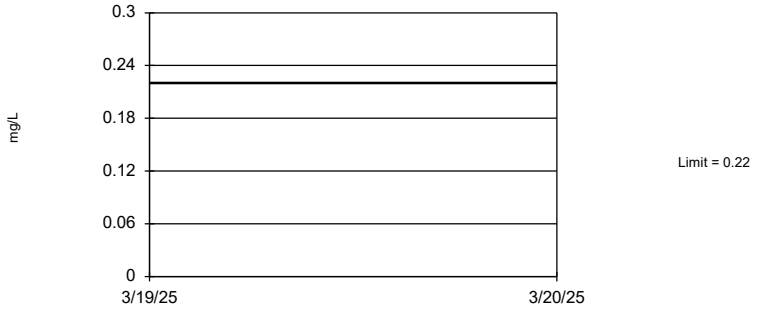
Constituent: Arsenic Analysis Run 5/22/2025 12:16 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 163 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002339.

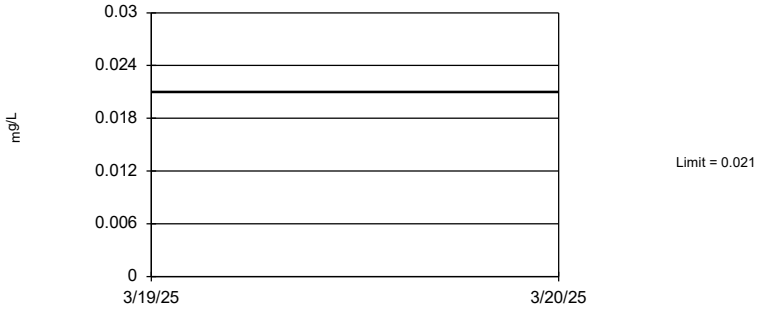
Constituent: Barium Analysis Run 5/22/2025 12:16 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 162 background values. 32.1% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

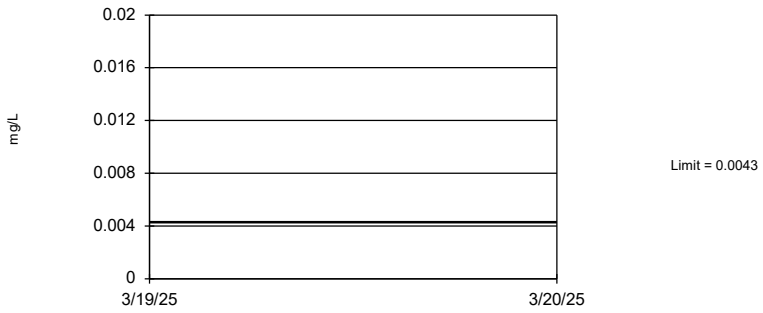
Constituent: Beryllium Analysis Run 5/22/2025 12:16 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 145 background values. 97.24% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005887.

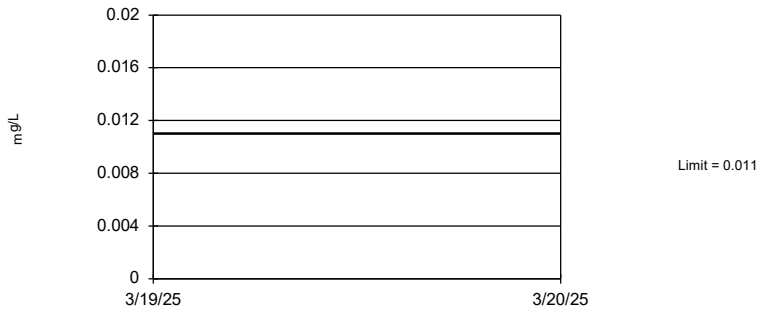
Constituent: Cadmium Analysis Run 5/22/2025 12:16 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 147 background values. 60.54% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

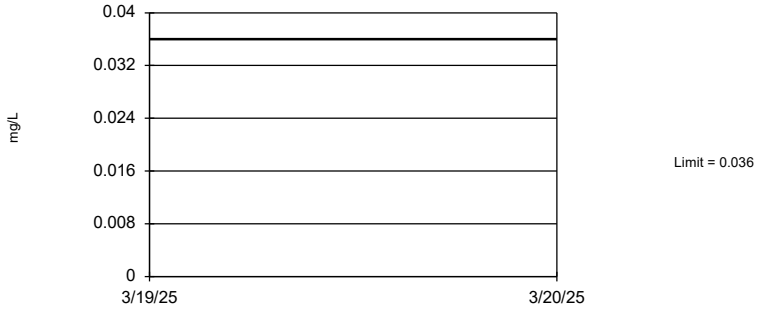
Constituent: Chromium Analysis Run 5/22/2025 12:17 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 77.16% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

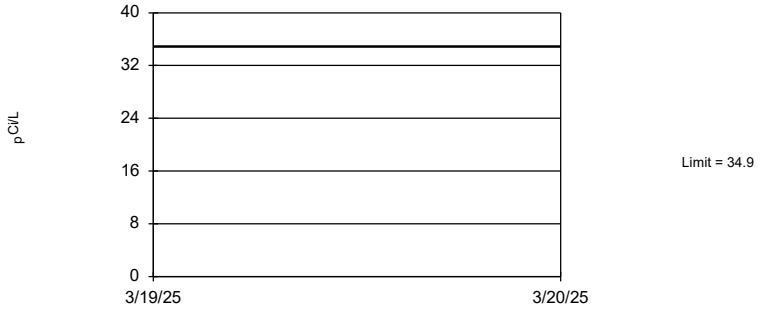
Constituent: Cobalt Analysis Run 5/22/2025 12:17 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

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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 153 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003906.

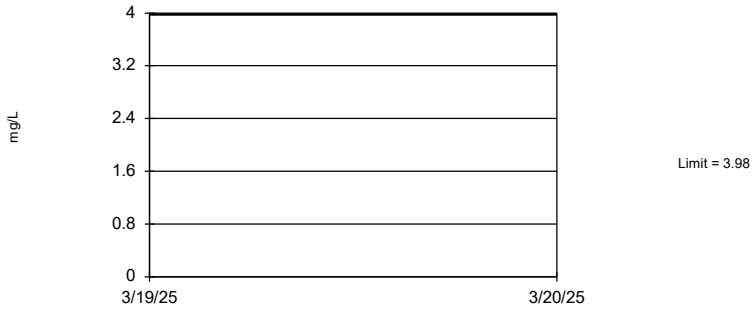
Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 12:17 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



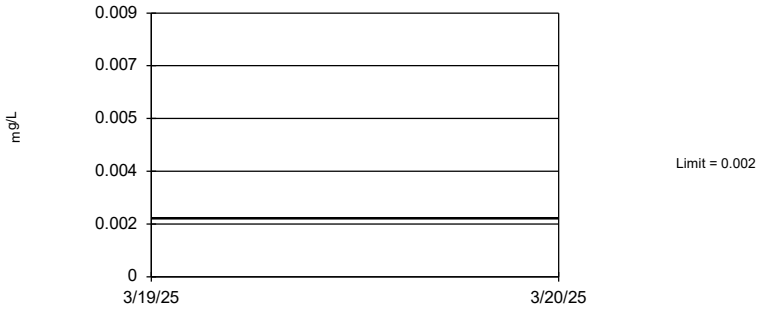
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 166 background values. 48.8% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002005.

Constituent: Fluoride Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



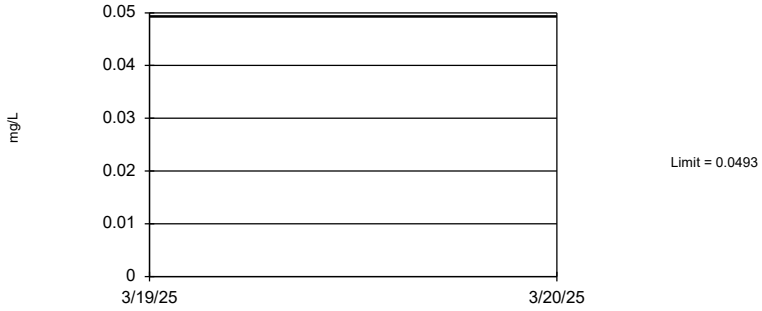
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 88.89% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Lead Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



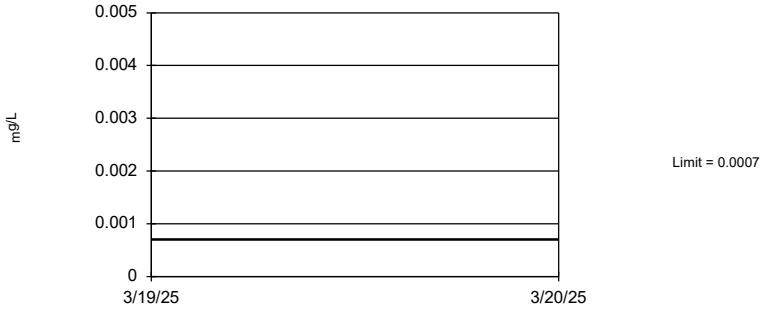
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 159 background values. 60.38% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002871.

Constituent: Lithium Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



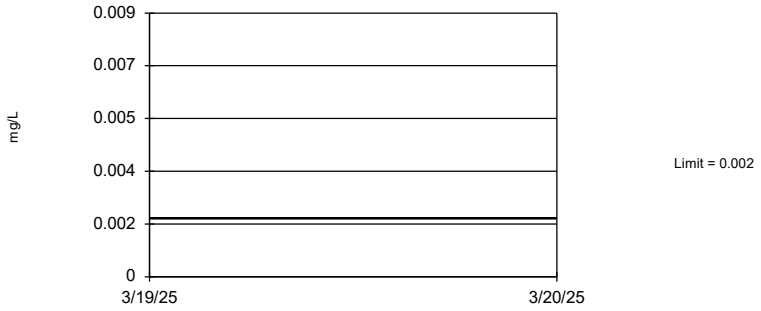
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 146 background values. 97.26% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005593.

Constituent: Mercury Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 146 background values. 89.73% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005593.

Constituent: Molybdenum Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



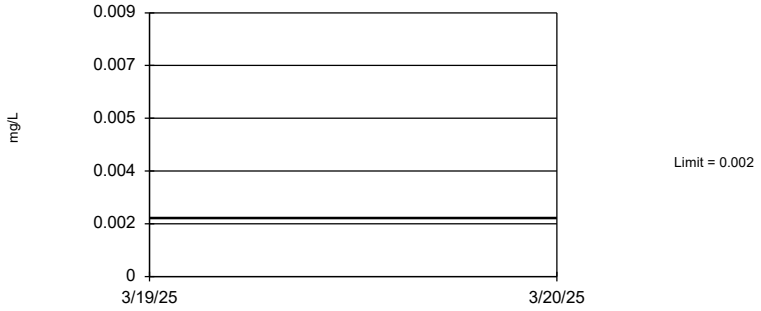
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 139 background values. 74.1% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008009.

Constituent: Selenium Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 146 background values. 97.26% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005593.

Constituent: Thallium Analysis Run 5/22/2025 12:17 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE H.

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.002	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE I.

Arsenic & Lithium MCM-06 Trend Test - All Results (No Significant)

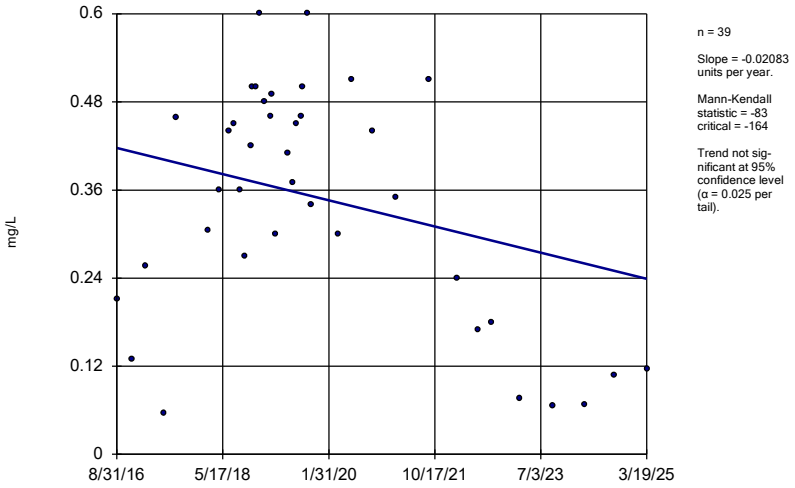
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/14/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MCM-06	-0.02083	-83	-164	No	39	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0	3	76	No	23	0	n/a	n/a	0.05	NP

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Sen's Slope Estimator

MCM-06



n = 39

Slope = -0.02083 units per year.

Mann-Kendall statistic = -83
critical = -164

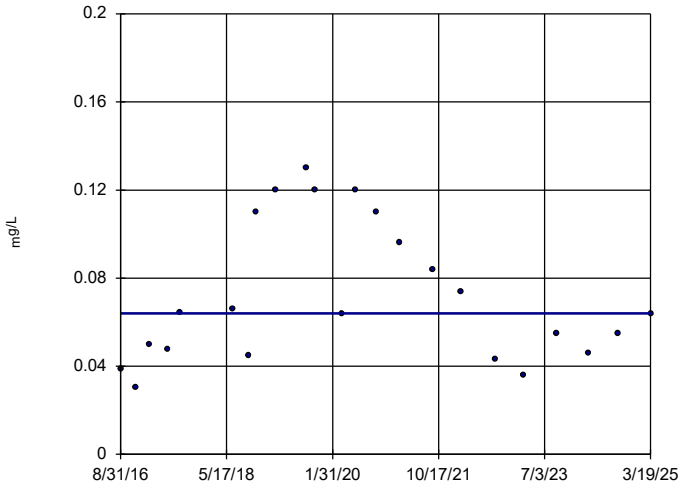
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 5/14/2025 3:07 PM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-06



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 5/14/2025 3:07 PM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

Arsenic & Lithium MCM-06 Trend Test Truncated Records - All Results

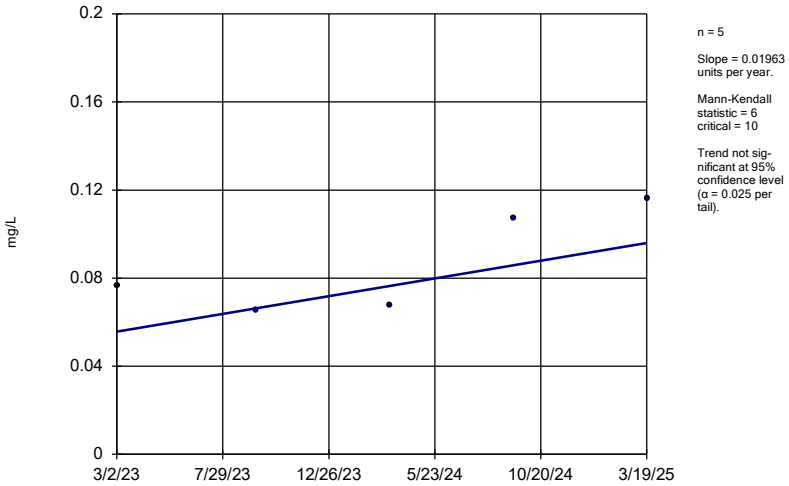
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/14/2025, 3:06 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MCM-06	0.01963	6	10	No	5	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.009196	9	12	No	6	0	n/a	n/a	0.05	NP

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Sen's Slope Estimator

MCM-06



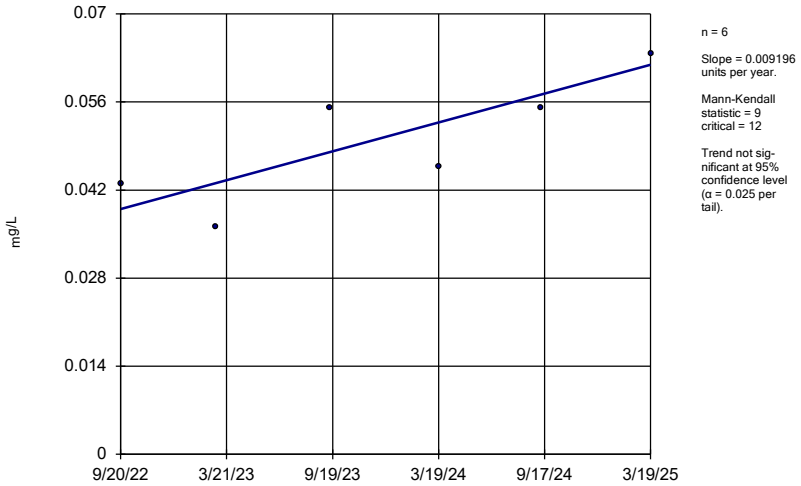
Constituent: Arsenic Analysis Run 5/14/2025 2:57 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-06



Constituent: Lithium Analysis Run 5/14/2025 2:57 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE J.

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1258**	**0.04712**	**0.032**	**Yes**	**5**	**0.08644**	**0.02347**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09268**	**0.07174**	**0.049**	**Yes**	**12**	**0.07817**	**0.02517**	**8.333**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00142	0.006	No	19	0.002917	0.0003625	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	20	0.002789	0.0006329	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	19	0.002863	0.0005965	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005471	0.002721	0.032	No	21	0.004466	0.00311	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.0129	0.00543	0.032	No	37	0.01201	0.01175	8.108	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1258**	**0.04712**	**0.032**	**Yes**	**5**	**0.08644**	**0.02347**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01632	0.01061	0.032	No	36	0.01421	0.007347	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	21	0.003773	0.001824	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.0022	0.032	No	22	0.003995	0.001764	54.55	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.0024	0.032	No	22	0.003931	0.001586	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DPZ-02	0.02291	0.01309	0.032	No	12	0.018	0.006258	8.333	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.06847	0.0344	2	No	21	0.06196	0.06287	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03759	0.01303	2	No	22	0.04423	0.09266	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.124	0.06308	2	No	22	0.09352	0.05672	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1661	0.08587	2	No	21	0.1361	0.09097	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1159	0.08605	2	No	21	0.101	0.02703	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05285	2	No	21	0.08158	0.05209	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1188	0.06876	2	No	21	0.09378	0.04536	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07997	0.04877	2	No	10	0.06437	0.01748	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003674	0.0002088	0.021	No	21	0.0003768	0.000157	38.1	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	22	0.0004797	0.00009509	95.45	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	21	0.0004415	0.000147	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.00139	0.0007143	0.021	No	21	0.001052	0.0006128	9.524	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	21	0.000407	0.0001722	76.19	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.000281	0.0002052	0.021	No	21	0.000347	0.0001337	38.1	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	19	0.00097	0.0001308	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	19	0.006334	0.004422	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	19	0.006686	0.004464	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	20	0.007757	0.003987	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	19	0.006363	0.003944	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.006683	0.005449	0.1	No	19	0.007145	0.00198	26.32	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	19	0.006462	0.004281	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01052	0.006083	0.1	No	19	0.00921	0.003593	21.05	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.005015	0.002279	0.036	No	22	0.003647	0.002608	31.82	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	22	0.001007	0.0002541	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	22	0.0009636	0.0001497	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	21	0.0009719	0.0001532	90.48	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000481	0.036	No	21	0.0007393	0.0002605	47.62	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	21	0.000981	0.00008729	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	21	0.0009214	0.0002101	85.71	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.021	2.985	34.9	No	21	4.143	2.073	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.492	1.756	34.9	No	22	2.871	2.003	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.676	3.303	34.9	No	21	4.989	3.057	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.699	5.777	34.9	No	22	7.238	2.722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.233	2.321	34.9	No	21	2.777	0.8261	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.889	3.788	34.9	No	22	5.339	2.888	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.691	3.84	34.9	No	22	5.265	2.657	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.561	5.795	34.9	No	10	7.678	2.11	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	22	0.1232	0.1081	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-05	0.5236	0.2939	4	No	24	0.4088	0.2252	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3147	0.114	4	No	22	0.2764	0.2398	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.692	0.1	4	No	23	0.377	0.3271	34.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.326	1.067	4	No	22	1.164	0.3136	4.545	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	24	0.2101	0.1703	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-17	1.2	0.1	4	No	23	0.681	0.5074	26.09	None	No	0.01	NP (normality)
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	10	0.1699	0.2176	80	None	No	0.011	NP (NDs)
Lead (mg/L)	MCM-05	0.002	0.0002	0.015	No	22	0.001918	0.0003838	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.002	0.00012	0.015	No	22	0.001915	0.0004008	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.002	0.0002	0.015	No	21	0.001732	0.000672	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	21	0.001586	0.0007735	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.002	0.00008	0.015	No	21	0.001909	0.000419	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	21	0.001747	0.0006367	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.0019	0.049	No	21	0.006929	0.004041	61.9	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.022	0.049	No	22	0.05375	0.1157	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06344	0.03609	0.049	No	6	0.04977	0.009955	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.0403	0.01967	0.049	No	23	0.03642	0.0318	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01137	0.009123	0.049	No	21	0.01004	0.002407	14.29	None	x^2	0.01	Param.

Confidence Interval Summary Table - All Results

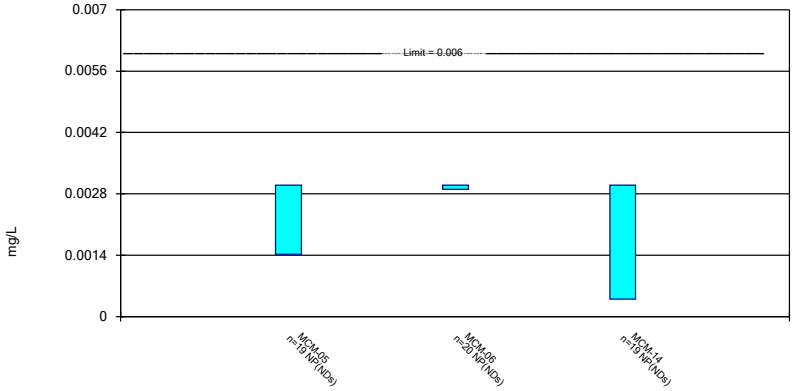
Plant McManus Client: Southern Company Data: McManus AP1 Printed 5/21/2025, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MCM-14	0.04113	0.02272	0.049	No	23	0.03193	0.0176	8.696	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02571	0.01654	0.049	No	21	0.02112	0.008305	4.762	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09268**	**0.07174**	**0.049**	**Yes**	**12**	**0.07817**	**0.02517**	**8.333**	**None**	**x^3**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	19	0.0002268	0.000117	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	19	0.0001917	0.00003625	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	20	0.000198	0.000008944	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	19	0.0002247	0.0001078	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	19	0.0002242	0.0001055	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	19	0.0002232	0.0001009	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.00015	0.1	No	19	0.0009553	0.000195	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.00113	0.00095	0.1	No	19	0.001504	0.002043	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.00131	0.000983	0.1	No	20	0.001226	0.0004813	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.00146	0.00095	0.1	No	19	0.0009874	0.00015	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.001	0.00044	0.1	No	19	0.0008448	0.0002711	73.68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.00102	0.000313	0.1	No	19	0.0008858	0.0002745	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.001	0.000217	0.1	No	8	0.0007215	0.0003852	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	21	0.004429	0.001493	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	22	0.004505	0.001085	81.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	22	0.0045	0.001578	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.00238	0.05	No	21	0.004083	0.001332	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	21	0.003799	0.001585	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	21	0.004348	0.001316	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	21	0.004426	0.00176	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.005	0.00205	0.05	No	10	0.004381	0.001307	80	None	No	0.011	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	20	0.001904	0.0004302	95	None	No	0.01	NP (NDs)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

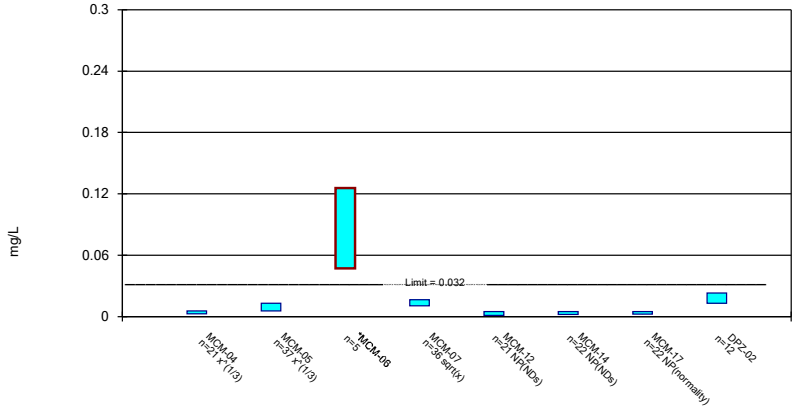


Constituent: Antimony Analysis Run 5/21/2025 3:57 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

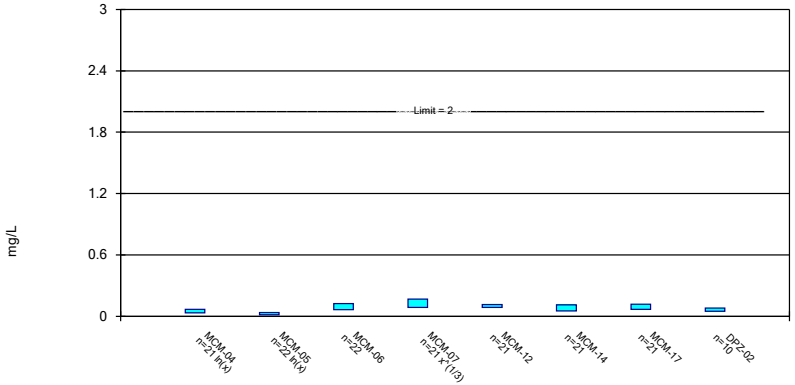


Constituent: Arsenic Analysis Run 5/21/2025 3:57 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

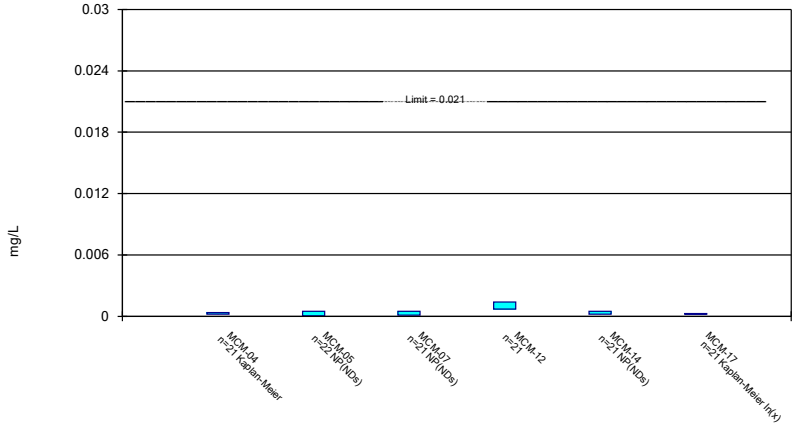


Constituent: Barium Analysis Run 5/21/2025 3:57 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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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.

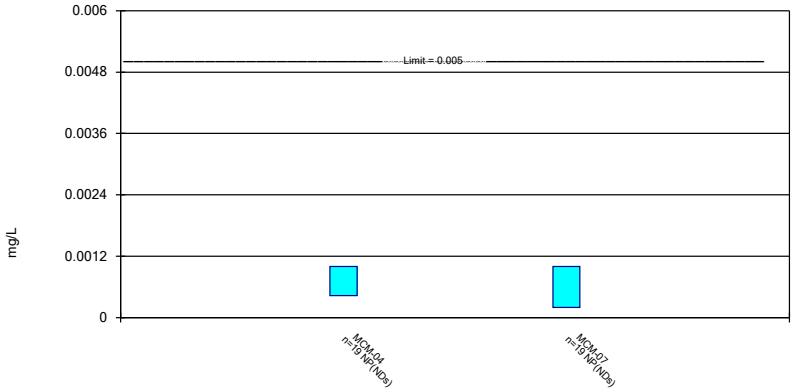


Constituent: Beryllium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

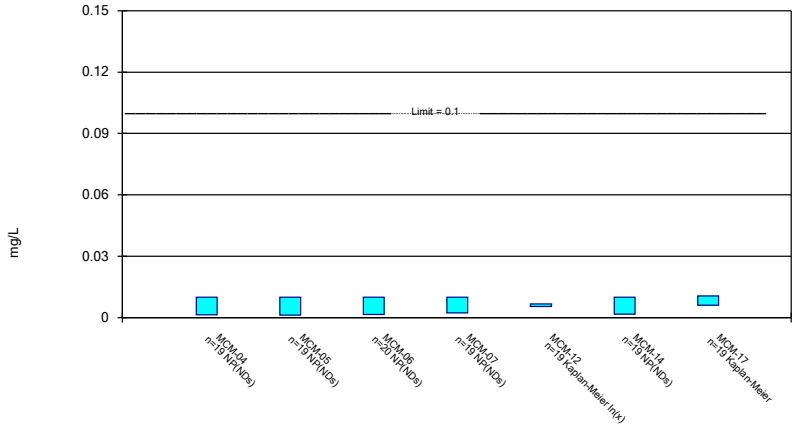


Constituent: Cadmium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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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.

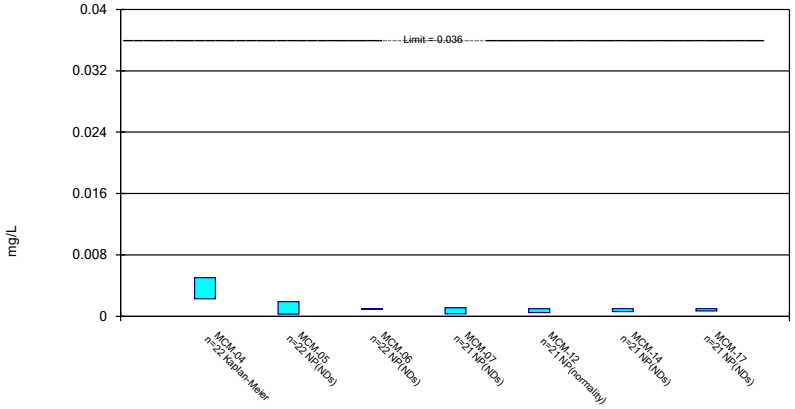


Constituent: Chromium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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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.

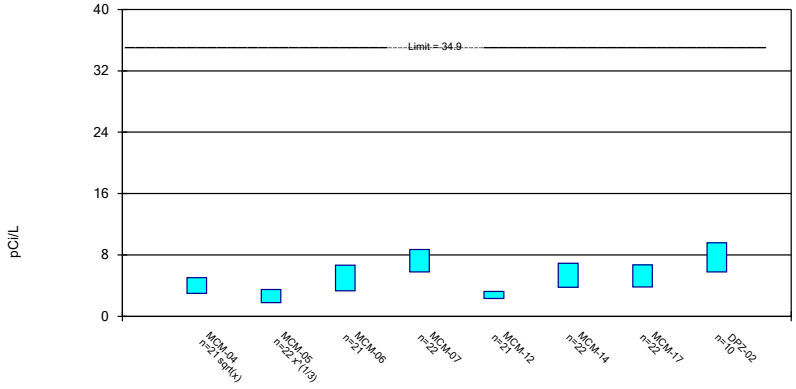


Constituent: Cobalt Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

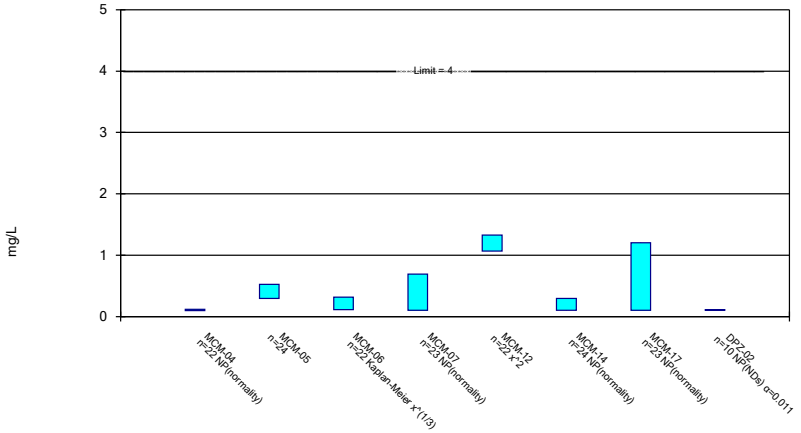


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

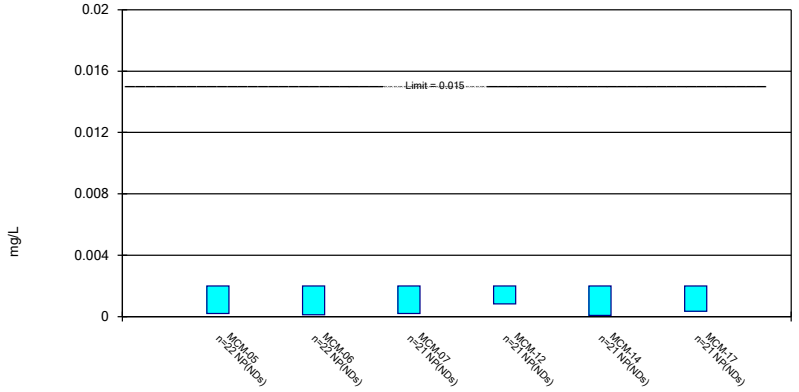


Constituent: Fluoride Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

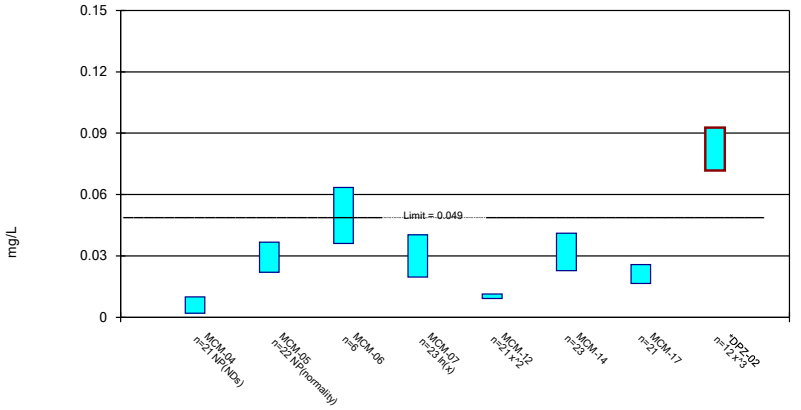


Constituent: Lead Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

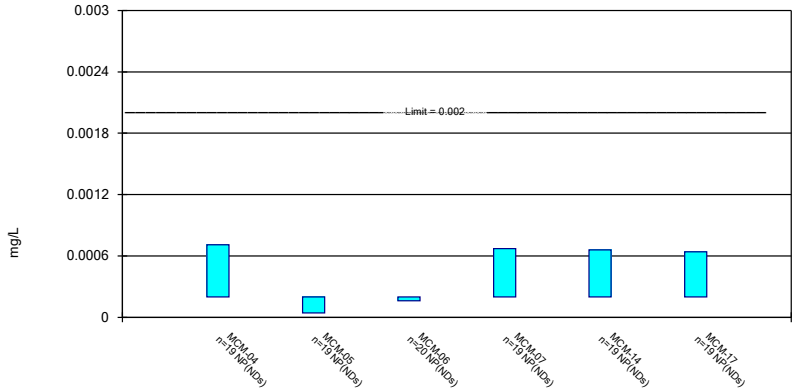


Constituent: Lithium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

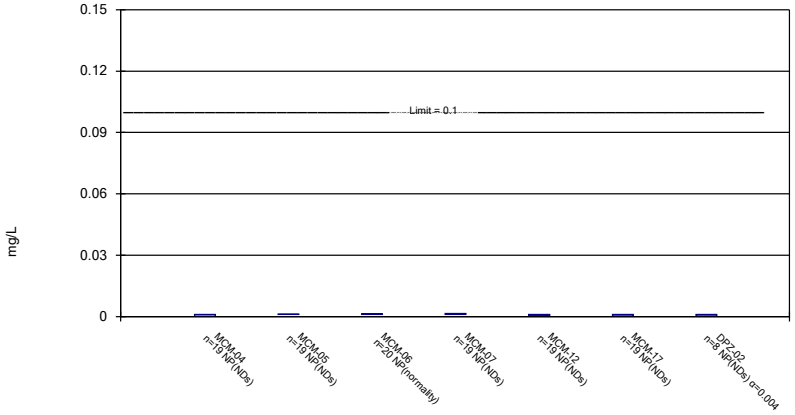


Constituent: Mercury Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

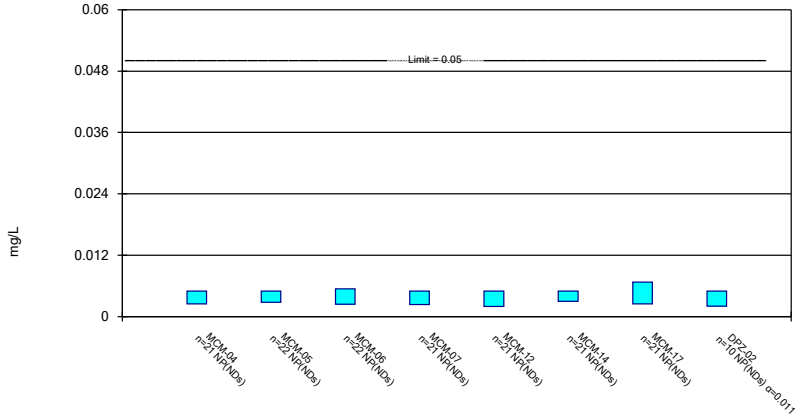


Constituent: Molybdenum Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

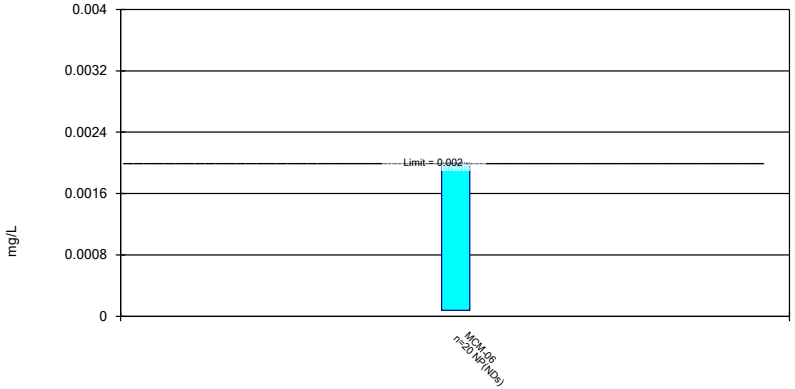


Constituent: Selenium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/21/2025 3:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-14
8/30/2016			<0.003
8/31/2016	<0.003	<0.003	
11/30/2016	<0.003	<0.003	<0.003
2/15/2017			<0.003
2/16/2017	<0.003	<0.003	
5/31/2017			<0.003
6/2/2017	<0.003	<0.003	
8/16/2017			<0.003
8/17/2017	<0.003	<0.003	
6/19/2018			<0.003
6/20/2018	<0.003	<0.003	
9/25/2018			<0.003
9/27/2018	<0.003	<0.003	
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
3/6/2019		<0.003	
8/26/2019			0.0004 (J)
8/28/2019	<0.003	0.00098 (J)	
10/15/2019			<0.003
10/16/2019	<0.003		
10/17/2019		0.0009 (J)	
3/27/2020			<0.003
3/28/2020	<0.003	0.0029 (J)	
9/13/2021			<0.003
9/14/2021	<0.003	<0.003	
3/1/2022	<0.003	<0.003	
3/3/2022			<0.003
9/20/2022		<0.003	
9/21/2022	<0.003		<0.003
3/2/2023	<0.003	<0.003	<0.003
9/12/2023	<0.003		<0.003
9/14/2023		<0.003	
3/20/2024			<0.003
3/21/2024	<0.003	<0.003	
9/11/2024	<0.003		<0.003
9/12/2024		<0.003	
3/17/2025			<0.003
3/19/2025	0.00142 (J)	<0.003	
Mean	0.002917	0.002789	0.002863
Std. Dev.	0.0003625	0.0006329	0.0005965
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00142	0.0029	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.005		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.005	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.005	0.0072	
2/15/2017					<0.005	<0.005	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.005	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.005	<0.005	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.005	<0.005	
10/14/2020			0.44 (D)	0.013		<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.005		
3/3/2021							<0.005	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.005		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.005	<0.005	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.005	<0.005	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.005		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.005		
3/18/2025							<0.005	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							
Mean	0.004466	0.01201	0.08644	0.01421	0.003773	0.003995	0.003931	0.018
Std. Dev.	0.00311	0.01175	0.02347	0.007347	0.001824	0.001764	0.001586	0.006258
Upper Lim.	0.005471	0.0129	0.1258	0.01632	0.005	0.005	0.005	0.02291
Lower Lim.	0.002721	0.00543	0.04712	0.01061	0.0011	0.0022	0.0024	0.01309

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							
Mean	0.06196	0.04423	0.09352	0.1361	0.101	0.08158	0.09378	0.06437
Std. Dev.	0.06287	0.09266	0.05672	0.09097	0.02703	0.05209	0.04536	0.01748
Upper Lim.	0.06847	0.03759	0.124	0.1661	0.1159	0.1103	0.1188	0.07997
Lower Lim.	0.0344	0.01303	0.06308	0.08587	0.08605	0.05285	0.06876	0.04877

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0003 (J)	<0.0005	
8/31/2016		<0.0005	<0.0005			
10/25/2016						0.0004 (J)
11/30/2016		<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)
2/15/2017				0.0004 (J)	<0.0005	<0.0005
2/16/2017		<0.0005	<0.0005			
5/31/2017				0.0005 (J)	0.0001 (J)	0.0002 (J)
6/1/2017	0.0001 (J)					
6/2/2017		<0.0005	<0.0005			
8/2/2017	0.0003 (J)					
8/15/2017				0.0005 (J)		0.0002 (J)
8/16/2017					0.0002 (J)	
8/17/2017	0.0002 (J)	<0.0005	<0.0005			
4/4/2018	<0.0005					
5/8/2018	0.00025 (J)					
6/19/2018				0.00065 (J)	<0.0005	0.00032 (J)
6/20/2018	0.00021 (J)	<0.0005				
6/21/2018			<0.0005			
9/25/2018				0.00066 (J)	5E-05 (J)	
9/26/2018						0.00024 (J)
9/27/2018	0.00031 (J)	<0.0005	7.4E-05 (J)			
11/6/2018	0.00077 (J)		0.00012 (J)		9.7E-05 (J)	0.00026 (J)
11/7/2018		5.4E-05 (J)		0.00058 (J)		
8/26/2019					0.0001 (J)	
8/27/2019	0.00032 (J)			0.0009 (J)		0.00018 (J)
8/28/2019		<0.0005	<0.0005			
10/15/2019	0.00035 (J)			0.00079 (J)	<0.0005	
10/16/2019		<0.0005				0.00014 (J)
10/17/2019			7.8E-05 (J)			
3/27/2020				<0.005	<0.0005	<0.0005
3/28/2020	<0.0005	<0.0005	<0.0005			
10/12/2020				0.001 (J)		
10/13/2020	<0.0005				<0.0005	<0.0005
10/14/2020			<0.0005			
10/15/2020		<0.0005				
1/4/2021		<0.0005				
3/2/2021				<0.005	<0.0005	
3/3/2021						<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				0.0011	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005			<0.0005
3/1/2022		<0.0005				
3/2/2022			<0.0005			
3/3/2022	0.00025			0.0012 (J)	<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	0.0011 (J)	<0.0005	0.00029 (J)
2/28/2023				0.00135 (J)		0.000279 (J)
3/1/2023	<0.0005					
3/2/2023		<0.0005	<0.0005		<0.0005	
9/12/2023		<0.0005		0.00137	<0.0005	
9/13/2023	<0.0005		<0.0005			0.000249 (J)
3/19/2024				0.00145		<0.0005
3/20/2024	0.000208 (J)				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
3/21/2024		<0.0005	<0.0005			
9/10/2024	0.000321 (J)			0.00137		<0.0005
9/11/2024		<0.0005	<0.0005		<0.0005	
3/17/2025				0.00148	<0.0005	
3/18/2025						0.000228 (J)
3/19/2025		<0.0005	<0.0005			
3/20/2025	0.000323 (J)					
Mean	0.0003768	0.0004797	0.0004415	0.001052	0.000407	0.000347
Std. Dev.	0.000157	9.509E-05	0.000147	0.0006128	0.0001722	0.0001337
Upper Lim.	0.0003674	0.0005	0.0005	0.00139	0.0005	0.000281
Lower Lim.	0.0002088	5.4E-05	0.00012	0.0007143	0.0002	0.0002052

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-07
8/31/2016		<0.001
11/30/2016		<0.001
2/16/2017		<0.001
6/1/2017	<0.001	
6/2/2017		<0.001
8/2/2017	<0.001	
8/17/2017	<0.001	<0.001
4/4/2018	<0.001	
5/8/2018	<0.001	
6/20/2018	<0.001	
6/21/2018		<0.001
9/27/2018	<0.001	<0.001
11/6/2018	<0.001	<0.001
8/27/2019	<0.001	
8/28/2019		<0.001
10/15/2019	<0.001	
10/17/2019		<0.001
3/28/2020	<0.001	<0.001
9/14/2021	<0.001	<0.001
3/2/2022		<0.001
3/3/2022	0.00043	
9/21/2022	<0.001	0.0002 (J)
3/1/2023	<0.001	
3/2/2023		<0.001
9/13/2023	<0.001	<0.001
3/20/2024	<0.001	
3/21/2024		<0.001
9/10/2024	<0.001	
9/11/2024		<0.001
3/19/2025		<0.001
3/20/2025	<0.001	
Mean	0.00097	0.0009579
Std. Dev.	0.0001308	0.0001835
Upper Lim.	0.001	0.001
Lower Lim.	0.00043	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					0.0054 (J)	0.0026 (J)	
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)			
10/25/2016							0.016
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)			
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109
6/1/2017	0.0008 (J)						
6/2/2017		<0.01	<0.01	0.0023 (J)			
8/2/2017	0.0012 (J)						
8/15/2017					0.005 (J)		0.0117
8/16/2017						0.0019 (J)	
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)			
4/4/2018	<0.01						
5/8/2018	<0.01						
6/19/2018					0.0047 (J)	<0.01	0.013 (J)
6/20/2018	<0.01	<0.01	<0.01				
6/21/2018				<0.01			
9/25/2018					<0.01	<0.01	
9/26/2018							0.0092 (J)
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)			
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.01
11/7/2018		<0.01	<0.01		<0.01		
3/6/2019			<0.01				
8/26/2019						0.00071 (J)	
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)			
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)	
10/16/2019		0.00057 (J)					0.0063 (J)
10/17/2019			0.0015 (J)	0.0019 (J)			
3/27/2020					<0.01	<0.01	<0.01
3/28/2020	<0.01	<0.01	<0.01	<0.01			
9/13/2021					<0.01	<0.01	
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.01
3/1/2022		<0.01	<0.01				
3/2/2022				<0.01			
3/3/2022	0.00085 (J)				<0.01	<0.01	<0.01
9/20/2022			<0.01				
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)
2/28/2023					0.00663 (J)		0.00623 (J)
3/1/2023	<0.01						
3/2/2023		<0.01	<0.01	<0.01		<0.01	
9/12/2023		<0.01			0.00703 (J)	<0.01	
9/13/2023	<0.01			<0.01			0.00608 (J)
9/14/2023			<0.01				
3/19/2024					0.00689 (J)		0.00466 (J)
3/20/2024	<0.01					<0.01	
3/21/2024		<0.01	<0.01	<0.01			
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)
9/11/2024		<0.01		<0.01		<0.01	
9/12/2024			<0.01				
3/17/2025					0.00739 (J)	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/18/2025							0.00481 (J)
3/19/2025		<0.01	<0.01	<0.01			
3/20/2025	<0.01						
Mean	0.006334	0.006686	0.007757	0.006363	0.007145	0.006462	0.00921
Std. Dev.	0.004422	0.004464	0.003987	0.003944	0.00198	0.004281	0.003593
Upper Lim.	0.01	0.01	0.01	0.01	0.006683	0.01	0.01052
Lower Lim.	0.0013	0.0012	0.0015	0.0023	0.005449	0.0016	0.006083

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					<0.001	0.0006 (J)	
8/31/2016		<0.001	<0.001	<0.001			
10/25/2016							<0.001
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)
2/15/2017					<0.001	<0.001	<0.001
2/16/2017		<0.001	<0.001	<0.001			
5/31/2017					0.0005 (J)	<0.001	<0.001
6/1/2017	<0.001						
6/2/2017		<0.001	<0.001	<0.001			
8/2/2017	<0.001						
8/15/2017					0.0005 (J)		0.0004 (J)
8/16/2017						<0.001	
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					0.00053 (J)	<0.001	<0.001
6/20/2018	<0.001	<0.001	<0.001				
6/21/2018				<0.001			
9/25/2018					<0.001	<0.001	
9/26/2018							<0.001
9/27/2018	<0.001	<0.001	<0.001	<0.001			
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001
11/7/2018		<0.001	<0.001		<0.001		
3/6/2019			<0.001				
8/26/2019						<0.001	
8/27/2019	0.0078				0.0007 (J)		<0.001
8/28/2019		<0.001	<0.001	<0.001			
10/15/2019	0.0085				0.00054 (J)	<0.001	
10/16/2019		<0.001					<0.001
10/17/2019			<0.001	<0.001			
11/20/2019	0.009						
3/27/2020					<0.001	<0.001	<0.001
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001			
10/12/2020					<0.001		
10/13/2020	0.0063					<0.001	<0.001
10/14/2020			<0.001	<0.001			
10/15/2020		0.0019 (J)					
1/4/2021		<0.001					
3/2/2021					<0.001	<0.001	
3/3/2021							<0.001
3/4/2021	0.006	<0.001	<0.001	<0.001			
9/13/2021					<0.001	<0.001	
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001
3/1/2022		<0.001	<0.001				
3/2/2022				<0.001			
3/3/2022	0.0049				<0.001	<0.001	<0.001
9/20/2022			<0.001				
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)
2/28/2023					0.00052 (J)		<0.001
3/1/2023	0.00256 (J)						
3/2/2023		<0.001	<0.001	<0.001		<0.001	
9/12/2023		<0.001			0.000429 (J)	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/13/2023	0.00341			<0.001			<0.001
9/14/2023			<0.001				
3/19/2024					0.000452 (J)		<0.001
3/20/2024	0.00291					<0.001	
3/21/2024		<0.001	<0.001	<0.001			
9/10/2024	0.00238				0.000453 (J)		<0.001
9/11/2024		<0.001		<0.001		<0.001	
9/12/2024			<0.001				
3/17/2025					0.000481 (J)	<0.001	
3/18/2025							<0.001
3/19/2025		<0.001	<0.001	<0.001			
3/20/2025	0.00268						
Mean	0.003647	0.001007	0.0009636	0.0009719	0.0007393	0.000981	0.0009214
Std. Dev.	0.002608	0.0002541	0.0001497	0.0001532	0.0002605	8.729E-05	0.0002101
Upper Lim.	0.005015	0.0019	0.001	0.0011	0.001	0.001	0.001
Lower Lim.	0.002279	0.00026	0.0009	0.00031	0.000481	0.0006	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							
Mean	4.143	2.871	4.989	7.238	2.777	5.339	5.265	7.678
Std. Dev.	2.073	2.003	3.057	2.722	0.8261	2.888	2.657	2.11
Upper Lim.	5.021	3.492	6.676	8.699	3.233	6.889	6.691	9.561
Lower Lim.	2.985	1.756	3.303	5.777	2.321	3.788	3.84	5.795

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							
Mean	0.1232	0.4088	0.2764	0.377	1.164	0.2101	0.681	0.1699
Std. Dev.	0.1081	0.2252	0.2398	0.3271	0.3136	0.1703	0.5074	0.2176
Upper Lim.	0.12	0.5236	0.3147	0.692	1.326	0.294	1.2	0.11
Lower Lim.	0.0941	0.2939	0.114	0.1	1.067	0.1	0.1	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0001 (J)	<0.002	
8/31/2016	<0.002	<0.002	<0.002			
10/25/2016						<0.002
11/30/2016	0.0002 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2017				<0.002	<0.002	<0.002
2/16/2017	<0.002	<0.002	0.0002 (J)			
5/31/2017				9E-05 (J)	<0.002	<0.002
6/2/2017	<0.002	<0.002	<0.002			
8/15/2017				<0.002		0.0002 (J)
8/16/2017					8E-05 (J)	
8/17/2017	<0.002	<0.002	8E-05 (J)			
6/19/2018				<0.002	<0.002	<0.002
6/20/2018	<0.002	<0.002				
6/21/2018			<0.002			
9/25/2018				<0.002	<0.002	
9/26/2018						<0.002
9/27/2018	<0.002	<0.002	<0.002			
11/6/2018			<0.002		<0.002	<0.002
11/7/2018	<0.002	<0.002		<0.002		
3/6/2019		<0.002				
8/26/2019					<0.002	
8/27/2019				0.00022 (J)		0.00014 (J)
8/28/2019	<0.002	<0.002	0.0001 (J)			
10/15/2019				5.6E-05 (J)	<0.002	
10/16/2019	<0.002					0.00034 (J)
10/17/2019		0.00012 (J)	<0.002			
3/27/2020				<0.002	<0.002	<0.002
3/28/2020	<0.002	<0.002	<0.002			
10/12/2020				<0.002		
10/13/2020					<0.002	<0.002
10/14/2020		<0.002	<0.002			
10/15/2020	<0.002					
1/4/2021	<0.002					
3/2/2021				<0.002	<0.002	
3/3/2021						<0.002
3/4/2021	<0.002	<0.002	<0.002			
9/13/2021				<0.002	<0.002	
9/14/2021	<0.002	<0.002	<0.002			<0.002
3/1/2022	<0.002	<0.002				
3/2/2022			<0.002			
3/3/2022				<0.002	<0.002	<0.002
9/20/2022		<0.002				
9/21/2022	<0.002		<0.002	0.00083 (J)	<0.002	<0.002
2/28/2023				<0.002		<0.002
3/2/2023	<0.002	<0.002	<0.002		<0.002	
9/12/2023	<0.002			<0.002	<0.002	
9/13/2023			<0.002			<0.002
9/14/2023		<0.002				
3/19/2024				<0.002		<0.002
3/20/2024					<0.002	
3/21/2024	<0.002	<0.002	<0.002			
9/10/2024				<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/11/2024	<0.002		<0.002		<0.002	
9/12/2024		<0.002				
3/17/2025				<0.002	<0.002	
3/18/2025						<0.002
3/19/2025	<0.002	<0.002	<0.002			
Mean	0.001918	0.001915	0.001732	0.001586	0.001909	0.001747
Std. Dev.	0.0003838	0.0004008	0.000672	0.0007735	0.000419	0.0006367
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0002	0.00012	0.0002	0.00083	8E-05	0.00034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							
Mean	0.006929	0.05375	0.04977	0.03642	0.01004	0.03193	0.02112	0.07817
Std. Dev.	0.004041	0.1157	0.009955	0.0318	0.002407	0.0176	0.008305	0.02517
Upper Lim.	0.01	0.0367	0.06344	0.0403	0.01137	0.04113	0.02571	0.09268
Lower Lim.	0.0019	0.022	0.03609	0.01967	0.009123	0.02272	0.01654	0.07174

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
8/30/2016					<0.0002	
8/31/2016		<0.0002	<0.0002	<0.0002		
10/25/2016						<0.0002
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/15/2017					<0.0002	<0.0002
2/16/2017		<0.0002	<0.0002	<0.0002		
5/31/2017					<0.0002	<0.0002
6/1/2017	<0.0002					
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002		
8/2/2017	<0.0002					
8/15/2017						<0.0002
8/16/2017					<0.0002	
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002					
5/8/2018	<0.0002					
6/19/2018					<0.0002	<0.0002
6/20/2018	<0.0002	<0.0002	<0.0002			
6/21/2018				<0.0002		
9/25/2018					<0.0002	
9/26/2018						<0.0002
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
11/6/2018	0.00071			0.00067	0.00066	0.00064
11/7/2018		<0.0002	<0.0002			
3/6/2019			<0.0002			
8/26/2019					<0.0002	
8/27/2019	<0.0002					<0.0002
8/28/2019		<0.0002	<0.0002	<0.0002		
10/15/2019	<0.0002				<0.0002	
10/16/2019		<0.0002				<0.0002
10/17/2019			<0.0002	<0.0002		
3/27/2020					<0.0002	<0.0002
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/13/2021					<0.0002	
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002		<0.0002
3/1/2022		<0.0002	<0.0002			
3/2/2022				<0.0002		
3/3/2022	<0.0002				<0.0002	<0.0002
9/20/2022			<0.0002			
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2023						<0.0002
3/1/2023	<0.0002					
3/2/2023		<0.0002	<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002	
9/13/2023	<0.0002			<0.0002		<0.0002
9/14/2023			<0.0002			
3/19/2024						<0.0002
3/20/2024	<0.0002				<0.0002	
3/21/2024		<0.0002	<0.0002	<0.0002		
9/10/2024	<0.0002					<0.0002
9/11/2024		<0.0002		<0.0002	<0.0002	
9/12/2024			<0.0002			
3/17/2025					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
3/18/2025						<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002		
3/20/2025	<0.0002					
Mean	0.0002268	0.0001917	0.000198	0.0002247	0.0002242	0.0002232
Std. Dev.	0.000117	3.625E-05	8.944E-06	0.0001078	0.0001055	0.0001009
Upper Lim.	0.00071	0.0002	0.0002	0.00067	0.00066	0.00064
Lower Lim.	0.0002	4.2E-05	0.00016	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
8/30/2016					<0.001		
8/31/2016		<0.001	<0.001	<0.001			
10/25/2016						<0.001	
11/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2017					<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001			
5/31/2017					<0.001	<0.001	
6/1/2017	<0.001						
6/2/2017		<0.001	<0.001	<0.001			
8/2/2017	<0.001						
8/15/2017					<0.001	<0.001	
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.001			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001				
6/21/2018				<0.001			
9/25/2018					<0.001		
9/26/2018						<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001			
11/6/2018	<0.001			<0.001		<0.001	
11/7/2018		<0.001	0.0024 (J)		<0.001		
3/6/2019			<0.001				
8/27/2019	<0.001				<0.001	<0.001	
8/28/2019		<0.001	0.0017 (J)	<0.001			
10/15/2019	<0.001				<0.001		
10/16/2019		<0.001				<0.001	
10/17/2019			0.0017 (J)	<0.001			
3/27/2020					<0.001	<0.001	
3/28/2020	<0.001	<0.001	<0.001	<0.001			
9/13/2021					<0.001		
9/14/2021	<0.001	0.0099 (J)	<0.001	<0.001		<0.001	<0.001
3/1/2022		<0.001	<0.001				<0.001
3/2/2022				<0.001			
3/3/2022	0.00015 (J)				<0.001	<0.001	
9/20/2022			0.0013 (J)				<0.001
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.001	<0.001	
2/28/2023					0.000362 (J)	0.000313 (J)	
3/1/2023	<0.001						
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)			0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)		
9/13/2023	<0.001			0.000847 (J)		0.000217 (J)	
9/14/2023			0.000839 (J)				<0.001
3/19/2024					0.00055 (J)	0.00102 (J)	
3/20/2024	<0.001						
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)			<0.001
9/10/2024	<0.001				0.000276 (J)	<0.001	
9/11/2024		0.00113		0.000949 (J)			0.000217 (J)
9/12/2024			0.000895 (J)				
3/17/2025					0.00044 (J)		
3/18/2025						0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
3/20/2025	<0.001						
Mean	0.0009553	0.001504	0.001226	0.0009874	0.0008448	0.0008858	0.0007215
Std. Dev.	0.000195	0.002043	0.0004813	0.00015	0.0002711	0.0002745	0.0003852
Upper Lim.	0.001	0.00113	0.00131	0.00146	0.001	0.00102	0.001
Lower Lim.	0.00015	0.00095	0.000983	0.00095	0.00044	0.000313	0.000217

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.005		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.005	0.0023 (J)	<0.005	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.005	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.005	<0.005	<0.005				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.005	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.005	<0.005	
6/20/2018	<0.005	<0.005	<0.005					
6/21/2018				<0.005				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.005	<0.005	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.005	
11/7/2018		<0.005	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.005	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.005					<0.005	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.005	<0.005	
3/28/2020	<0.005	<0.005	<0.005	<0.005				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.005	<0.005	
10/14/2020			<0.005	<0.005				
10/15/2020		0.0028 (J)						<0.005
1/4/2021		<0.005						
3/2/2021					<0.005	<0.005		
3/3/2021							<0.005	
3/4/2021	0.00038 (J)	<0.005	<0.005	<0.005				<0.005
9/13/2021					<0.005	<0.005		
9/14/2021	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
3/1/2022		<0.005	<0.005					<0.005
3/2/2022				<0.005				
3/3/2022	0.00012 (J)				<0.005	<0.005	<0.005	
9/20/2022			<0.005					<0.005
9/21/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.005	<0.005	0.00238 (J)		<0.005		0.00205 (J)
9/12/2023		<0.005			<0.005	<0.005		
9/13/2023	<0.005			<0.005			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.005					<0.005
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.005		
3/21/2024		<0.005	<0.005	<0.005				<0.005
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		<0.005		<0.005		<0.005		0.00176 (J)
9/12/2024			<0.005					
3/17/2025					<0.005	<0.005		
3/18/2025							<0.005	<0.005
3/19/2025		<0.005	<0.005	0.00157 (J)				
3/20/2025	<0.005							
Mean	0.004429	0.004505	0.0045	0.004083	0.003799	0.004348	0.004426	0.004381
Std. Dev.	0.001493	0.001085	0.001578	0.001332	0.001585	0.001316	0.00176	0.001307
Upper Lim.	0.005	0.005	0.0054	0.005	0.005	0.005	0.0067	0.005
Lower Lim.	0.0025	0.0028	0.0024	0.00238	0.002	0.003	0.0025	0.00205

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 3:59 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-06
8/31/2016	<0.002
11/30/2016	<0.002
2/16/2017	<0.002
6/2/2017	<0.002
8/17/2017	<0.002
6/20/2018	<0.002
9/27/2018	<0.002
11/7/2018	<0.002
3/6/2019	<0.002
8/28/2019	<0.002
10/17/2019	7.6E-05 (J)
3/28/2020	<0.002
9/14/2021	<0.002
3/1/2022	<0.002
9/20/2022	<0.002
3/2/2023	<0.002
9/14/2023	<0.002
3/21/2024	<0.002
9/12/2024	<0.002
3/19/2025	<0.002
Mean	0.001904
Std. Dev.	0.0004302
Upper Lim.	0.002
Lower Lim.	7.6E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE K.

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/22/2025, 2:35 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.08445**	**-47**	**-34**	**Yes**	**13**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.003838**	**-36**	**-30**	**Yes**	**12**	**8.333**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

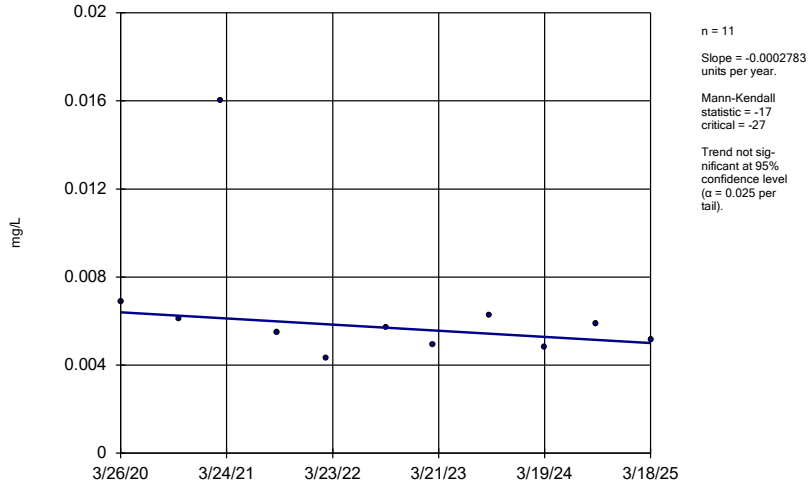
Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/22/2025, 2:35 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0002783	-17	-27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	7	27	No	11	81.82	n/a	0.05	NP
Arsenic (mg/L)	MCM-11 (bg)	0.001803	26	27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-15 (bg)	0.0005769	15	27	No	11	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	7	27	No	11	72.73	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0001821	-46	-49	No	17	11.76	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001282	9	49	No	17	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0007171	-22	-49	No	17	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.08445**	**-47**	**-34**	**Yes**	**13**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	27	No	11	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	3	27	No	11	72.73	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	2	27	No	11	90.91	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	19	41	No	15	60	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.00001213	9	49	No	17	5.882	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0	4	49	No	17	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.003838**	**-36**	**-30**	**Yes**	**12**	**8.333**	**n/a**	**0.05**	**NP**

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Sen's Slope Estimator

MCM-01 (bg)



n = 11

Slope = -0.0002783 units per year.

Mann-Kendall statistic = -17 critical = -27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

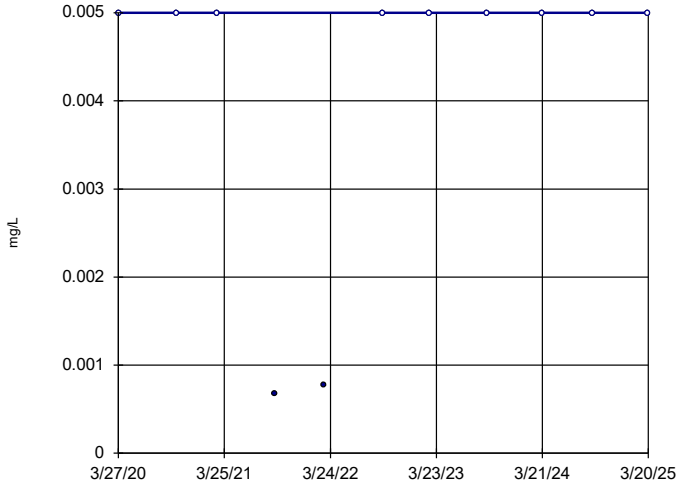
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 27

Trend not significant at 95% confidence level (α = 0.025 per tail).

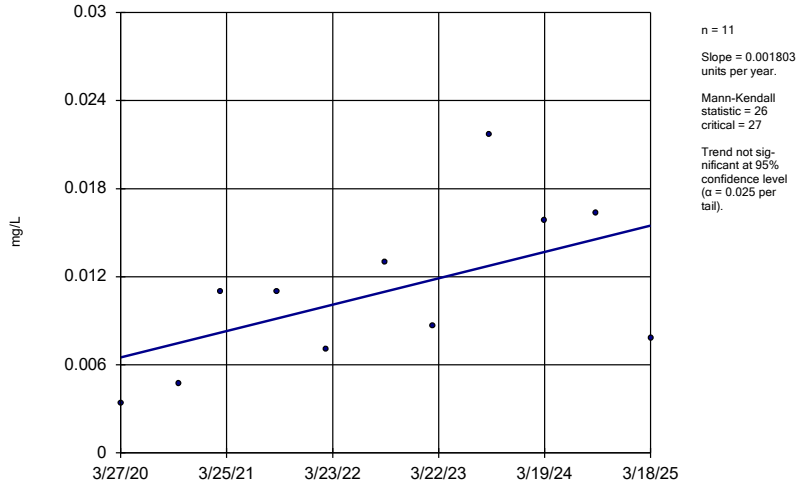
Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-11 (bg)



n = 11

Slope = 0.001803 units per year.

Mann-Kendall statistic = 26 critical = 27

Trend not significant at 95% confidence level (α = 0.025 per tail).

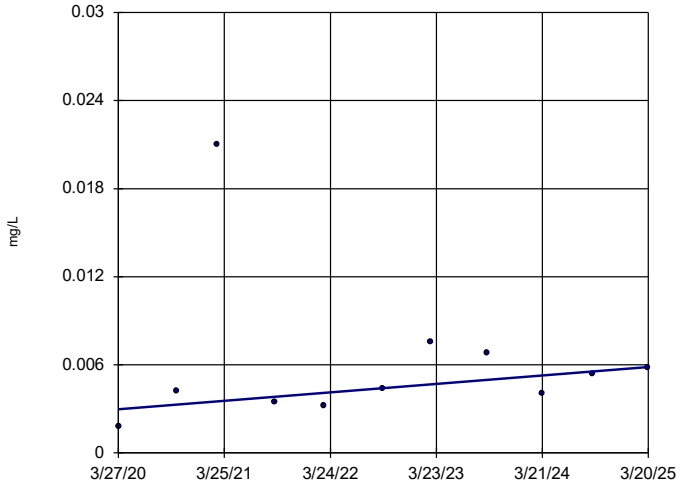
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Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-15 (bg)



n = 11

Slope = 0.0005769 units per year.

Mann-Kendall statistic = 15 critical = 27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

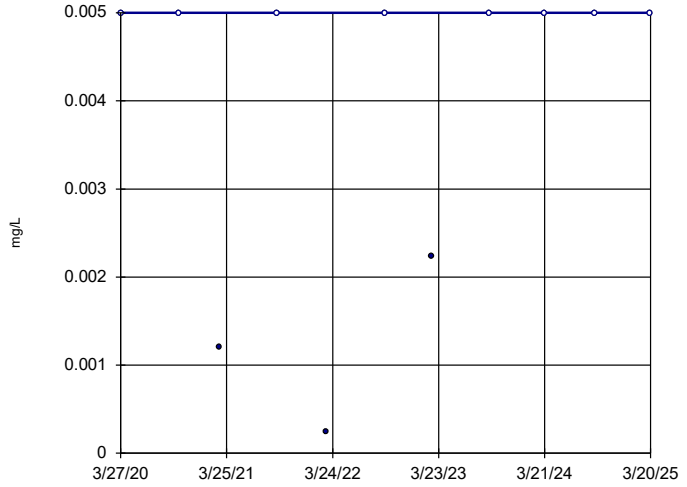
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

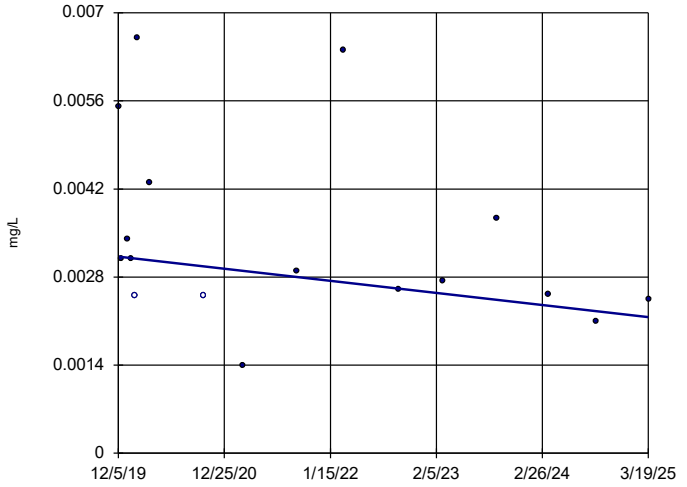
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 17

Slope = -0.0001821 units per year.

Mann-Kendall statistic = -46 critical = -49

Trend not significant at 95% confidence level (α = 0.025 per tail).

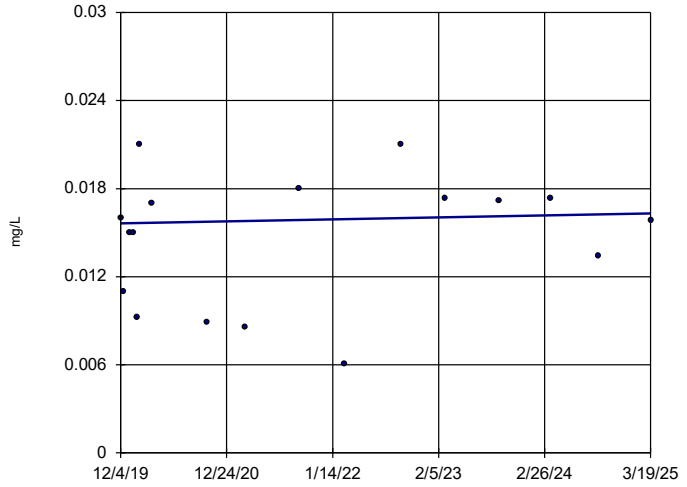
Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-19 (bg)



n = 17

Slope = 0.0001282 units per year.

Mann-Kendall statistic = 9 critical = 49

Trend not significant at 95% confidence level (α = 0.025 per tail).

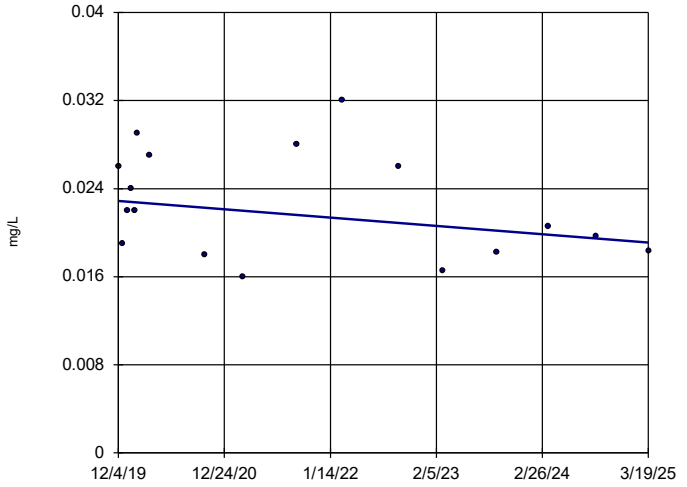
Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-20 (bg)



n = 17

Slope = -0.0007171 units per year.

Mann-Kendall statistic = -22 critical = -49

Trend not significant at 95% confidence level (α = 0.025 per tail).

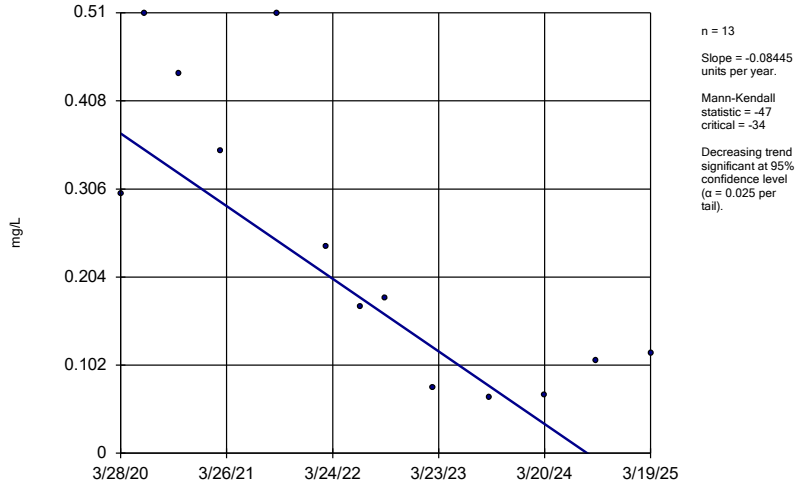
Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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Sen's Slope Estimator

MCM-06



n = 13

Slope = -0.08445 units per year.

Mann-Kendall statistic = -47
critical = -34

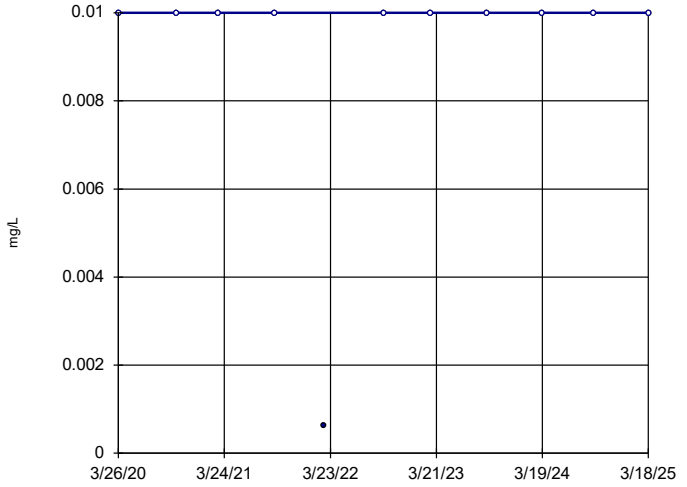
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 27

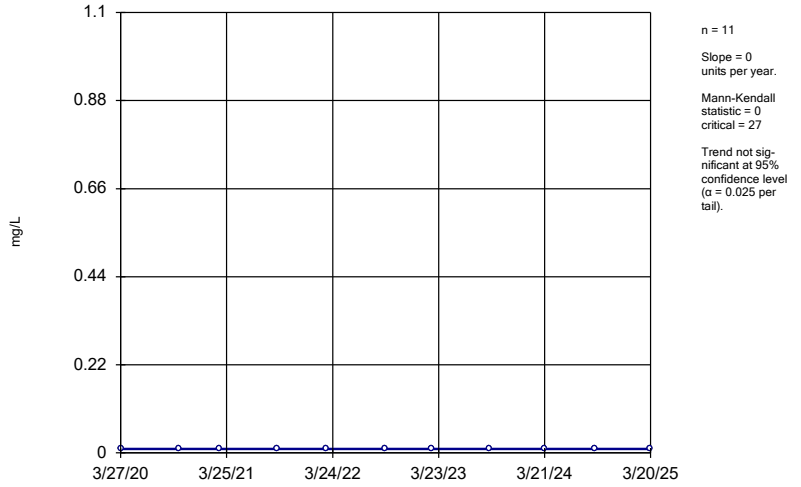
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 27

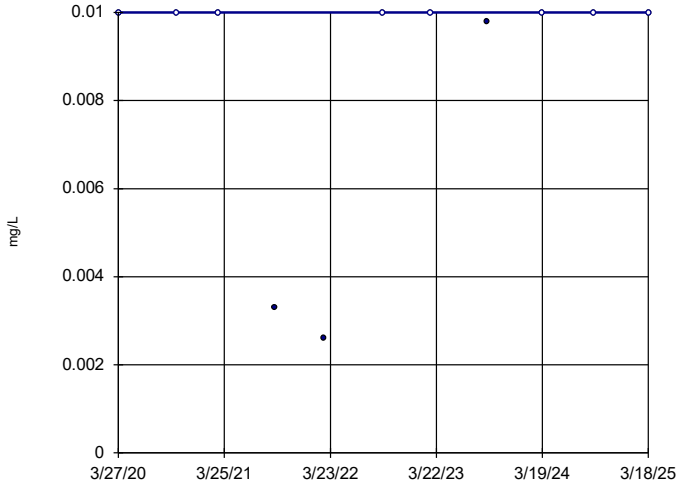
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 27

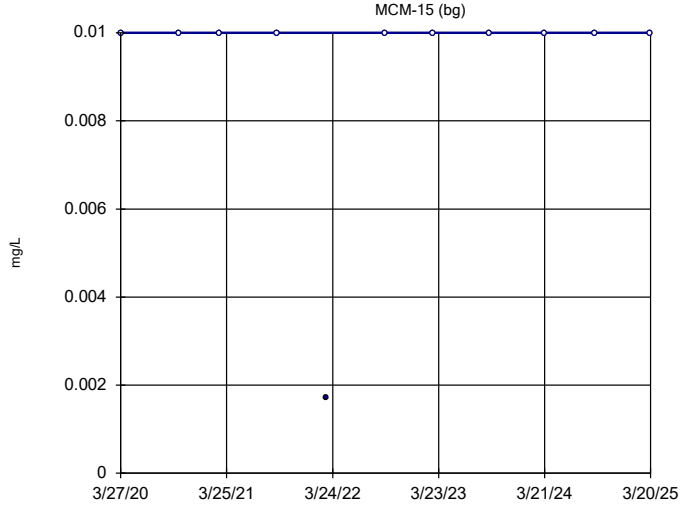
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 11

Slope = 0
units per year.

Mann-Kendall
statistic = 2
critical = 27

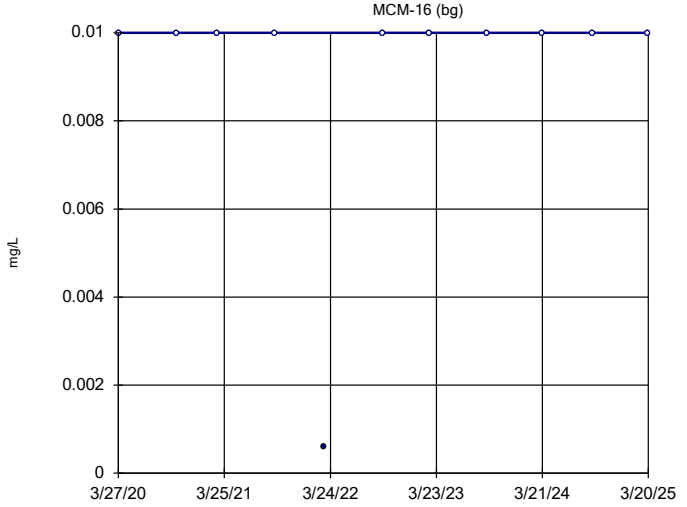
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 11

Slope = 0
units per year.

Mann-Kendall
statistic = 2
critical = 27

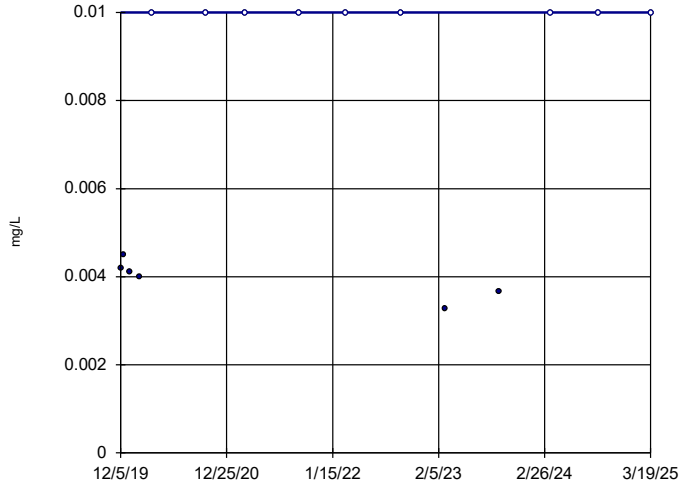
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 19
critical = 41

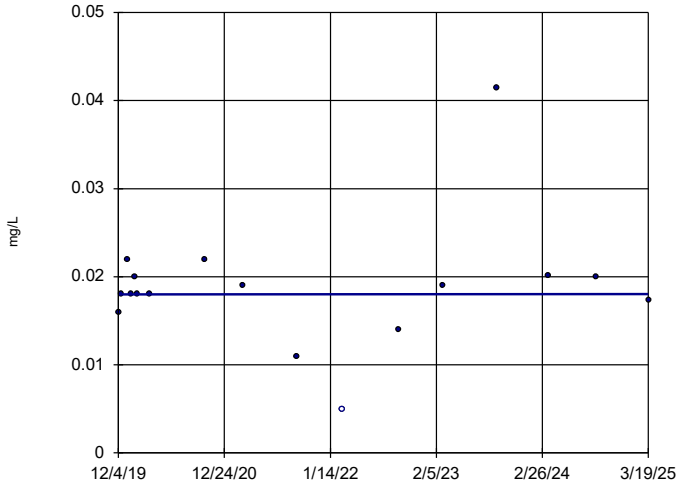
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 17

Slope = 0.00001213
units per year.

Mann-Kendall
statistic = 9
critical = 49

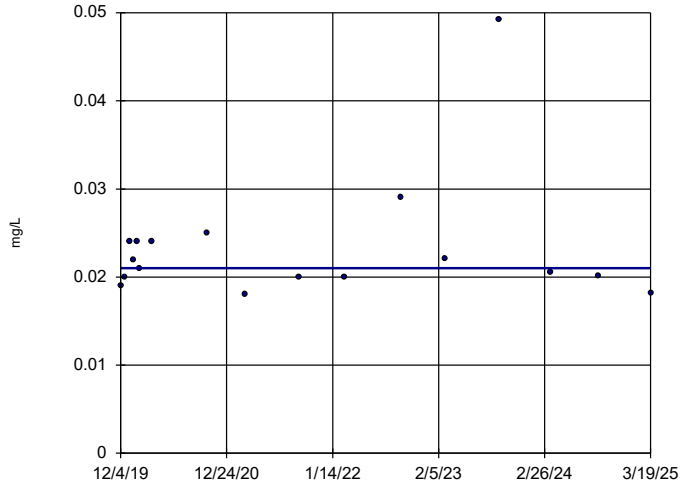
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-20 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 49

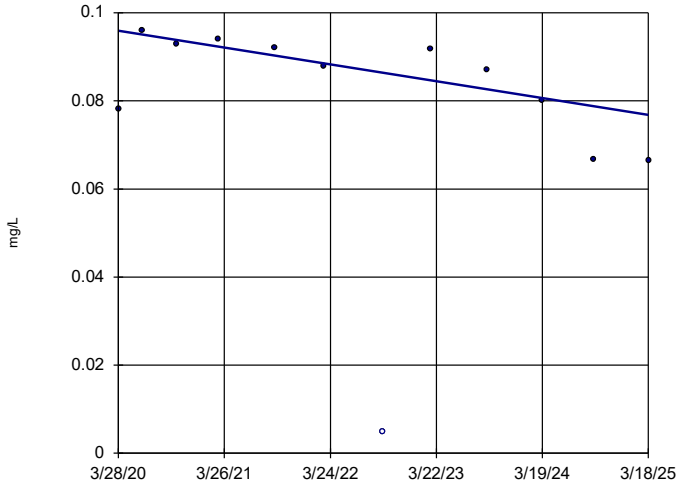
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DPZ-02



n = 12

Slope = -0.003838 units per year.

Mann-Kendall statistic = -36
critical = -30

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/22/2025 2:32 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

APPENDIX E

ANNUAL POTABLE WELL SURVEY

ENSAFE
creative thinking. custom solutions.

Mcmanus
Crispin Blvd
Brunswick, GA 31523

Inquiry Number: 7826608.1s
November 19, 2024

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Map Findings ---- **A-11**

Physical Setting Source Records Searched ---- **PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

MCMANUS
CRISPIN BLVD
BRUNSWICK, GA 31523

TARGET PROPERTY COORDINATES

Latitude (North):	31.215321 - 31° 12' 55.16''
Longitude (West):	81.545956 - 81° 32' 45.44''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	447995.8
UTM Y (Meters):	3453409.0
Elevation:	4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	31081-B5 BRUNSWICK WEST, GA
Version Date:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

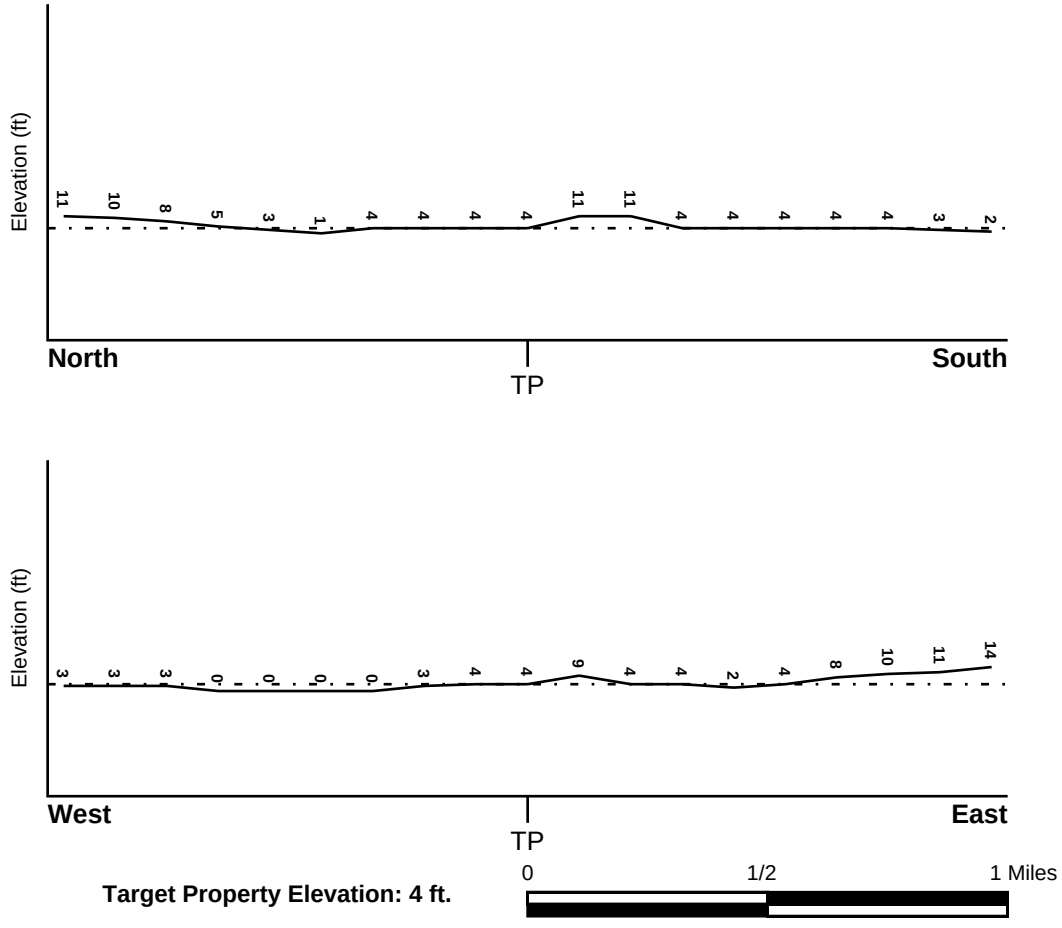
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 4 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13127C0208F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13127C0205F	FEMA FIRM Flood data
13127C0206F	FEMA FIRM Flood data
13039C0075F	FEMA FIRM Flood data
13127C0209F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BRUNSWICK WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7826608.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Crispin Blvd Brunswick GA 31523	CONTACT:	Rebecca Steever
LAT/LONG:	31.215321 / 81.545956	INQUIRY #:	7826608.1s
		DATE:	November 19, 2024 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mandarin

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 77 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
2	18 inches	33 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
3	33 inches	61 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
4	61 inches	79 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Bohicket

Soil Surface Texture: stratified silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	stratified silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	64 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Map ID: 4

Soil Component Name: Sapelo

Soil Surface Texture: fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
2	16 inches	25 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	25 inches	48 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
4	48 inches	83 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	1.000
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	USGS40000255109	0 - 1/8 Mile SSW
B6	USGS40000255126	1/2 - 1 Mile East
C8	USGS40000255200	1/2 - 1 Mile NNE
C10	USGS40000255199	1/2 - 1 Mile NNE
D12	USGS40000255150	1/2 - 1 Mile ENE
E15	USGS40000255133	1/2 - 1 Mile East
F17	USGS40000255192	1/2 - 1 Mile NE
G19	USGS40000255185	1/2 - 1 Mile NE
H22	USGS40000255223	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I24	USGS40000255124	1/2 - 1 Mile East
G25	USGS40000255189	1/2 - 1 Mile NE
J28	USGS40000255142	1/2 - 1 Mile ENE
J31	USGS40000255151	1/2 - 1 Mile ENE
G32	USGS40000255198	1/2 - 1 Mile NE
K34	USGS40000255221	1/2 - 1 Mile NNE
L37	USGS40000255235	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

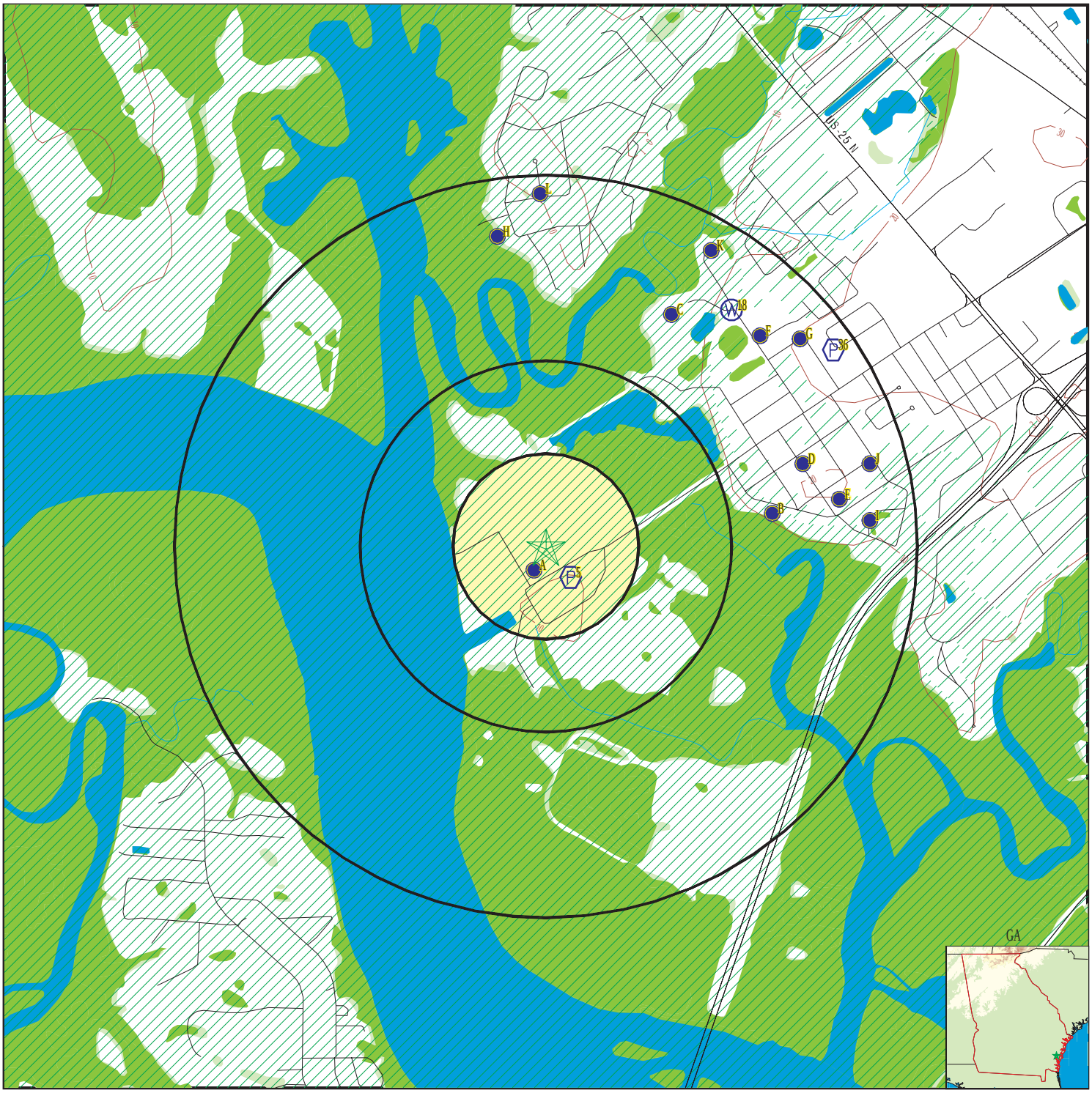
MAP ID	WELL ID	LOCATION FROM TP
5	GA1270027	0 - 1/8 Mile SE
36	GA1270058	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	0000005276	0 - 1/8 Mile SSW
A2	0000005277	0 - 1/8 Mile SSW
A3	0000005278	0 - 1/8 Mile SSW
B7	0000005287	1/2 - 1 Mile East
C9	0000005325	1/2 - 1 Mile NNE
C11	0000005324	1/2 - 1 Mile NNE
D13	0000005297	1/2 - 1 Mile ENE
E14	0000005289	1/2 - 1 Mile East
F16	0000005320	1/2 - 1 Mile NE
18	GAPR01000000052	1/2 - 1 Mile NE
G20	0000005317	1/2 - 1 Mile NE
H21	0000005339	1/2 - 1 Mile North
I23	0000005286	1/2 - 1 Mile East
G26	0000005318	1/2 - 1 Mile NE
G27	0000005319	1/2 - 1 Mile NE
J29	0000005292	1/2 - 1 Mile ENE
J30	0000005298	1/2 - 1 Mile ENE
G33	0000005323	1/2 - 1 Mile NE
K35	0000005338	1/2 - 1 Mile NNE
L38	0000005350	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 7826608.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
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		DATE:	November 19, 2024 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005276**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	117.00
Casing dia:	12.00	Casing matl:	S
Depth to top:	600.00	Depth to bot:	983.00
Opening type:	X	Constr date:	19510312
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005276

A2
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005277**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	464.00
Casing dia:	8.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005277

A3
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005278**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	600.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005278

A4
SSW
0 - 1/8 Mile
Higher

FED USGS **USGS40000255109**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H051	Type:	Well
Description:	MCMANUS GA POWER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Not Reported	Construction Date:	19510312
Well Depth:	983	Well Depth Units:	ft
Well Hole Depth:	990	Well Hole Depth Units:	ft

5
SE
0 - 1/8 Mile
Higher

FRDS PWS GA1270027

Epa region:	04	State:	GA
Pwsid:	GA1270027	Pwsname:	GEORGIA POWER-PLANT MCMANUS
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	40
Pwssvcconn:	16	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BLALOCK, TANYA D.	Contactorgname:	BLALOCK, TANYA D.
Contactphone:	404-506-7026	Contactaddress1:	241 RALPH MCGILL BLVD.
Contactaddress2:	BIN 10221	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30308-3374
Pwsactivitycode:	A		

Pwsid:	GA1270027	Facid:	1067
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270027	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	GEORGIA POWER-PLANT MCMANUS
PWS type code:	NTNC	Retail population served:	40
Contact:	HOWELL, DANNY	Contact address:	ONE CRISPEN ISLAND
Contact address:	BRUNSWICK	Contact city:	GA
Contact state:	31	Contact zip:	912-261-32
Contact telephone:	Not Reported		

PWS ID:	GA1270027	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000046	System name:	GEORGIA POWER-PLANT MCMANUS
System address:	GEORGIA POWER PLANT MCMANUS		
System address:	ONE CRISPEN ISLAND	System city:	BRUNSWICK
System state:	GA	System zip:	31520

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311250	Longitude:	0813242

Violation id:	10204	Orig code:	S
State:	GA	Violation Year:	1994
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1994
Cmp edt:	Not Reported		

Violation id:	10307	Orig code:	S

State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	09/30/2006		

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	11/28/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	12/8/2000 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	2/3/1999 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name: GEORGIA POWER-PLANT MCMANUS

Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	11/28/2006 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

B6
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255126**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H233	Type:	Well
Description:	RANDY MCDONALD	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19910122
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-05-15
Feet below surface:	5.70	Feet to sea level:	Not Reported
Note:	Not Reported		

B7
East
1/2 - 1 Mile
Higher

GA WELLS **0000005287**

County code:	127	Well num:	33H233
Remarks:	RANDY MCDONALD	Lat:	311259
Lon:	0813209	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	152
Casing dia:	4	Casing matl:	P
Depth to top:	152	Depth to bot:	200
Opening type:	X	Constr date:	19910122
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005287

C8
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255200**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H199	Type:	Well
Description:	SAPP, WOODROW SR.	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Miocene Series
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	2.05	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	1.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	3.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	3.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	3.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	3.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	3.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-21	Feet below surface:	4.33
Feet to sea level:	Not Reported	Note:	Not Reported

C9
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005325**

County code:	127	Well num:	33H199
Remarks:	SAPP, WOODROW SR.	Lat:	311327
Lon:	0813226	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	122MOCN	Edr id:	0000005325

C10
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255199**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H242	Type:	Well
Description:	BOBBY SAPP	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19881103
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-29
Feet below surface:	4.92	Feet to sea level:	Not Reported
Note:	Not Reported		

C11
NNE **GA WELLS** **0000005324**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H242
Remarks:	BOBBY SAPP	Lat:	311327
Lon:	0813225	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	158
Casing dia:	4	Casing matl:	S
Depth to top:	158	Depth to bot:	200
Opening type:	X	Constr date:	19881103
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005324

D12
ENE **FED USGS** **USGS40000255150**
1/2 - 1 Mile
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H279	Type:	Well
Description:	JOYCE GOOGE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19890909
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-17
Feet below surface:	12.90	Feet to sea level:	Not Reported
Note:	Not Reported		

D13
ENE **GA WELLS** **0000005297**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H279
Remarks:	JOYCE GOOGE	Lat:	311306
Lon:	0813204	Latlon datum:	NAD27
Alt:	17.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	166
Casing dia:	4.0	Casing matl:	G
Depth to top:	166	Depth to bot:	200
Opening type:	X	Constr date:	19890909
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005297

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E14
East
1/2 - 1 Mile
Higher

GA WELLS **0000005289**

County code:	127	Well num:	33H253
Remarks:	RANDALL HOWELL	Lat:	311301
Lon:	0813158	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	180	Depth to casing:	151
Casing dia:	4.5	Casing matl:	P
Depth to top:	151	Depth to bot:	180
Opening type:	X	Constr date:	19900726
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005289

E15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255133**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H253	Type:	Well
Description:	RANDALL HOWELL	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900726
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	15.37	Feet to sea level:	Not Reported
Note:	Not Reported		

F16
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005320**

County code:	127	Well num:	33H281
Remarks:	STAN BOATRIGHT	Lat:	311324
Lon:	0813211	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	200	Depth to casing:	156
Casing dia:	4	Casing matl:	S
Depth to top:	156	Depth to bot:	200
Opening type:	X	Constr date:	19890805
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005320

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F17
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255192**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H281	Type:	Well
Description:	STAN BOATRIGHT	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19890805
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-08-05
Feet below surface:	11	Feet to sea level:	Not Reported
Note:	Not Reported		

18
NE
1/2 - 1 Mile
Higher

GA WELLS **GAPR01000000052**

Report ID:	1	Well Type:	Drilled Well
Well Age (yrs):	2	Well Depth (ft):	0
Coliform Test:	Satisfactory	Date Taken:	19-MAY-22
Results Date:	20-MAY-22	Coliform Present:	No
Fecal Present:	No		

G19
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255185**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H315	Type:	Well
Description:	A. R. SADTLER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900711
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	200	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	13.69	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G20
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005317**

County code:	127	Well num:	33H315
Remarks:	A. R. SADTLER	Lat:	311322
Lon:	0813206	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	157
Casing dia:	4.5	Casing matl:	P
Depth to top:	157	Depth to bot:	200
Opening type:	X	Constr date:	19900711
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005317

H21
North
1/2 - 1 Mile
Higher

GA WELLS **0000005339**

County code:	127	Well num:	33H294
Remarks:	MICHAEL DOWDY	Lat:	311338
Lon:	0813254	Latlon datum:	NAD27
Alt:	5	Alt datum:	NGVD29
Depth:	160	Depth to casing:	120
Casing dia:	4.5	Casing matl:	P
Depth to top:	120	Depth to bot:	160
Opening type:	X	Constr date:	19900509
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005339

H22
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255223**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H294	Type:	Well
Description:	MICHAEL DOWDY	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900509
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-09
Feet below surface:	-.46	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I23
East
1/2 - 1 Mile
Higher

GA WELLS **0000005286**

County code:	127	Well num:	33H280
Remarks:	BOB BOWERS	Lat:	311258
Lon:	0813153	Latlon datum:	NAD27
Alt:	17.5	Alt datum:	NGVD29
Depth:	200	Depth to casing:	153
Casing dia:	4	Casing matl:	S
Depth to top:	153	Depth to bot:	200
Opening type:	X	Constr date:	19890504
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005286

I24
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255124**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H280	Type:	Well
Description:	BOB BOWERS	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19890504
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-05-04
Feet below surface:	10	Feet to sea level:	Not Reported
Note:	Not Reported		

G25
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255189**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H132	Type:	Well
Description:	OAK BLUFF SUBDIVISON	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19631001
Well Depth:	736	Well Depth Units:	ft
Well Hole Depth:	736	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005318**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	100.00
Casing dia:	4.00	Casing matl:	Not Reported
Depth to top:	499.00	Depth to bot:	736.00
Opening type:	X	Constr date:	19631001
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005318

G27
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005319**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	499.00
Casing dia:	3.00	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005319

J28
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255142**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H197	Type:	Well
Description:	JOE NELSON (SHALLOW)	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	1975
Well Depth:	260	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	9.65	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	8.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	8.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-01-25	Feet below surface:	9.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	9.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	11.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-24	Feet below surface:	11.45
Feet to sea level:	Not Reported	Note:	Not Reported

J29
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005292**

County code:	127	Well num:	33H197
Remarks:	JOE NELSON (SHALLOW)	Lat:	311305
Lon:	0813153	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	260	Depth to casing:	240
Casing dia:	2	Casing matl:	Not Reported
Depth to top:	240	Depth to bot:	260
Opening type:	X	Constr date:	1975
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005292

J30
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005298**

County code:	127	Well num:	33H254
Remarks:	TERRY RAPE	Lat:	311307
Lon:	0813153	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	220	Depth to casing:	156
Casing dia:	4.5	Casing matl:	P
Depth to top:	156	Depth to bot:	220
Opening type:	X	Constr date:	19900720
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005298

J31
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255151**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H254	Type:	Well
Description:	TERRY RAPE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900720
Well Depth:	220	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1990-07-20
Feet below surface:	18	Feet to sea level:	Not Reported
Note:	Not Reported		

G32
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255198**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H198	Type:	Well
Description:	H. O. NAIL	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19820401
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	14	Level reading date:	1990-05-19
Feet below surface:	17.10	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1988-05-23	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-14	Feet below surface:	13.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-13	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-09	Feet below surface:	12.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-17	Feet below surface:	10.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	10.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	12.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	12.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	12.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	12.63
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-06-22	Feet below surface:	13.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-19	Feet below surface:	14.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-18	Feet below surface:	13
Feet to sea level:	Not Reported	Note:	Not Reported

G33
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005323**

County code:	127	Well num:	33H198
Remarks:	H. O. NAIL	Lat:	311326
Lon:	0813205	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	180	Depth to casing:	152
Casing dia:	4	Casing matl:	Not Reported
Depth to top:	152	Depth to bot:	180
Opening type:	X	Constr date:	19820401
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005323

K34
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255221**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H318	Type:	Well
Description:	GARY LANE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1988
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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K35
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005338**

County code:	127	Well num:	33H318
Remarks:	GARY LANE	Lat:	311336
Lon:	0813219	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	4	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1988
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005338

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

36
NE
1/2 - 1 Mile
Higher

FRDS PWS **GA1270058**

Epa region:	04	State:	GA
Pwsid:	GA1270058	Pwsname:	OAK ACRES SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	36
Pwssvcconn:	14	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	SAPP, JR, WOODROW	Contactorgname:	SAPP, JR, WOODROW
Contactphone:	912-265-2603	Contactaddress1:	4774 NEW JESUP HIGHWAY
Contactaddress2:	Not Reported	Contactcity:	BRUNSWICK
Contactstate:	GA	Contactzip:	31520
Pwsactivitycode:	A		

Pwsid:	GA1270058	Facid:	1080
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270058	PWS name:	OAK ACRES SUBDIVISION
Address:	3 OAK ACRES ROAD	Care of:	OAK ACRES SUBDIVISION
City:	BRUNSWICK	State:	GA
Zip:	31523	Owner:	OAK ACRES SUBDIVISION
Source code:	Ground water	Population:	38

PWS ID:	GA1270058	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	GLYNN
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	38

PWS ID:	GA1270058	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000050	System name:	OAK ACRES SUBDIVISION
System address:	OAK ACRES S/D	System address:	11 OAK ACRES
System city:	BRUNSWICK	System state:	GA
System zip:	31520		

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311322	Longitude:	0813159

State:	GA	Latitude degrees:	31
Latitude minutes:	13	Latitude seconds:	22.0000
Longitude degrees:	81	Longitude minutes:	31
Longitude seconds:	59.0000		

L37
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255235**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H298	Type:	Well

Description:	JOHN RINNIER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900404
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-10
Feet below surface:	1.41	Feet to sea level:	Not Reported
Note:	Not Reported		

L38
North
1/2 - 1 Mile
Higher

GA WELLS **0000005350**

County code:	127	Well num:	33H298
Remarks:	JOHN RINNIER	Lat:	311344
Lon:	0813247	Latlon datum:	NAD27
Alt:	11	Alt datum:	NGVD29
Depth:	160	Depth to casing:	121
Casing dia:	4.5	Casing matl:	P
Depth to top:	121	Depth to bot:	160
Opening type:	X	Constr date:	19900404
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005350

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for GLYNN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for GLYNN COUNTY, GA

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.260 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

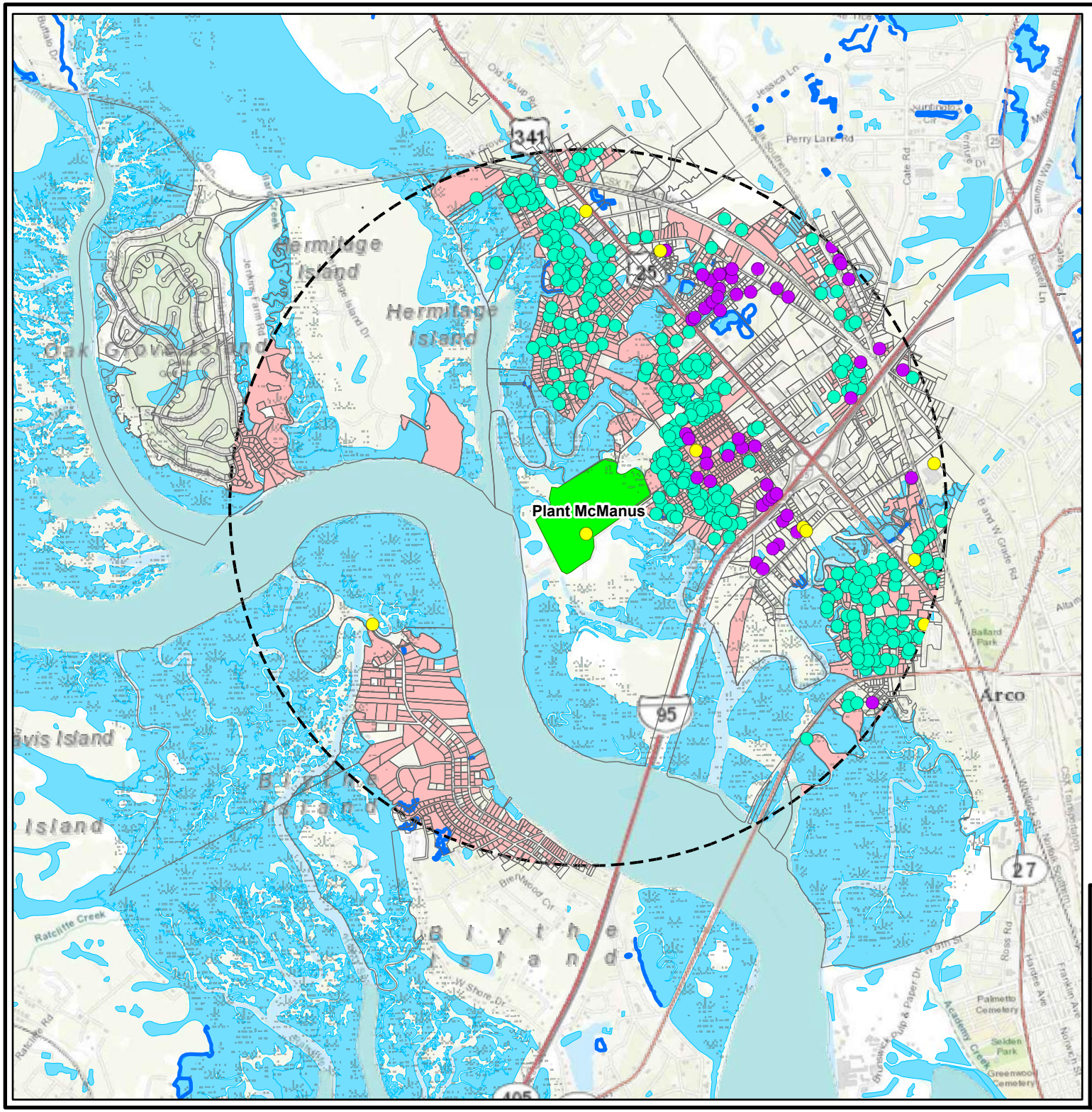
Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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LEGEND

- Water Wells
- Inactive Private Irrigation/Drinking Well
- Private Drinking Well
- 2-Mile Radius
- Ash Pond 1
- Hydro Lines
- Lakes and Ponds
- Parcels
- Parcels Identified as Likely Having a Well

NOTE:
1) WELLS IDENTIFIED BY PARCEL LOCATION BUT THAT DO NOT HAVE AN EXACT LOCATION AVAILABLE ARE PRESENTED AS INSIDE THE 2-MILE RADIUS IF THE PARCEL STRADDLES THE INVESTIGATION BOUNDARY.

N W E S

0 2,000 4,000 8,000

GRAPHIC SCALE IN FEET

Georgia Power

PLANT MCMANUS ASH POND 1
BRUNSWICK, GA

WATER WELL SURVEY

ARCADIS

FIGURE
1

PATH: T:_ENV\GA_PowerPlant_McManus_Brunswick_GA\Water_Well_Survey_Pro\Water_Wells\Water_Wells.aprx\ Fig_1_Water_Well_Survey Last Saved by : tdrum 1/5/2024