

2024 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GEORGIA POWER COMPANY – PLANT
MITCHELL
ASH PONDS A, 1, AND 2
DOUGHERTY AND MITCHELL
COUNTIES, GEORGIA



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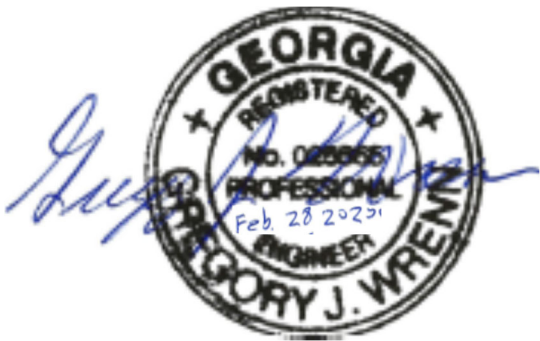
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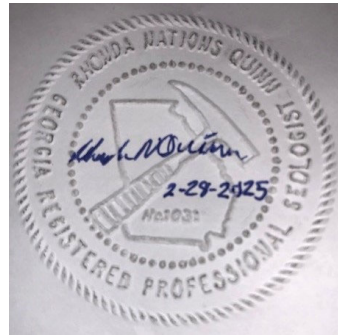


CERTIFICATION STATEMENT

This 2024 *Semi-Annual Groundwater Monitoring and Corrective Action Report*, Plant Mitchell (Ash Ponds A, 1, and 2) has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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SUMMARY

This summary of the 2024 *Semi-Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program from July through December 2024 at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1 and 2 (the Site). This summary was prepared by WSP USA, Inc. (formerly Wood Environment & Infrastructure Solutions, Inc.) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference Part A, Section 6¹ of the United States Environmental Protection Agency (US EPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Georgia Power's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell Site is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary. There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit was approved on June 28, 2022 (Permit No. 047-024D(CCR)).

The groundwater monitoring program for the ash ponds is managed in accordance with the GA EPD CCR Rules. A comprehensive well network monitors the groundwater conditions upgradient and downgradient of the ash ponds, in accordance with GA EPD rule requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019.



Plant Mitchell Ash Ponds A, 1, and 2

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



A semi-annual groundwater monitoring event was conducted in August 2024 and the Site remains in assessment monitoring. The samples collected during this routine semi-annual monitoring event were analyzed for the full suite of Appendix III² and the full suite of Appendix IV³ constituents. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for August 2024 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III constituents in wells provided in the table below. There are no confidence intervals of the individual well/constituent pairs above a Groundwater Protection Standard (GWPS). Therefore, no statistically significant levels (SSLs) were identified for the August 2024 sampling event.

Appendix III Constituents	August 2024
Boron	PZ-7D, PZ-15, PZ-16, PZ-17 PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57
Calcium	PZ-18, PZ-19, PZ-23A
Chloride	PZ-15, PZ-16
Fluoride	None
pH	PZ-18, PZ-19, PZ-23A
Sulfate	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57
TDS	PZ-7D, PZ-15, PZ-16, PZ-18, PZ-19, PZ-23A, PZ-33, PZ-57

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for August 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GA EPD semi-annually.

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

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



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LIST OF ACRONYMS

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
cm/sec	Centimeters per Second
DO	Dissolved Oxygen
ft/day	Feet per Day
GA EPD	Georgia Environmental Protection Division
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	Milligrams per Liter
NAD	North America Datum of 1983
NAVD	North America Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTUS	Nephelometric Turbidity Units
OCGA	Official Code of Georgia Annotated
ORP	Oxidation-Reduction Potential
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
RL	Reporting Limit (Laboratory)
SCS	Southern Company Services
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
su	Standard Unit (Unit for pH Values)
US EPA	United States Environmental Protection Agency

1 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this *2024 Semi-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 Mitchell Ash Ponds A, 1, and 2. To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR Rules are cited within this report instead of the GA EPD Rules.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95. This semi-annual report documents the activities completed from July through December 2024 in accordance with GA EPD Rule 391-3-4-.10(6) and includes the semi-annual assessment monitoring event conducted in August 2024.

1.1 SITE DESCRIPTION AND BACKGROUND

Georgia Power's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell site (the Site) is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary (**Figure 1: Site Location Map**). As depicted in **Figure 2: Monitoring Network Well Location Map**, the former coal-fired electric generating facility was located to the north of Ash Ponds A, 1, and 2. The Site is partially bounded by the Flint River on the west, the Georgia and Florida Railway on the east, pecan orchards to the south. The wooded land immediately north of the former plant buildings is owned by the Georgia Power Company.

There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. The removed CCR material is being transported by rail and/or by truck for disposal at an approved landfill or beneficially reused.

Plant Mitchell Ash Pond A was closed in 1962, Ash Pond 1 closed in 1980, and Ash Pond 2 ceased accepting CCR prior to October 19, 2015. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit was issued by GA EPD on June 28, 2022 (Permit No. 047-024D(CCR)).

Groundwater monitoring has been initiated in order to meet GA EPD CCR requirements. The CCR background study was initiated in August 2016 and was completed in October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019. During this semi-annual reporting period, one semi-

annual assessment monitoring event was conducted in August 2024. The Site remains in assessment monitoring.

1.2 REGIONAL GEOLOGY AND HYDROGEOLOGIC SETTING

The geology and hydrogeology of the Plant Mitchell Ash Ponds A, 1, and 2 are summarized below. The Plant Mitchell Site is located in the Dougherty Plain physiographic district within the Gulf Coastal Plain Physiographic Province (Watson, 1981; Clark and Zisa, 1976). The Dougherty Plain is characterized as relatively flat to gently rolling lowland karst terrain consisting of solutional features including caves, ephemeral streams, springs, and solution features which manifest surficially as shallow depressions.

The surface and near surface soils in the region consist of approximately 0 to 70 feet of unconsolidated sediment collectively referred to as residuum or overburden. This overburden is typically composed of discontinuous layers of sand and clay derived from the in-place weathering of the underlying Ocala Limestone. The overburden clay content ranges from 10 to 70 percent, with clay content typically being greater than 25 percent (Watson, 1981) making the overburden material less permeable than the underlying carbonate bedrock.

The Ocala Limestone in the region is described as a light-colored fossiliferous friable to well-indurated limestone (Gordon and Gonthier, 2017). Regionally, the Ocala Limestone is between 125 and 275 feet thick with increasing thickness to the southeast. The Ocala Limestone is part of the Floridan aquifer, which is hydraulically separated from the underlying Claiborne aquifer by the Lisbon Confining Unit (Gordon and Gonthier, 2017).

1.2.1 SITE GEOLOGY

Based on the borings drilled to establish the detection monitoring network, the lithologies underlying the ash pond area from the ground surface to depth are overburden (residuum) and carbonate bedrock. The overburden (residuum) at the Site consists of an interlayered sequence of predominantly fine-grained unconsolidated material including reddish brown to gray silty and clayey sands overlying sandy clay and clay. The overburden material is composed of the residual product of weathering of the underlying Ocala Limestone in the form of non-calcareous clay interlayered with quartz sand alluvium deposits (Hicks et al, 1981). A discontinuous zone of low permeability fine-grained sediments overlying the Ocala Limestone may serve as a barrier that restricts vertical movement of groundwater from the overburden to the limestone beneath the ash pond area, as indicated by many of the boring logs from multiple subsurface investigations at the Site. The *Hydrogeologic Assessment Report* (Wood, 2022a) presents laboratory analysis of undisturbed samples collected from fine-grained sediment directly overlying the limestone indicate this material can exhibit a permeability on the order of 10^{-4} to 10^{-8} centimeters per second (cm/sec) or 10^{-1} to 10^{-5} feet per day (ft/day). These values are generally consistent with the published range of literature values for overburden materials in the Dougherty Plain area. Hayes, et al. (1983) estimated horizontal hydraulic conductivity ranging from 0.0004 feet/day to 30 feet/day with a median value of 0.002 feet/day for samples gathered in the Dougherty Plain. A sample collected to the north

of the study area of Hayes, et al. (1983) estimated a hydraulic conductivity value of 0.002 feet/day and a vertical hydraulic conductivity value of 0.001 feet/day.

Locally, the Ocala Limestone bedrock is characterized as a pink to white, slightly silty, friable to well indurated fossiliferous limestone. The contact between overburden and bedrock at the Site is noted as an abrupt and distinct change in color, texture, and carbonate content from the overburden to bedrock. The Ocala Limestone is often described in the boring logs as a fine to coarse calcareous sand with increasing consolidation and cementation with depth. The surface of the carbonate bedrock is highly irregular due to differential weathering. In general, the bedrock surface slopes from the Site toward the Flint River in the west and southwest, and toward the unnamed creek in the east. As described in the *Hydrogeologic Assessment Report* (Wood, 2022a), in-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 3.83×10^{-4} to 2.05×10^{-3} cm/sec or 1.08 to 5.81 feet/day with an average of 1.07×10^{-3} cm/sec or 3.04 feet/day.

1.2.2 SITE HYDROGEOLOGY

Two main hydrostratigraphic units are present at the Site: overburden (residuum) and carbonate bedrock and comprise the uppermost aquifer. The bedrock and lower part of the overburden are saturated. Where there is CCR/embankment material overlying the overburden and bedrock, it is predominantly unsaturated as indicated by several piezometers screened in the CCR/overburden contact. The monitoring well network for the Ash Ponds monitors the carbonate upper bedrock because the limestone yields usable, continuous, and persistent water, unlike the overlying overburden.

General groundwater flow in the bedrock aquifer is from the northern and eastern boundaries of the Site toward Ash Ponds 1 and 2 where a more dominant westerly flow direction is present as indicated on **Figure 3: Potentiometric Surface Map – Upper Bedrock – August 12, 2024**. The westerly flow direction is consistent with previously observed flow directions. Consistent with seasonal variations, the August 12, 2024 groundwater elevations were lower than the February 26, 2024 groundwater elevations. The August 12, 2024 groundwater elevations were similar to previous events' groundwater elevations.

1.3 GROUNDWATER MONITORING SYSTEM

Ash Ponds A, 1, and 2 are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The groundwater monitoring system is described below.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer at Ash Ponds A, 1, and 2. The monitoring system is designed to monitor groundwater passing the waste boundary of the Ash Ponds A, 1, and 2 within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring points of Ash Ponds A, 1, and 2 based on groundwater flow direction. The monitoring well locations are shown in **Figure 2** and **Table 1 Summary of Detection Monitoring Well and Piezometer Construction Data** provides



construction details for the detection monitoring wells in the CCR monitoring network. The monitoring wells are supplemented with piezometers that are used for water level measurements only (**Table 1**).

2 GROUNDWATER MONITORING ACTIVITIES

As required by 257.90(e), the following describes monitoring-related activities performed from July through December 2024. The second semi-annual 2024 event was conducted August 12 to 15, 2024. The groundwater sampling was performed in August 2024 for assessment monitoring in accordance with § 257.93. Samples were collected from each of the monitoring wells listed in **Table 2: Groundwater Sampling Events**.

2.1 MONITORING WELL AND PIEZOMETER MAINTENANCE

Monitoring well-related activities conducted during this period included the following:

- Monitoring wells are inspected semi-annually to determine if 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 August 2024, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A: Well Repairs and Inspections**. The inspection and repairs were performed under the direction of a professional geologist or engineer registered in the State of Georgia.
- A few minor repairs and maintenance activities were conducted on the wells during the August 2024 event and are summarized in the well repair memo in **Appendix A**.

2.2 PIEZOMETER ABANDONMENT

Construction activities associated with the ash removal and closure of AP-1 and AP-2 necessitated the abandonment of non-permit piezometers located downgradient of the former ash ponds. Piezometer PZ-45 was installed in 2016 for environmental investigations associated with the coal combustion residuals (CCR) program but was not included in the certified CCR groundwater monitoring or water level gauging network. Located outside of the Plant Mitchell CCR permit boundary, piezometer PZ-45 was no longer needed and was identified for abandonment. Piezometer PZ-45 was scheduled for abandonment in September 2023 during a mobilization to abandon eight other piezometers (WSP 2023). At that time, PZ-45 could not be located. During the February 2024 semi-annual monitoring event when the ground-cover vegetation was dormant, PZ-45 was located. Piezometer PZ-45 was abandoned on October 15, 2024 and is documented in **Appendix B: Report of Abandonment of Piezometer PZ-45**.



2.3 ASSESSMENT MONITORING

Pursuant to § 257.94(e)(1), Georgia Power implemented assessment monitoring based on Statistically Significant Increases (SSIs) of Appendix III constituents identified in the initial detection monitoring event (March 2019). An Assessment Monitoring Program Notification was prepared for Ash Ponds A, 1, and 2 on November 13, 2019, pursuant to § 257.94(e)(3) and placed in the facility's Operating Record as required by § 257.105(h)(5).

One semi-annual assessment monitoring event was conducted during this reporting period in August 2024. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring network wells were analyzed for Appendix III constituents and the full suite of Appendix IV constituents. Data reports for the August 2024 event are included in **Appendix C: Laboratory Analytical and Field Sampling Reports – August 2024.**

3 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to complete groundwater monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

3.1 GROUNDWATER ELEVATION MEASUREMENTS AND FLOW DIRECTION

Prior to each sampling event, groundwater elevations are recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the August 2024 monitoring event are summarized in **Table 3: Summary of Groundwater Elevations**. Groundwater elevation data from the monitoring event were used to develop a potentiometric surface elevation contour map (**Figure 3: Potentiometric Surface Map - Upper Bedrock - August 12, 2024**). The August 2024 groundwater elevations were calculated using the re-surveyed top of casing elevations from the June 15, 2020 survey by McKim & Creed. Groundwater flow in the carbonate upper bedrock (**Figure 3**) is to the west-southwest. The groundwater flow pattern observed during the August 2024 monitoring event is consistent with conditions observed during previous monitoring events. Consistent with seasonal variations, the August 12, 2024 groundwater elevations were lower than the February 26, 2024 groundwater elevations. The August 12, 2024 groundwater elevations were similar to previous events' groundwater elevations.

3.2 GROUNDWATER GRADIENT AND FLOW VELOCITY

The horizontal groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using the commonly used derivative of Darcy's Law. Specifically,

Where:

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

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

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

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

n_e = Effective porosity

Although Darcy's equation is primarily applicable to diffuse flow in porous media, it is also used where flow is analogous to conditions in a homogenous aquifer. Stewart, et al. (1999) states that "water flow in the Upper Floridan (Ocala Limestone) can be classified generally as (1) diffuse, where flow is analogous to conditions in homogenous aquifer, and can be described by using basic Darcian equations; and (2) conduit, where water flows in distinct conduits and surrounding rock has comparatively low porosity and low permeability." Based on the lack of

karst features such as cavities in boring logs, the narrow range and relatively low values of hydraulic conductivity, and relatively uniform potentiometric surface for the bedrock aquifer at the Site, the application of Darcy's equation produces approximate linear groundwater flow velocities for the shallow bulk carbonate bedrock aquifer.

Groundwater flow velocities were calculated using an average hydraulic conductivity value of 3.04 feet/day, and an effective porosity of 20 percent (Hayes, et al., 1983). **Table 4: Groundwater Flow Velocity Calculations** summarizes the groundwater flow velocities. Results for groundwater flow velocities in August 2024 ranged from 0.02 to 0.04 feet/day (9 to 14 feet/year). These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, therefore, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected for the August 2024 monitoring event in accordance with § 257.93(a). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The monitoring wells were purged and sampled using low-flow sampling procedures. Sampling equipment and pump intakes were placed at the midpoint of the well screen. Care was taken to maintain a water level above the top of screen and not draw the water level down below the pump during purging. Water level stabilization was achieved when three consecutive water level measurements vary by 0.3 foot or less at a pumping rate of no less than 100 milliliters per minute. An AquaTroll (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) and a Hach 2100Q (or similar) portable turbidity meter was used to measure turbidity during well purging to verify stabilization prior to sampling. Groundwater samples were collected when the following stabilization criteria were met:

- pH $\pm$ 0.1 Standard Units (s.u.);
- Specific conductance $\pm$ 5 percent;
- DO $\pm$ 10 percent or $\pm$ 0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO >0.5 mg/L (if DO <0.5 mg/L no stabilization criteria apply); and,
- Turbidity measurements less than 5 Nephelometric Turbidity Units (NTUs), or between 5 and 10 NTUs after 3 hours of purging.

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to the analytical laboratory following chain-of-custody protocol. The field sampling and equipment calibration forms generated during this monitoring event are provided in **Appendix C**.

3.4 LABORATORY ANALYSES

The full suites of Appendix III and IV constituents were analyzed during the August 2024 semi-annual event. Analytical methods used for groundwater sample analyses are listed on the analytical laboratory reports included in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners, Georgia, Asheville, North Carolina, and Greensburg, Pennsylvania. The Pace laboratories are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all constituents analyzed. In addition, Pace laboratories are certified to perform analysis by the State of Georgia. Groundwater data laboratory reports and chain of custody records for this monitoring event are presented in **Appendix C**.

3.5 GROUNDWATER ANALYTICAL RESULTS

Table 5: Groundwater Analytical Data Summary – August 2024, summarizes the analytical data for the Appendix III and IV constituents for the semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix C**. Time series data for the Appendix III and IV constituents are provided in **Appendix D: Statistical Analyses**.

3.6 QUALITY ASSURANCE & QUALITY CONTROL

During each sampling event, quality assurance/quality control (QA/QC) samples are collected. Equipment blanks (where non-dedicated sampling equipment is used) are collected at a rate of one QA/QC sample per 10 groundwater samples. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling event and were collected at a rate of one QA/QC sample per 20 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 20 groundwater samples. Quality assurance and quality control of the groundwater data was assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy, and analytical method requirements. The constituent concentrations were generally within the historical range of concentrations. The data quality evaluations are included in **Appendix C**.

The analytical results provided in **Table 5** provide concentrations from the most recent sampling event as reported by the laboratory. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a "U" flag indicate the constituent was not detected above the analytical minimum detectable concentration. The data are considered usable for meeting project objectives and the results are considered valid.

4 STATISTICAL ANALYSIS

The Site is currently in assessment monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the groundwater monitoring network pursuant to § 257.93(f) and following the Professional Engineer-certified statistical analysis plans. The statistical analysis plan used at the Site was developed in April 2019 by Groundwater Stats Consulting in accordance with § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III constituent. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

Pursuant to § 257.95(d)(2), Georgia Power established groundwater protection standards (GWPS) for the Appendix IV monitoring constituents and conducted statistical analysis of the Appendix IV groundwater monitoring data obtained during the August 2024 semi-annual assessment monitoring event to evaluate if concentrations statistically exceeded the established GWPS. The following subsections provide an overview of the statistical methods used to evaluate Appendix III and IV constituents and statistical analyses results.

4.1 STATISTICAL METHOD

Sanitas groundwater statistical software was used to perform the statistical analyses at the Site. Sanitas is a commercially available decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance (US EPA, 2009) document. The Sanitas groundwater statistical software was used to perform the statistical analyses of groundwater quality semi-annual data obtained in August 2024. The interwell statistical method was used for the analysis of the Appendix III constituents. Confidence intervals were calculated for each of the detected Appendix IV constituents in each downgradient well. **Table 6: Statistical Method Summary** provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the semi-annual monitoring event conducted in August 2024 and will be used for routine monitoring in the future. Specific methodology information is described in the following paragraphs.

4.1.1 APPENDIX III STATISTICAL METHOD

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification re-sample plan for each of the Appendix III constituents. The interwell prediction limits were used to evaluate the full suite of Appendix III constituents. When using the interwell method, upgradient well data are pooled to establish a background statistical limit (PL) for each constituent. Pooled concentrations from Site upgradient wells (PZ-1D, PZ-2D, PZ-31, PZ-32) were used to establish the prediction limit for each individual Appendix III constituent. Appendix III constituent concentrations from

the semi-annual August 2024 monitoring event were compared to the interwell prediction limits to evaluate whether downgradient well concentrations exceed background statistical limits. When a constituent concentration exceeds the PL, a statistically significant increase (SSI) exceedance is identified.

If data from a sampling event initially exceeds the PL, an optional resampling strategy can be used to verify the result as described in Section 4.1 and **Table 6**. A confirmed exceedance is only noted when the re-sample confirms the initial exceedance by also exceeding the prediction limit or if re-sampling is not performed. If the re-sample does not exceed the PL, then there is no SSI.

4.1.2 APPENDIX IV STATISTICAL METHOD

The assessment monitoring program statistics for Appendix IV constituents at Plant Mitchell were conducted in two parts. The first part was the calculation of tolerance limits for site-specific background limits for Appendix IV constituents. The second part was the calculation of confidence intervals for individual downgradient well/constituent pairs.

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for barium and radium. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the GWPS under 40 CFR § 257.95(h).

Following the above rule requirements, GWPSs were established for statistical comparison of Appendix IV constituents for the August 2024 sampling event. **Table 7: Summary of Groundwater Protection Standards** summarizes the GWPSs established for each event for the Appendix IV constituents. The background levels for each event are summarized in **Appendix D**.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well for each event. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the GA EPD Rules 391-3-4-.10(6)(a). 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, an SSL exceedance is identified.

4.2 STATISTICAL ANALYSES RESULTS – APPENDIX III

The statistical analysis and comparison to prediction limits are included as **Appendix D**. Based on review of the full Appendix III statistical analysis discussion presented in **Appendix D**, groundwater conditions have not returned to background concentrations and assessment monitoring should continue to be conducted.



4.3 STATISTICAL ANALYSES RESULTS – APPENDIX IV

Appendix D shows the individual well/constituent pairs with their respective confidence intervals in comparison to the respective constituent GWPS. There are no confidence intervals of the individual well/constituent pairs above a GWPS, established according to GA EPD Rules 391-3-4-.10(6)(a). Therefore, no SSLs were identified for the August 2024 sampling event.



5 MONITORING PROGRAM STATUS

The Plant Mitchell Ash Ponds A, 1, and 2 CCR multi-unit is in assessment monitoring due to the detection of SSIs of Appendix III constituents initially in March 2019. Similar SSIs of Appendix III constituents were detected in the August 2024 semi-annual event. No SSLs were identified for the Appendix IV constituents during the August 2024 event. Pursuant to § 257.95, Georgia Power will continue assessment monitoring at Plant Mitchell Ash Ponds A, 1, and 2.



6 CONCLUSIONS & FUTURE ACTIONS

This *2024 Semi-Annual Groundwater Monitoring & Corrective Action Report* for Georgia Power's Plant Mitchell Ash Ponds A, 1, and 2 was prepared to fulfill the requirements of GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for Plant Mitchell Ash Ponds A, 1, and 2 identified SSIs of Appendix III groundwater monitoring constituents. Georgia Power has initiated assessment monitoring pursuant to the requirements of § 257.95. The next semi-annual assessment sampling event is planned for March 2025. The next semi-annual assessment monitoring event will include sampling and analysis of the full suites of Appendix III and Appendix IV constituents.

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TABLES

TABLE 1
SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Well Name	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾	Top of Casing Elevation (feet NAVD88) ⁽²⁾	Top of Screen Elevation (feet NAVD88) ⁽³⁾	Bottom of Screen Elevation (feet NAVD88) ⁽³⁾	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Hydraulic Location
DETECTION MONITORING WELLS										
PZ-1D	06/11/2014	526353.9	2307362.8	193.44	196.44	125.8	115.8	78.0	Bedrock (Limestone)	Upgradient
PZ-2D	06/10/2014	526067.3	2308155.4	175.64	178.51	108.0	98.0	78.0	Bedrock (Limestone)	Upgradient
PZ-7D	06/03/2014	521425.1	2305995.3	170.28	173.08	123.7	113.7	57.0	Bedrock (Limestone)	Downgradient
PZ-14	07/25/2016	521473.1	2306804.8	180.85	183.46	140.9	130.9	50.0	Bedrock (Limestone)	Downgradient
PZ-15	07/23/2016	521600.2	2305357.3	167.38	170.37	97.4	87.4	80.0	Bedrock (Limestone)	Downgradient
PZ-16	07/25/2016	522125.0	2305359.9	171.21	173.92	131.2	121.2	50.0	Bedrock (Limestone)	Downgradient
PZ-17	07/22/2016	522587.9	2305886.7	170.12	172.91	120.1	110.1	60.0	Bedrock (Limestone)	Downgradient
PZ-18	07/23/2016	523145.7	2306142.3	167.34	170.11	117.3	107.3	60.0	Bedrock (Limestone)	Downgradient
PZ-19	07/13/2016	523582.1	2306153.6	169.40	172.05	120.4	110.4	60.0	Bedrock (Limestone)	Downgradient
PZ-23A	03/10/2020	523831.5	2307743.4	189.06	191.85	134.6	124.6	64.5	Bedrock (Limestone)	Downgradient
PZ-25	07/20/2016	524492.6	2306152.0	168.24	171.14	118.2	108.2	60.0	Bedrock (Limestone)	Downgradient
PZ-31	10/13/2016	526996.3	2306857.6	180.32	182.96	133.3	123.3	57.0	Bedrock (Limestone)	Upgradient
PZ-32	10/13/2016	526078.7	2307723.7	178.19	180.75	126.2	116.2	62.0	Bedrock (Limestone)	Upgradient
PZ-33	10/02/2016	522212.6	2307233.9	187.08	189.61	126.7	116.7	70.4	Bedrock (Limestone)	Downgradient
PZ-57 ⁽⁵⁾	11/04/2021	522849.9	2306107.5	166.54	169.35	107.0	97.0	70.0	Bedrock (Limestone)	Downgradient



TABLE 1
SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Well Name	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾	Top of Casing Elevation (feet NAVD88) ⁽²⁾	Top of Screen Elevation (feet NAVD88) ⁽³⁾	Bottom of Screen Elevation (feet NAVD88) ⁽³⁾	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Hydraulic Location
PIEZOMETERS										
MW-101	02/14/1995	524507.6	2306160.1	168.14	170.93	154.8	145.3	23.4	Overburden (Sand and Clay)	Downgradient
MW-102	02/22/1995	524508.2	2306153.6	168.10	170.93	132.3	122.8	45.9	Bedrock (Limestone)	Downgradient
MW-111	02/23/1995	521618.2	2305308.8	165.28	168.06	128.3	118.8	47.0	Bedrock (Limestone)	Downgradient
MW-113	02/21/1995	522357.4	2305578.4	171.88	174.61	129.6	120.1	52.4	Bedrock (Limestone)	Downgradient
MW-116	02/23/1995	523649.9	2306082.5	168.93	171.69	100.9	94.5	75.0	Bedrock (Limestone)	Downgradient
MW-120	02/24/1995	525216.0	2307100.9	191.03	193.79	153.0	143.5	48.3	Overburden (Clay)/Bedrock (Limestone)	Downgradient
PZ-01R ⁽⁴⁾	02/10/2016	524398.0	2306492.9	188.20	191.87	132.2	122.2	66.7	Overburden (Clay)/Bedrock (Limestone)	Downgradient
PZ-1S	06/11/2014	526357.1	2307356.7	193.43	196.52	145.8	135.8	58.0	Overburden (Sandy Clay-Clay)	Upgradient
PZ-2S	06/10/2014	526066.7	2308163.4	175.63	178.61	131.6	121.6	54.4	Overburden (Sandy Clay)	Upgradient
PZ-3D	05/28/2014	525373.2	2307918.1	188.08	190.98	110.5	100.5	88.0	Bedrock (Limestone)	Upgradient
PZ-3S	05/28/2014	525365.6	2307918.8	188.14	191.12	138.5	128.5	60.0	Overburden (Sand-Clayey Sand)	Upgradient
PZ-4D	05/29/2014	524198.2	2308009.5	188.25	191.10	142.7	132.7	56.0	Bedrock (Limestone)	Downgradient
PZ-4S	05/29/2014	524192.1	2308005.0	188.42	191.20	163.8	153.8	35.0	Overburden (Clayey Sand-Sandy Clay)	Downgradient
PZ-6S	06/13/2014	522254.0	2307207.5	186.52	189.47	148.9	138.9	48.0	Overburden (Clay)	Downgradient
PZ-7S	06/03/2014	521424.4	2306002.8	170.10	173.10	146.5	136.5	34.0	Overburden (Clay)	Downgradient
PZ-8D	06/05/2014	521442.1	2305207.9	167.24	170.35	100.6	90.6	77.0	Bedrock (Limestone)	Downgradient
PZ-8S	06/05/2014	521440.2	2305217.4	167.67	170.78	142.8	132.8	35.2	Overburden (Sand)	Downgradient
PZ-9D	06/04/2014	521770.9	2305127.5	163.18	166.16	126.6	116.6	47.0	Bedrock (Limestone)	Downgradient
PZ-9S	06/05/2014	521763.7	2305125.7	163.06	166.02	145.5	135.5	28.0	Overburden (Sand)/Bedrock (Limestone)	Downgradient
PZ-10S	06/03/2014	522465.8	2305401.6	172.64	175.63	137.0	127.0	46.0	Bedrock (Limestone)	Downgradient
PZ-12S	06/04/2014	523794.9	2305676.8	170.93	173.92	133.3	123.3	48.0	Bedrock (Limestone)	Downgradient
PZ-13S	06/06/2014	524467.0	2305810.0	170.23	173.22	132.6	122.6	48.0	Overburden (Sandy Clay)	Downgradient
PZ-20	07/14/2016	524025.0	2306152.6	170.62	173.44	121.1	111.1	60.0	Bedrock (Limestone)	Downgradient
PZ-21	07/29/2016	524639.5	2306932.0	177.08	179.84	117.1	107.1	70.0	Bedrock (Limestone)	Downgradient
PZ-22	07/28/2016	524622.4	2307749.0	184.76	187.69	134.8	124.8	60.0	Bedrock (Limestone)	Downgradient
PZ-24A	03/06/2020	523151.8	2307445.9	192.25	194.97	142.3	132.3	60.0	Bedrock (Limestone)	Downgradient
PZ-27	10/04/2016	522440.4	2305235.1	161.88	164.58	123.6	113.6	48.3	Bedrock (Limestone)	Downgradient
PZ-28	10/13/2016	522953.9	2305347.3	163.49	165.96	126.5	116.5	47.0	Bedrock (Limestone)	Downgradient
PZ-29	10/04/2016	523857.8	2305593.0	170.42	173.18	123.9	113.9	56.5	Bedrock (Limestone)	Downgradient

Notes:

(1) Coordinates are North American Datum of 1983 (NAD 83) (2011) Georgia State Plane, West Zone. Monitoring wells were re-surveyed by McKim & Creed, Inc. on June 15, 2020.

(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988. Monitoring wells were re-surveyed by McKim & Creed, Inc. on June 15, 2020.

(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey.

(4) Coordinates and elevations for piezometer PZ-01R are from E&CS Civil Field Services March 2, 2016.

PZ-01R was not re-surveyed in June 2020 as the piezometer was not accessible due to construction activities.

(5) Monitoring well PZ-57 was surveyed on December 10, 2021 by McKim & Creed, Inc.

TABLE 2
GROUNDWATER SAMPLING EVENTS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Well ID	Hydraulic Location	August 13 2024 - August 15 2024	Status of Ash Ponds Detection Monitoring Wells
Purpose of Sampling Event		Assessment Event	
Ash Ponds Detection Monitoring Well Network			
PZ-1D	Upgradient	X	Assessment Monitoring
PZ-2D	Upgradient	X	Assessment Monitoring
PZ-7D	Downgradient	X	Assessment Monitoring
PZ-14	Downgradient	X	Assessment Monitoring
PZ-15	Downgradient	X	Assessment Monitoring
PZ-16	Downgradient	X	Assessment Monitoring
PZ-17	Downgradient	X	Assessment Monitoring
PZ-18	Downgradient	X	Assessment Monitoring
PZ-19	Downgradient	X	Assessment Monitoring
PZ-23A	Downgradient	X	Assessment Monitoring
PZ-25	Downgradient	X	Assessment Monitoring
PZ-31	Upgradient	X	Assessment Monitoring
PZ-32	Upgradient	X	Assessment Monitoring
PZ-33	Downgradient	X	Assessment Monitoring
PZ-57	Downgradient	X	Assessment Monitoring

Notes:

1. X - indicates well sampled during event

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Well ID	Lithology Screened	Top of Casing Elevation (feet NAVD88) ⁽¹⁾	Depth to Water (feet below TOC) ⁽²⁾	Groundwater Elevation (feet NAVD88) ⁽³⁾
Measurement Date:			August 12, 2024	
MW-101	Overburden (Sand and Clay)	170.93	17.95	152.98
MW-102	Bedrock (Limestone)	170.93	31.68	139.25
MW-111	Bedrock (Limestone)	168.06	30.60	137.46
MW-113	Bedrock (Limestone)	174.61	33.68	140.93
MW-116	Bedrock (Limestone)	171.69	32.72	138.97
MW-120	Overburden (Clay)/Bedrock (Limestone)	193.79	DRY	DRY
PZ-1D	Bedrock (Limestone)	196.44	51.72	144.72
PZ-01R	Overburden (Clay)/Bedrock (Limestone)	191.87	52.42	139.45
PZ-1S	Overburden (Sandy Clay-Clay)	196.52	34.93	161.59
PZ-2D	Bedrock (Limestone)	178.51	35.27	143.24
PZ-2S	Overburden (Sandy Clay)	178.61	35.28	143.33
PZ-3D	Bedrock (Limestone)	190.98	48.08	142.90
PZ-3S	Overburden (Sand-Clayey Sand)	191.12	44.00	147.12
PZ-4D	Bedrock (Limestone)	191.1	49.14	141.96
PZ-4S	Overburden (Clayey Sand-Sandy Clay)	191.2	26.95	164.25
PZ-6S	Overburden (Clay)	189.47	18.38	171.09
PZ-7D	Bedrock (Limestone)	173.08	34.21	138.87
PZ-7S	Overburden (Clay)	173.1	34.15	138.95
PZ-8D	Bedrock (Limestone)	170.35	32.83	137.52
PZ-8S	Overburden (Sand)	170.78	27.48	143.30
PZ-9D	Bedrock (Limestone)	166.16	28.30	137.86
PZ-9S	Overburden (Sand)/Bedrock (Limestone)	166.02	27.79	138.23
PZ-10S	Bedrock (Limestone)	175.63	35.95	139.68
PZ-12S	Bedrock (Limestone)	173.92	35.67	138.25
PZ-13S	Overburden (Sandy Clay)	173.22	34.18	139.04
PZ-14	Bedrock (Limestone)	183.46	43.75	139.71
PZ-15	Bedrock (Limestone)	170.37	32.58	137.79
PZ-16	Bedrock (Limestone)	173.92	34.52	139.40
PZ-17	Bedrock (Limestone)	172.91	33.43	139.48
PZ-18	Bedrock (Limestone)	170.11	31.16	138.95
PZ-19	Bedrock (Limestone)	172.05	32.88	139.17
PZ-20	Bedrock (Limestone)	173.44	34.41	139.03
PZ-21	Bedrock (Limestone)	179.84	39.42	140.42
PZ-22	Bedrock (Limestone)	187.69	45.93	141.76
PZ-23A	Bedrock (Limestone)	191.85	50.21	141.64
PZ-24A	Bedrock (Limestone)	194.97	54.38	140.59
PZ-25	Bedrock (Limestone)	171.14	31.93	139.21
PZ-27	Bedrock (Limestone)	164.58	25.54	139.04
PZ-28	Bedrock (Limestone)	165.96	26.42	139.54
PZ-29	Bedrock (Limestone)	173.18	35.19	137.99
PZ-31	Bedrock (Limestone)	182.96	38.68	144.28
PZ-32	Bedrock (Limestone)	180.75	37.14	143.61
PZ-33	Bedrock (Limestone)	189.61	49.57	140.04
PZ-57	Bedrock (Limestone)	169.35	30.33	139.02

Notes:

- (1) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Elevations are from June 15, 2020 re-survey of the monitoring wells and piezometers and well PZ-57 survey on December 10, 2021 by McKim & Creed, Inc.
- (2) TOC - Top of Casing
- (3) Groundwater elevations for 2024 are calculated using TOC elevations from the June 15, 2020 re-survey.
- (4) Elevation for piezometer PZ-01R is from E&CS Civil Field Services March 2, 2016.
PZ-01R was not re-surveyed in June 2020 as the piezometer was not accessible due to construction activities.
- (5) Groundwater elevations of wells and piezometers screened in the bedrock were used to generate potentiometric contours on the potentiometric maps.
- (6) DRY - no measurable groundwater in well casing

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Gauging Event	Lithology Screened	Well Pairs	Groundwater Elevations in Well Pairs (feet)		Change in Elevation (Δh) (feet)	Distance Between Well 1 and Well 2 (Δl) (feet)	Hydraulic Gradient ($i = \Delta h / \Delta l$) (feet/feet)	Estimated Hydraulic Conductivity (K) for Uppermost Aquifer (feet/day) ¹	Estimated Effective Porosity ² (n_e)	Calculated Groundwater Flow Velocity (V) ⁴ (feet/day)	Calculated Groundwater Flow Velocity (V) ⁴ (feet/year)
August 2024	Bedrock (Limestone)	PZ-1D to PZ-01R	144.72	139.45	5.27	2143	0.0025	3.04	0.20	0.04	14
August 2024	Bedrock (Limestone)	PZ-23A to PZ-18	141.64	138.95	2.69	1743	0.0015	3.04	0.20	0.02	9

Notes:

1. In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 1.08 to 5.81 feet/day with an average of 3.04 feet/day.
2. Effective porosity of 20% was selected for Ocala Limestone from Hydrology and Model Evaluation of the Principal Artesian Aquifer, Dougherty Plain, Southwest Georgia: Georgia Geologic Survey Bulletin 97 (Hayes, L.R., Maslia, M.L., Meeks, W.C., 1983)
3. Δh = Change in groundwater elevation; Δl = Distance between wells in direction of flow path; $i = \Delta h / \Delta l$ Hydraulic Gradient
4. Groundwater flow velocity equation: $V = (K * i) / n_e$

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY - AUGUST 2024
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2
Dougherty and Mitchell Counties, Georgia

Sample Location		PZ-1D	PZ-2D	PZ-7D	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18
Sample Date		08/13/2024	08/13/2024	08/15/2024	08/14/2024	08/14/2024	08/14/2024	08/15/2024	08/14/2024
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	< 0.012	0.017 J	0.19	0.035 J	0.18	0.19	0.053	0.37
Calcium	mg/L	48.5	14.5	104	100	98.0	97.5	71.2	139
Chloride	mg/L	2.9	2.4	3.3	4.4	6.1	5.9	1.3	4.2
Fluoride	mg/L	< 0.050	0.083 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
pH, Field	SU	7.46	9.20	7.05	7.11	7.11	7.15	7.35	6.92
Sulfate	mg/L	2.5	3.3	39.0	17.3	78.4	38.8	18.3	94.3
TDS	mg/L	163	69.0	350	284	342	311	245	468
APPENDIX IV									
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	0.0012 J	0.0012 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/L	0.012	0.0025 J	0.0055	0.013	0.046	0.036	0.045	0.025
Beryllium	mg/L	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	0.0079	0.0026 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	< 0.0016	< 0.0016	0.0025 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0041 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	0.000 U	0.159 U	0.591 U	0.0710 U	0.747 U	0.937 U	0.846 U	0.365 U
Selenium	mg/L	< 0.00096	< 0.00096	0.0011 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	< 0.050	0.083 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. 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.
7. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data are displayed with an accompanying U.
The MDC varies depending upon the sample amount and elapsed time of the measurement.

TABLE 5
GROUNDWATER ANALYTICAL DATA SUMMARY - AUGUST 2024
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2
Dougherty and Mitchell Counties, Georgia

Sample Location		PZ-19	PZ-23A	PZ-25	PZ-31	PZ-32	PZ-33	PZ-57
Sample Date		08/14/2024	08/14/2024	08/13/2024	08/13/2024	08/13/2024	08/15/2024	08/15/2024
ANALYTE	UNITS							
APPENDIX III								
Boron	mg/L	0.35	0.16	0.18	< 0.012	0.017 J	0.35	0.18
Calcium	mg/L	118	141	88.7	93.2	67.6	99.2	98.3
Chloride	mg/L	2.5	2.8	1.6	3.2	2.5	2.9	2.0
Fluoride	mg/L	0.065 J	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.050
pH, Field	SU	6.90	6.75	7.06	7.12	7.33	7.07	7.10
Sulfate	mg/L	61.7	43.4	34.8	0.80 J	1.7	31.6	59.7
TDS	mg/L	436	436	273	263	187	341	348
APPENDIX IV								
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	0.00089 J	< 0.00084	< 0.00084	< 0.00084	0.0013 J	0.00086 J
Barium	mg/L	0.048	0.036	0.11	0.0071	0.014	0.041	0.048
Beryllium	mg/L	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.0044 J
Cobalt	mg/L	< 0.00032	< 0.00032	0.0021 J	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.012 J	< 0.0016	0.0064 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.0023 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	0.684 U	1.15 U	0.818 U	0.334 U	0.394 U	0.387 U	0.800 U
Selenium	mg/L	0.0053	0.0019 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0010 J
Thallium	mg/L	0.00045 J	< 0.00038	0.00080 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.065 J	< 0.050	0.12	< 0.050	< 0.050	< 0.050	< 0.050

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. TDS - Total Dissolved Solids
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. 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.
7. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data are displayed with an accompanying U.
The MDC varies depending upon the sample amount and elapsed time of the measurement.

TABLE 6
STATISTICAL METHOD SUMMARY
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell, Georgia

Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available.
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis of Variance.
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable. Non-parametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Management of Non-Detects	When data contain less than 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory. When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters containing 100% non-detects (US EPA Unified Guidance, 2009, Chapter 6).
	Verification Re-sample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.
	Optional	▪ Initial statistical exceedance warrants optional independent re-sampling within 90 days. ▪ If re-sample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If re-sample exceeds, well/parameter has a confirmed SSI. ▪ If no re-sample is collected, the original result is deemed verified.

TABLE 7
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Dougherty and Mitchell Counties, Georgia

Constituent	Units	US EPA MCL	Federal CCR Rule 40 CFR § 257.95 (h) ⁽¹⁾	AP- A, 1, and 2 Background August 2024	AP- A, 1, and 2 GWPS ⁽⁴⁾ August 2024
Antimony	mg/L	0.006		0.0042	0.006
Arsenic	mg/L	0.01		0.005	0.01
Barium	mg/L	2.0		0.04406	2.0
Beryllium	mg/L	0.004		0.0005	0.004
Cadmium	mg/L	0.005		0.0005	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt ⁽²⁾	mg/L		0.006	0.005	0.006
Combined Radium	pCi/L	5.0		1.598	5.0
Fluoride	mg/L	4.0		0.29	4.0
Lead ^{(2) (3)}	mg/L		0.015	0.001	0.015
Lithium ⁽²⁾	mg/L		0.04	0.03	0.04
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum ⁽²⁾	mg/L		0.1	0.01	0.1
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001	0.002

Notes:

mg/L - milligrams per liter

pCi/L - picoCuries per liter

CCR - coal combustion residuals

MCL - Maximum Contaminant Level

GWPS - Groundwater Protection Standard

US EPA - United States Environmental Protection Agency

Combined Radium data are a combination of radium isotopes 226 and 228.

(1) Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018 lists levels for cobalt, lead, lithium, and molybdenum.

(2) Constituent without an established MCL.

(3) The value listed is the established US EPA Action Level for lead in drinking water.

(4) Georgia EPD has incorporated the Federal CCR Rule for GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). As described in the updated Rules, the GWPS is:

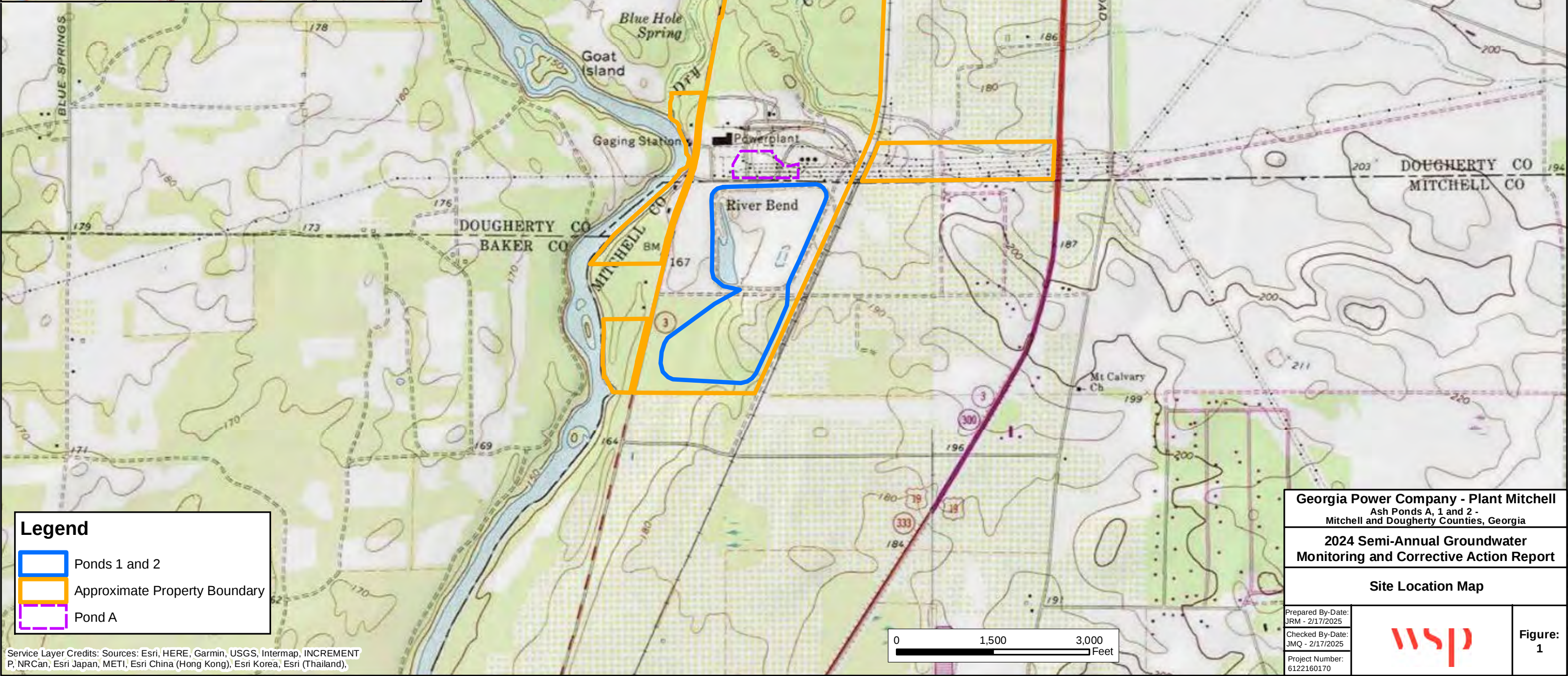
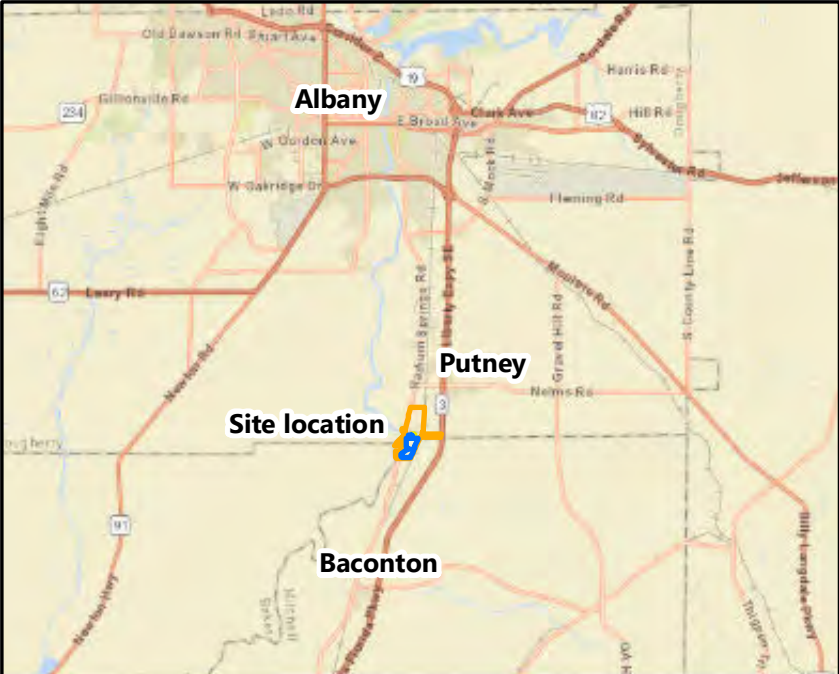
(i) the MCL

(ii) 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)

(iii) the respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule specified GWPS



FIGURES



Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2 -
Mitchell and Dougherty Counties, Georgia

2024 Semi-Annual Groundwater
Monitoring and Corrective Action Report

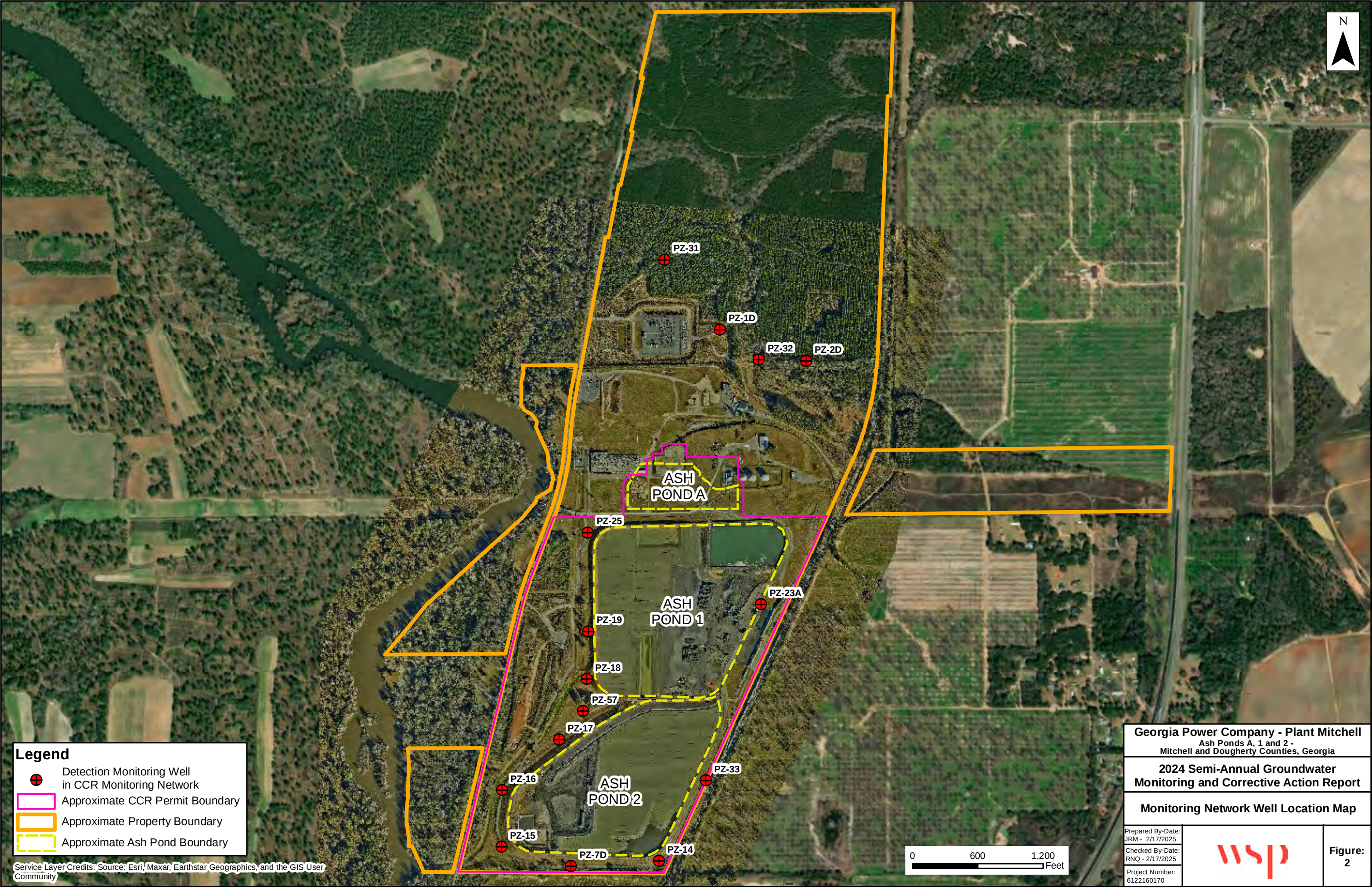
Site Location Map

Prepared By-Date:
JRM - 2/17/2025
Checked By-Date:
JMQ - 2/17/2025
Project Number:
6122160170



Figure:
1

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),



Legend

- Detection Monitoring Well in CCR Monitoring Network
- Approximate CCR Permit Boundary
- Approximate Property Boundary
- Approximate Ash Pond Boundary

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Georgia Power Company - Plant Mitchell Ash Ponds A, 1 and 2 - Mitchell and Dougherty Counties, Georgia		
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report		
Monitoring Network Well Location Map		
Prepared By-Date: JRM - 2/17/2025		Figure: 2
Checked By-Date: RNQ - 2/17/2025		
Project Number: 6122160170		

Notes:

1. Piezometers (PZ-2S and PZ-6S) screened in the Overburden were not used to generate potentiometric contours.

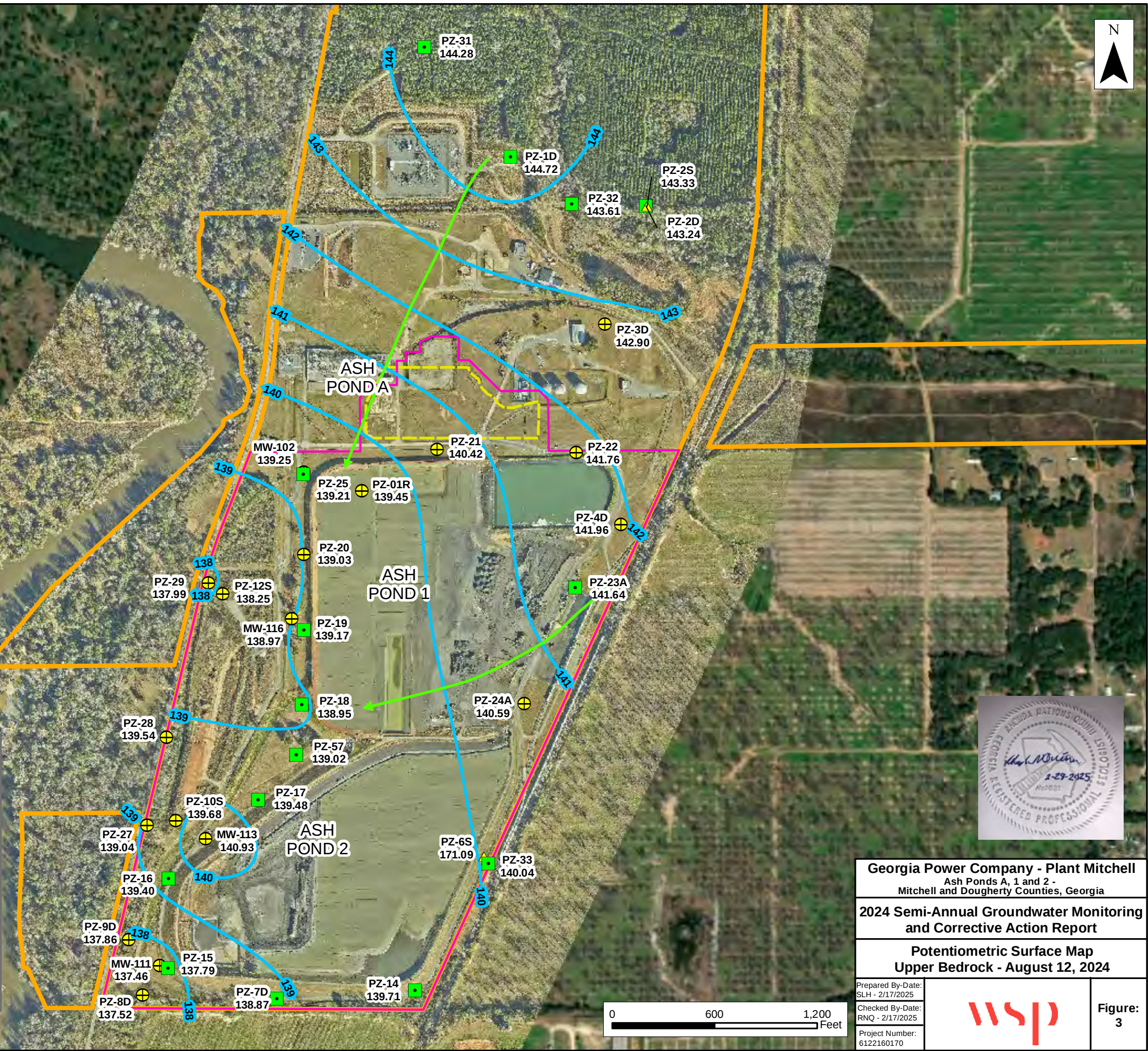
2. August 2024 groundwater elevations calculated using top of well casing elevations from the June 2020 re-surveying except for PZ-01R which was not re-surveyed in June 2020 because construction prevented access to the wells.



Legend

- Detection Monitoring Well in the CCR Monitoring Network
- Groundwater Elevation Well (Piezometer) Screened in Bedrock
- Piezometer Screened in the Overburden
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft NAVD83)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Approximate Ash Pond A Location

144.72 Groundwater Elevation (ft NAVD88)



Georgia Power Company - Plant Mitchell Ash Ponds A, 1 and 2 - Mitchell and Dougherty Counties, Georgia		
2024 Semi-Annual Groundwater Monitoring and Corrective Action Report		
Potentiometric Surface Map Upper Bedrock - August 12, 2024		
Prepared By-Date: SLH - 2/17/2025		Figure: 3
Checked By-Date: RNQ - 2/17/2025		
Project Number: 6122160170		



APPENDIX A

WELL REPAIRS AND INSPECTIONS



APPENDIX A

WELL REPAIRS



MEMORANDUM

Date: December 27, 2024

To: Kristen Jurinko – Georgia Power

CC: Ben Hodges

From: WSP USA Environment & Infrastructure, Inc.

Subject: Plant Mitchell Ash Ponds A, 1, and 2 - Well Maintenance and Repair Documentation
Georgia Power Company

WSP USA Environment & Infrastructure, Inc. (WSP) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MITCHELL during the semi-annual 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
Mitchell Ash Ponds A, 1, & 2		PZ-1D, PZ-2D	Grass and weeds need cutting around wells. Grass and tree limbs need cutting back along trail to well. Maintenance to be completed.
Mitchell Ash Ponds A, 1, & 2		PZ-13S	Erosion starting around well pad. Repair to be completed.
Mitchell Ash Ponds A, 1, & 2		MW-113 (non-permit piezometer)	Well pad is cracked. Repair to be completed.
Mitchell Ash Ponds A, 1, & 2	8/12/2024	PZ-7D	Lock not working, replaced lock.
Mitchell Ash Ponds A, 1, & 2	8/12/2024	PZ-18, PZ-57	Rusty lock not opening, applied lubrication to lock
Mitchell Ash Ponds A, 1, & 2	8/12/2024	PZ-33	Added additional pea gravel to annular space in protective cover.



APPENDIX A

WELL INSPECTIONS

AUGUST 2024

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
 Permit Number: 047-024D(CCR)

Date: 8/12/2024

Field Conditions: Hot and humid

	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
Well ID:				
MW-101	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No*	Yes
MW-113	Yes	Yes	No*	Yes
MW-116	Yes	Yes	No*	Yes
MW-120	Yes	Yes	No*	Yes
PZ-1D	Yes	Yes	No*	Yes
PZ-1S	Yes	Yes	No*	Yes
PZ-01R	Yes	Yes	No*	Yes
PZ-2D	Yes	Yes	No*	Yes
PZ-2S	Yes	Yes	No*	Yes
PZ-3D	Yes	Yes	No*	Yes
PZ-3S	Yes	Yes	No*	Yes
PZ-4D	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	No*	Yes
PZ-7D	Yes	Yes	No*	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
 Permit Number: 047-024D(CCR)

Date: 8/12/2024

Field Conditions: Hot and humid

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)
PZ-7S	Yes	Yes	No*	Yes
PZ-8D	Yes	Yes	No*	Yes
PZ-8S	Yes	Yes	No*	Yes
PZ-9D	Yes	Yes	No*	Yes
PZ-9S	Yes	Yes	No*	Yes
PZ-10S	Yes	Yes	No*	Yes
PZ-12S	Yes	Yes	No*	Yes
PZ-13S	Yes	Yes	No*	Yes
PZ-14	Yes	Yes	No*	Yes
PZ-15	Yes	Yes	No*	Yes
PZ-16	Yes	Yes	No*	Yes
PZ-17	Yes	Yes	No*	Yes
PZ-18	Yes	Yes	No*	Yes
PZ-19	Yes	Yes	No*	Yes
PZ-20	Yes	Yes	No*	Yes
PZ-21	Yes	Yes	No*	Yes
PZ-22	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	No*	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

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)
PZ-24A	Yes	Yes	No*	Yes
PZ-25	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	No*	Yes
PZ-28	Yes	Yes	No*	Yes
PZ-29	Yes	Yes	No*	Yes
PZ-31	Yes	Yes	No*	Yes
PZ-32	Yes	Yes	No*	Yes
PZ-33	Yes	Yes	No*	Yes
PZ-57	Yes	Yes	No*	Yes

Notes:

No* indicates the well is not located in a high traffic area and therefore does not require protection from traffic.

NA - criteria not applicable

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
 Permit Number: 047-024D(CCR)

Date: 8/12/2024

Field Conditions: Hot and humid

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
MW-101	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No	Yes	Yes
MW-113	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-01R	Yes	Yes	NA	NA	NA
PZ-2D	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

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
PZ-7S	Yes	Yes	Yes	Yes	Yes
PZ-8D	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

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
PZ-24A	Yes	Yes	Yes	Yes	Yes
PZ-25	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	No	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MW-101	Yes	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	Yes	Yes	Yes	Yes
MW-113	No	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-01R	NA	NA	NA	Yes	Yes	Yes
PZ-2D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	No	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-24A	Yes	Yes	Yes	Yes	Yes	Yes
PZ-25	Yes	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
 Permit Number: 047-024D(CCR)

Date: 8/12/2024

Field Conditions: Hot and humid

Corrective actions as needed, by date:	
Well ID:	
MW-101	permit piezometer
MW-102	permit piezometer
MW-111	non-permit piezometer
MW-113	Well pad is cracked, needs repair or replacement. Re-attached well ID lettering to well casing. non-permit piezometer
MW-116	permit piezometer
MW-120	well is dry permit piezometer
PZ-1D	Weeds need cutting around well permit monitoring well
PZ-1S	Weeds need cutting around well permit piezometer
PZ-01R	non-permit piezometer
PZ-2D	Grass and tree limbs need cutting back along trail to well permit monitoring well
PZ-2S	Grass and tree limbs need cutting back along trail to well permit piezometer
PZ-3D	permit piezometer
PZ-3S	approximately 4 inches sediment at bottom of well permit piezometer
PZ-4D	permit piezometer
PZ-4S	permit piezometer
PZ-6S	permit piezometer
PZ-7D	Lock not working, replaced lock permit monitoring well

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

Well ID:	Corrective actions as needed, by date:
PZ-7S	permit piezometer
PZ-8D	permit piezometer
PZ-8S	permit piezometer
PZ-9D	permit piezometer
PZ-9S	permit piezometer
PZ-10S	non-permit piezometer
PZ-12S	permit piezometer
PZ-13S	Some erosion starting around well pad from construction permit piezometer
PZ-14	permit monitoring well
PZ-15	permit monitoring well
PZ-16	permit monitoring well
PZ-17	permit monitoring well
PZ-18	Rusty lock, applied lubrication to lock permit monitoring well
PZ-19	permit monitoring well
PZ-20	permit piezometer
PZ-21	permit piezometer
PZ-22	permit piezometer
PZ-23A	permit monitoring well

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2

Date: 8/12/2024

Permit Number: 047-024D(CCR)

Field Conditions: Hot and humid

	Corrective actions as needed, by date:	
Well ID:		
PZ-24A		permit piezometer
PZ-25		permit monitoring well
PZ-27		permit piezometer
PZ-28		permit piezometer
PZ-29		permit piezometer
PZ-31	Grass needs cutting around well	permit monitoring well
PZ-32	Weeds need cutting back along trail to well	permit monitoring well
PZ-33	Added additional pea gravel to protective casing	permit monitoring well
PZ-57	Rusty lock, applied lubrication to lock	permit monitoring well



APPENDIX B

REPORT OF ABANDONMENT OF PIEZOMETER PZ-45



Report of Abandonment of Piezometer PZ-45

Georgia Power Company – Plant Mitchell

Permit No. 047-024D(CCR)

Prepared for:



Atlanta, Georgia

12/13/2024

Professional Groundwater Scientist Certification

I certify that I am a qualified ground-water scientist in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01 who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



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

Date: 12/13/2024



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

Date: 12/13/2024

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Figure 1	Location of Abandoned Piezometer PZ-45
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Appendix A	Piezometer Construction and Abandonment Records
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1.0 INTRODUCTION

This *Report of Abandonment of Piezometer PZ-45* was prepared to meet the requirements of Georgia Environmental Protection Division (EPD) Solid Waste Rules and provides details regarding the decommissioning of a piezometer located at Plant Mitchell in and around Ash Ponds 1 and 2 (AP-1 and AP-2).

The Georgia Power Company (GPC) Plant Mitchell is located on the boundary of Dougherty and Mitchell Counties off Radium Springs Road (Georgia Route 3), approximately two miles southwest of Putney and ten miles south of Albany, and east of the Flint River.

Construction activities associated with the ash removal and closure of AP-1 and AP-2 necessitated the abandonment of piezometers located downgradient of the former ash ponds. Piezometer PZ-45 was installed in 2016 for environmental investigations associated with the coal combustion residuals (CCR) program but was not included in the certified CCR groundwater monitoring or water level gauging network. Located outside of the Plant Mitchell CCR permit boundary, piezometer PZ-45 was no longer needed, and was identified for abandonment. Piezometer PZ-45 was scheduled for abandonment in September 2023 during a mobilization to abandon eight other piezometers (WSP 2023). At that time, PZ-45 could not be located. During the February 2024 semi-annual monitoring event when the ground-cover vegetation was dormant, PZ-45 was located. The flush-mounted piezometer was located about 35 to 40 feet in front of a utility pole on the left side of the driveway in front of the former house that was previously located on the property to the west of Ash Ponds 1 and 2. The construction details of the piezometer are summarized on **Table 1: Summary of Piezometer Construction**. **Figure 1: Location of Abandoned Piezometer PZ-45** shows the location of the piezometer. The well construction log for PZ-45 is included in **Appendix A: Piezometer Construction and Abandonment Records**.

2.0 PIEZOMETER ABANDONMENT

Piezometer PZ-45 (**Figure 1**) was abandoned following guidance in Georgia Water Well Standards Act (O.C.G.A. §12-5-120 through 138), Georgia Geologic Survey (GGS) Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia), and the U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) guidance (SESDGUID-101-R2, Design and Installation of Monitoring Wells), dated January 16, 2018. The piezometer was abandoned under the direction of a Georgia Professional Geologist. The depth to groundwater and total depth of the piezometer was measured prior to its abandonment and recorded on the piezometer abandonment document presented in **Appendix A: Piezometer Construction and Abandonment Records**.

The piezometer was abandoned using a combination of bentonite chips and grout. The first step was filling the screened interval with bentonite chips and hydrating the chips. Next, bentonite/Portland cement grout was pumped into the 2-inch diameter PVC well casing from the bentonite chips up to the ground surface using the tremie method. The grout was prepared in accordance with the manufacturer's instructions. The grout was allowed to settle before proceeding further with well abandonment activities. The concrete pad and flush-mounted protective cover well vault were removed from the piezometer after grouting. The top 1.5 feet of PVC well casing was cut and removed to below ground surface. After the well pad and vault were removed, the resulting void was filled with the bentonite/Portland cement grout to within three inches of the ground surface. Grouting ceased when the grout mixture daylighted at the surface as visible grout, see **Appendix A**. Based on the grout volumes recorded, there were no grout losses.

3.0 GENERAL REFERENCES

Georgia Department of Natural Resources, Environmental Protection Division, Georgia Geological Survey, 1988, Grouting and Plugging of Domestic Water Wells in Georgia, Circular 13.

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

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

WSP, 2023. *Report of Abandonment of Select Piezometers*, Georgia Power Company – Plant Mitchell, Ash Ponds a, 1, and 2, Putney, Georgia, November 10, 2023.

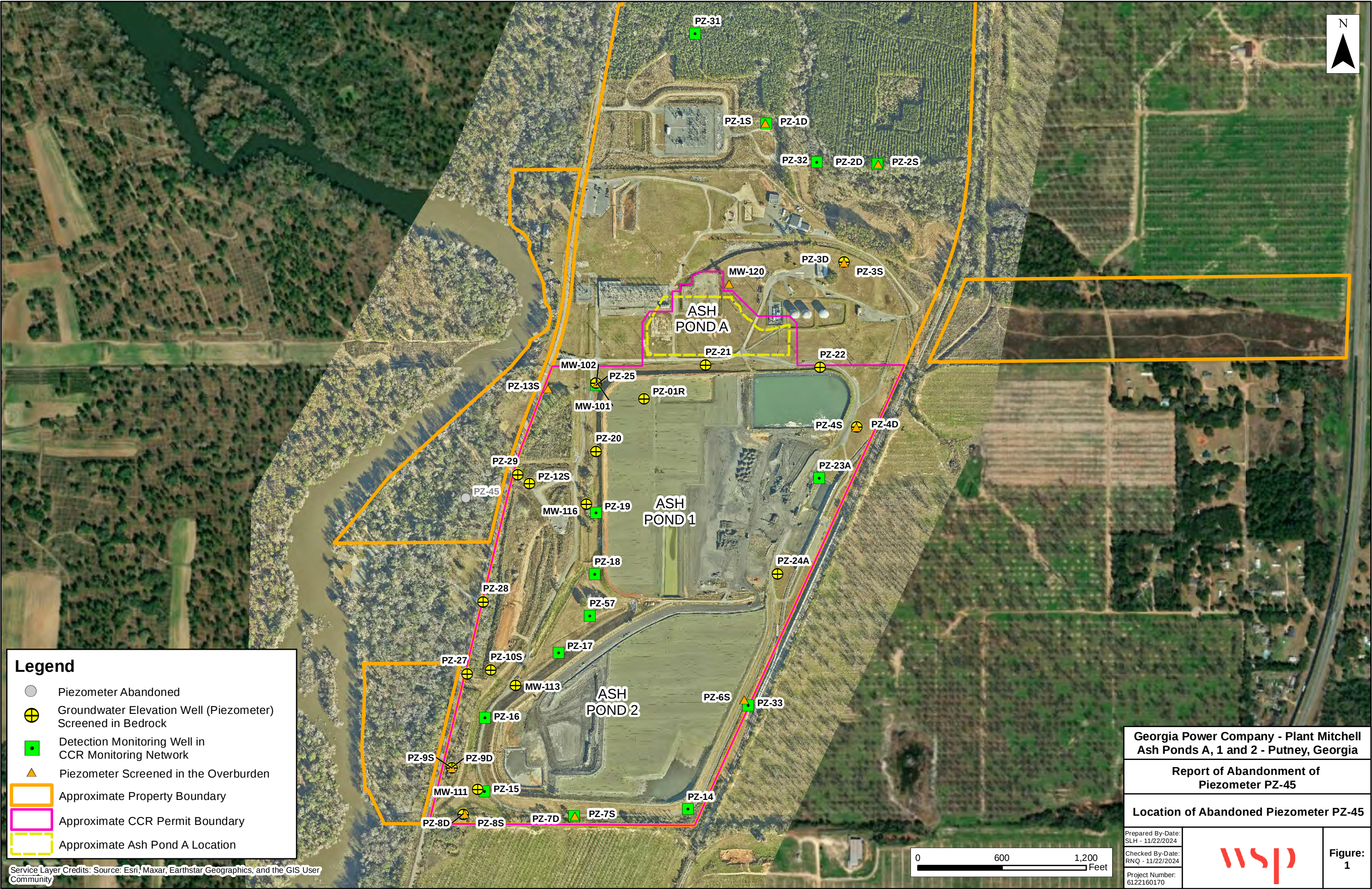
TABLE

TABLE 1
SUMMARY OF PIEZOMETER CONSTRUCTION
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2
Putney, Georgia

Well	Installation Date	Northing ⁽¹⁾ (feet NAD 83)	Easting ⁽¹⁾ (feet NAD 83)	Top of Casing Elevation (feet NAVD88) ⁽²⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾	Screen Length (feet)	Total Well Depth on Construction Log (feet below land surface)	Hydraulic Location and Purpose	Date Abandoned Completed
PZ-45	11/14/2016	523691.3	2305224.5	185.71	182.89	10.0	49.0	Western Parcel - Downgradient	10/15/2024

Notes:
(1) Northing and Easting coordinates are in feet (ft) referenced to the North American Datum of 1983 (NAD 83) (2011) Georgia West Zone.
(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

FIGURE



APPENDIX A

PIEZOMETER CONSTRUCTION AND ABANDONMENT RECORDS



LOG OF TEST BORING

BORING PZ-45

PAGE 1 OF 2

6122160170.01

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell

LOCATION Albany, Georgia

DATE STARTED 11/14/2016 COMPLETED 11/14/2016 SURF. ELEV. Not Surveyed COORDINATES:

CONTRACTOR Geo-lab Drilling EQUIPMENT Geop. 6610DT METHOD Hollow Stem Auger

DRILLED BY D. Strickland LOGGED BY F. Mayila* CHECKED BY ANGLE BEARING

BORING DEPTH 47.5 ft bgs GROUND WATER DEPTH: DURING 27 ft bgs COMP. 29.5 ft bgs DELAYED 0.3 days

NOTES *Samples logged by geologist employed by Amec Foster Wheeler

SAMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 12/12/16 12:47 - C:\USERS\MACKENZIE.FIOCA\DESKTOP\PIANT MITCHELL\PIANT MITCHELL - SOUTHERN COMPANY.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	HCL REACTION Weak Moderate Strong	GROUNDWATER OBSERVATIONS	WELL DATA
					Completion: Protective casing set in concrete pad
					(DEPTH)
		- silty SAND (SM), dark gray (7.5 YR 3/1) to reddish yellow (7.5 YR 7/8), loose,			Annular Fill: Cement-Bentonite Grout
5		- sandy CLAY (CL), strong brown (7.5 YR 5/6), 6" sand layer			
10		- weathered LIMESTONE, pinkish white (7.5 YR 8/2), hard			
15		- sandy CLAY (CL), reddish yellow (7.5 YR 6/8) with black mottling, few limestone gravel			
20		- fat CLAY (CH), yellowish brown (10 YR 5/6) with occasional gray and black mottling, some gravel			
		- same as above, pinkish gray (7.5 YR 6/2) to dark gray (7.5 YR 4/1) with some brown mottling			
25		- weathered LIMESTONE, white (7.5 YR 8/1), with rock fragments/concretions			Annular Seal: 3/8" bentonite pellets (coated) (25.0)
		- same as above, wet			
30					Filter: silica filter sand (30.0)
35					
40					(39.0)

(Continued Next Page)



LOG OF TEST BORING

BORING PZ-45

PAGE 2 OF 2

6122160170.01

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell

LOCATION Albany, Georgia

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 12/12/16 12:47 - C:\USERS\MACKENZIE.FIOCA\DESKTOP\PLANT MITCHELL\PLANT MITCHELL.SOUTHERN COMPANY.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	Weak Moderate Strong	HCL REACTION	GROUNDWATER OBSERVATIONS	WELL DATA
						Completion: Protective casing set in concrete pad
		(Cont.) - same as above, rock fragments/concretions				(CONTINUED) (DEPTH)
45						Standpipe: 2" OD PVC (SCH 40) Screen: 10 ft; pre-pack
		- Casing fell under own weight to 49.0 ft bgs when placed in borehole. Total well depth = 49.0 ft.				
50		Bottom of borehole at 47.5 feet.				
55						
60						
65						
70						
75						
80						
85						

WELL ABANDONMENT RECORD

WELL NO.: PZ-45

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 10/15/2024



Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well

(Measured from Top of Riser): 49.0 ft btoc

Total Well Depth: 49 ft bgs

Total

Boring Depth: 47.5* ft bgs

*Casing fell under own weight to 49.0 ft bgs when placed in borehole.

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft

Screen Interval: 39 to 49 ft bgs

Depth to Water/Date

(Measure from Top of Riser): 25 feet btoc on 10/15/2024

Description of Well Abandonment Method: Piezometer abandoned in-place by filling well screen with bentonite chips and bentonite/Portland cement grout from top of bentonite to ground surface. Removed well pad and well vault.

Type and Volume of Materials Used to Plug Well/Borehole: Bentonite chips approximately 2 gallons. Bentonite/Portland cement grout: approximately 7 gallons

Riser and Screen Removed or Left in Place: Left in Place

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

Placed bentonite chips in well screen from 36.5 feet to 49 feet, btoc and allowed to hydrate. Used approximately 2 gallons of chips. Tremie grouted from top of casing to 36.5 feet btoc with bentonite/Portland cement grout. Used approximately 7 gallons of grout. Removed concrete well pad and flush-mounted well vault. Cut and removed PVC well casing to 1.5 feet below ground surface. Filled the void created when the well pad and well vault were removed with bentonite/Portland cement grout to within three inches of ground surface.

WSP USA Environment & Infrastructure Field Representative

Ever Guillen

Date Well Abandonment Completed: 10/15/2024



APPENDIX C

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS AUGUST 2024

APPENDIX C
LABORATORY ANALYTICAL
AUGUST 2024



September 10, 2024

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 15, 2024 and August 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Revision 1: COC rescanned to include all samples.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748119001	MIT-APA12-EB-02	Water	08/15/24 09:00	08/16/24 09:30
92748119002	MIT-PZ-17	Water	08/15/24 10:50	08/16/24 09:30
92748119003	MIT-PZ-33	Water	08/15/24 14:00	08/16/24 09:30
92748124001	MIT-PZ-57	Water	08/15/24 11:14	08/16/24 09:30
92748124002	MIT-APA12-FD-02	Water	08/15/24 00:00	08/16/24 09:30
92748124003	MIT-PZ-7D	Water	08/15/24 13:44	08/16/24 09:30
92747803001	MIT-APA12-FB-01	Water	08/13/24 10:35	08/15/24 09:50
92747803002	MIT-PZ-2D	Water	08/13/24 12:24	08/15/24 09:50
92747803003	MIT-PZ-32	Water	08/13/24 14:29	08/15/24 09:50
92747803004	MIT-PZ-25	Water	08/13/24 16:00	08/15/24 09:50
92747812001	MIT-PZ-1D	Water	08/13/24 13:55	08/15/24 09:40
92747812002	MIT-PZ-31	Water	08/13/24 15:35	08/15/24 09:40
92747812003	MIT-APA12-EB-01	Water	08/14/24 08:45	08/15/24 09:40
92747812004	MIT-PZ-23A	Water	08/14/24 11:02	08/15/24 09:40
92747810001	MIT-PZ-16	Water	08/14/24 10:35	08/15/24 09:40
92747810002	MIT-PZ-14	Water	08/14/24 12:10	08/15/24 09:40
92747810003	MIT-PZ-18	Water	08/14/24 15:00	08/15/24 09:40
92747810004	MIT-APA12-FD-01	Water	08/14/24 00:00	08/15/24 09:40
92747808001	MIT-APA12-FB-02	Water	08/14/24 11:55	08/15/24 09:40
92747808002	MIT-PZ-19	Water	08/14/24 13:02	08/15/24 09:40
92747808003	MIT-PZ-15	Water	08/14/24 14:54	08/15/24 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92748119001	MIT-APA12-EB-02	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748119002	MIT-PZ-17	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748119003	MIT-PZ-33	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748124001	MIT-PZ-57	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748124002	MIT-APA12-FD-02	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748124003	MIT-PZ-7D	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92747803001	MIT-APA12-FB-01	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747803002	MIT-PZ-2D	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92747803003	MIT-PZ-32	EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92747803004	MIT-PZ-25	SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747812001	MIT-PZ-1D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747812002	MIT-PZ-31	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
92747812003	MIT-APA12-EB-01	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
92747812004	MIT-PZ-23A	EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92747810001	MIT-PZ-16	SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92747810002	MIT-PZ-14	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747810003	MIT-PZ-18	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747810004	MIT-APA12-FD-01	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747808001	MIT-APA12-FB-02	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747808002	MIT-PZ-19	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
92747808003	MIT-PZ-15	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	AGM	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748119001	MIT-APA12-EB-02					
SM 2540C-2015	Total Dissolved Solids	74.0	mg/L	25.0	08/21/24 16:28	
92748119002	MIT-PZ-17					
EPA 6010D	Calcium	71.2	mg/L	1.0	08/22/24 20:54	
EPA 6020B	Barium	0.045	mg/L	0.0050	08/21/24 15:33	
EPA 6020B	Boron	0.053	mg/L	0.040	08/21/24 15:33	
SM 2540C-2015	Total Dissolved Solids	245	mg/L	25.0	08/21/24 16:28	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/17/24 19:17	
EPA 300.0 Rev 2.1 1993	Sulfate	18.3	mg/L	1.0	08/17/24 19:17	
92748119003	MIT-PZ-33					
EPA 6010D	Calcium	99.2	mg/L	1.0	08/22/24 20:58	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	08/26/24 21:06	
EPA 6020B	Barium	0.041	mg/L	0.0050	08/26/24 21:06	
EPA 6020B	Boron	0.35	mg/L	0.040	08/26/24 21:06	
SM 2540C-2015	Total Dissolved Solids	341	mg/L	25.0	08/21/24 16:28	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	08/17/24 19:32	
EPA 300.0 Rev 2.1 1993	Sulfate	31.6	mg/L	1.0	08/17/24 19:32	
92748124001	MIT-PZ-57					
EPA 6010D	Calcium	98.3	mg/L	1.0	08/22/24 21:02	
EPA 6020B	Arsenic	0.00086J	mg/L	0.0050	08/26/24 21:20	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/26/24 21:20	
EPA 6020B	Boron	0.18	mg/L	0.040	08/26/24 21:20	
EPA 6020B	Chromium	0.0044J	mg/L	0.0050	08/26/24 21:20	
EPA 6020B	Selenium	0.0010J	mg/L	0.0050	08/26/24 21:20	
SM 2540C-2015	Total Dissolved Solids	348	mg/L	25.0	08/21/24 16:29	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	08/17/24 19:47	
EPA 300.0 Rev 2.1 1993	Sulfate	59.7	mg/L	1.0	08/17/24 19:47	
92748124002	MIT-APA12-FD-02					
EPA 6010D	Calcium	99.5	mg/L	1.0	08/22/24 21:06	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	08/26/24 21:24	
EPA 6020B	Barium	0.047	mg/L	0.0050	08/26/24 21:24	
EPA 6020B	Boron	0.18	mg/L	0.040	08/26/24 21:24	
EPA 6020B	Chromium	0.0043J	mg/L	0.0050	08/26/24 21:24	
SM 2540C-2015	Total Dissolved Solids	495	mg/L	25.0	08/21/24 16:29	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	08/17/24 20:01	
EPA 300.0 Rev 2.1 1993	Sulfate	59.5	mg/L	1.0	08/17/24 20:01	
92748124003	MIT-PZ-7D					
EPA 6010D	Calcium	104	mg/L	1.0	08/22/24 21:10	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	08/26/24 21:28	
EPA 6020B	Barium	0.0055	mg/L	0.0050	08/26/24 21:28	
EPA 6020B	Boron	0.19	mg/L	0.040	08/26/24 21:28	
EPA 6020B	Chromium	0.0026J	mg/L	0.0050	08/26/24 21:28	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	08/26/24 21:28	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	08/26/24 21:28	
SM 2540C-2015	Total Dissolved Solids	350	mg/L	25.0	08/21/24 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92748124003	MIT-PZ-7D					
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	08/17/24 20:16	
EPA 300.0 Rev 2.1 1993	Sulfate	39.0	mg/L	1.0	08/17/24 20:16	
92747803001	MIT-APA12-FB-01					
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	08/21/24 14:00	
EPA 6020B	Boron	0.015J	mg/L	0.040	08/21/24 14:00	
92747803002	MIT-PZ-2D					
EPA 6010D	Calcium	14.5	mg/L	1.0	08/22/24 18:50	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	08/21/24 14:19	
EPA 6020B	Barium	0.0025J	mg/L	0.0050	08/21/24 14:19	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/21/24 14:19	
EPA 6020B	Chromium	0.0079	mg/L	0.0050	08/21/24 14:19	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	08/18/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	08/16/24 04:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	08/16/24 04:38	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	08/16/24 04:38	
92747803003	MIT-PZ-32					
EPA 6010D	Calcium	67.6	mg/L	1.0	08/22/24 18:54	
EPA 6020B	Barium	0.014	mg/L	0.0050	08/21/24 14:23	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/21/24 14:23	
SM 2540C-2015	Total Dissolved Solids	187	mg/L	25.0	08/18/24 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	08/16/24 04:51	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	08/16/24 04:51	
92747803004	MIT-PZ-25					
EPA 6010D	Calcium	88.7	mg/L	1.0	08/22/24 18:58	
EPA 6020B	Barium	0.11	mg/L	0.0050	08/21/24 14:26	
EPA 6020B	Boron	0.18	mg/L	0.040	08/21/24 14:26	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	08/21/24 14:26	
EPA 6020B	Lithium	0.0064J	mg/L	0.030	08/21/24 14:26	
EPA 6020B	Thallium	0.00080J	mg/L	0.0010	08/21/24 14:26	
SM 2540C-2015	Total Dissolved Solids	273	mg/L	25.0	08/18/24 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	08/16/24 05:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/16/24 05:05	
EPA 300.0 Rev 2.1 1993	Sulfate	34.8	mg/L	1.0	08/16/24 05:05	
92747812001	MIT-PZ-1D					
EPA 6010D	Calcium	48.5	mg/L	1.0	08/22/24 19:36	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/21/24 15:10	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	08/18/24 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	08/16/24 07:39	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	08/16/24 07:39	
92747812002	MIT-PZ-31					
EPA 6010D	Calcium	93.2	mg/L	1.0	08/22/24 19:40	
EPA 6020B	Barium	0.0071	mg/L	0.0050	08/21/24 15:14	
SM 2540C-2015	Total Dissolved Solids	263	mg/L	25.0	08/18/24 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	08/16/24 07:53	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747812002	MIT-PZ-31					
EPA 300.0 Rev 2.1 1993	Sulfate	0.80J	mg/L	1.0	08/16/24 07:53	
92747812004	MIT-PZ-23A					
EPA 6010D	Calcium	141	mg/L	1.0	08/22/24 20:05	M1
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	08/21/24 15:21	
EPA 6020B	Barium	0.036	mg/L	0.0050	08/21/24 15:21	
EPA 6020B	Boron	0.16	mg/L	0.040	08/21/24 15:21	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	08/21/24 15:21	
SM 2540C-2015	Total Dissolved Solids	436	mg/L	31.2	08/19/24 11:51	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	08/16/24 08:07	
EPA 300.0 Rev 2.1 1993	Sulfate	43.4	mg/L	1.0	08/16/24 08:07	
92747810001	MIT-PZ-16					
EPA 6010D	Calcium	97.5	mg/L	1.0	08/22/24 19:20	
EPA 6020B	Barium	0.036	mg/L	0.0050	08/21/24 14:41	
EPA 6020B	Boron	0.19	mg/L	0.040	08/21/24 14:41	
SM 2540C-2015	Total Dissolved Solids	311	mg/L	25.0	08/19/24 11:50	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	08/16/24 06:43	
EPA 300.0 Rev 2.1 1993	Sulfate	38.8	mg/L	1.0	08/16/24 06:43	
92747810002	MIT-PZ-14					
EPA 6010D	Calcium	100	mg/L	1.0	08/22/24 19:24	
EPA 6020B	Barium	0.013	mg/L	0.0050	08/21/24 14:45	
EPA 6020B	Boron	0.035J	mg/L	0.040	08/21/24 14:45	
SM 2540C-2015	Total Dissolved Solids	284	mg/L	25.0	08/19/24 11:50	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/16/24 06:57	
EPA 300.0 Rev 2.1 1993	Sulfate	17.3	mg/L	1.0	08/16/24 06:57	
92747810003	MIT-PZ-18					
EPA 6010D	Calcium	139	mg/L	1.0	08/22/24 19:28	
EPA 6020B	Barium	0.025	mg/L	0.0050	08/21/24 14:48	
EPA 6020B	Boron	0.37	mg/L	0.040	08/21/24 14:48	
EPA 6020B	Lithium	0.0041J	mg/L	0.030	08/21/24 14:48	
SM 2540C-2015	Total Dissolved Solids	468	mg/L	31.2	08/19/24 11:50	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	08/16/24 07:11	
EPA 300.0 Rev 2.1 1993	Sulfate	94.3	mg/L	1.0	08/16/24 07:11	
92747810004	MIT-APA12-FD-01					
EPA 6010D	Calcium	139	mg/L	1.0	08/22/24 19:32	
EPA 6020B	Arsenic	0.00088J	mg/L	0.0050	08/21/24 14:52	
EPA 6020B	Barium	0.025	mg/L	0.0050	08/21/24 14:52	
EPA 6020B	Boron	0.38	mg/L	0.040	08/21/24 14:52	
EPA 6020B	Lithium	0.0042J	mg/L	0.030	08/21/24 14:52	
SM 2540C-2015	Total Dissolved Solids	462	mg/L	31.2	08/19/24 11:51	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	08/16/24 07:25	
EPA 300.0 Rev 2.1 1993	Sulfate	94.6	mg/L	1.0	08/16/24 07:25	
92747808002	MIT-PZ-19					
EPA 6010D	Calcium	118	mg/L	1.0	08/22/24 19:05	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/21/24 14:34	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747808002	MIT-PZ-19					
EPA 6020B	Boron	0.35	mg/L	0.040	08/21/24 14:34	
EPA 6020B	Lithium	0.012J	mg/L	0.030	08/21/24 14:34	
EPA 6020B	Molybdenum	0.0023J	mg/L	0.010	08/21/24 14:34	
EPA 6020B	Selenium	0.0053	mg/L	0.0050	08/21/24 14:34	
EPA 6020B	Thallium	0.00045J	mg/L	0.0010	08/21/24 14:34	
SM 2540C-2015	Total Dissolved Solids	436	mg/L	31.2	08/19/24 11:50	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	08/16/24 06:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	08/16/24 06:15	
EPA 300.0 Rev 2.1 1993	Sulfate	61.7	mg/L	1.0	08/16/24 06:15	
92747808003	MIT-PZ-15					
EPA 6010D	Calcium	98.0	mg/L	1.0	08/22/24 19:09	
EPA 6020B	Barium	0.046	mg/L	0.0050	08/21/24 14:37	
EPA 6020B	Boron	0.18	mg/L	0.040	08/21/24 14:37	
SM 2540C-2015	Total Dissolved Solids	342	mg/L	25.0	08/19/24 11:50	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	08/16/24 06:29	
EPA 300.0 Rev 2.1 1993	Sulfate	78.4	mg/L	1.0	08/16/24 06:29	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-EB-02		Lab ID: 92748119001		Collected: 08/15/24 09:00		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 20:50	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:22	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:22	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:22	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 13:59	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	74.0	mg/L	25.0	25.0	1		08/21/24 16:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		08/17/24 14:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 14:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/17/24 14:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-17		Lab ID: 92748119002		Collected: 08/15/24 10:50		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	71.2	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 20:54	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:33	7440-38-2	
Barium	0.045	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:33	7440-41-7	
Boron	0.053	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:33	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:02	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	245	mg/L	25.0	25.0	1		08/21/24 16:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	1.3	mg/L	1.0	0.60	1		08/17/24 19:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 19:17	16984-48-8	
Sulfate	18.3	mg/L	1.0	0.50	1		08/17/24 19:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-33		Lab ID: 92748119003		Collected: 08/15/24 14:00		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	99.2	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 20:58	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 21:06	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 21:06	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 21:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 21:06	7440-41-7	
Boron	0.35	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 21:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 21:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 21:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 21:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 21:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 21:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 21:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 21:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 21:06	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:04	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	341	mg/L	25.0	25.0	1		08/21/24 16:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.9	mg/L	1.0	0.60	1		08/17/24 19:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 19:32	16984-48-8	
Sulfate	31.6	mg/L	1.0	0.50	1		08/17/24 19:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

Sample: MIT-PZ-57		Lab ID: 92748124001		Collected: 08/15/24 11:14		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	98.3	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 21:02	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 21:20	7440-36-0	
Arsenic	0.00086J	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 21:20	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 21:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 21:20	7440-41-7	
Boron	0.18	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 21:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 21:20	7440-43-9	
Chromium	0.0044J	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 21:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 21:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 21:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 21:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 21:20	7439-98-7	
Selenium	0.0010J	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 21:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 21:20	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:07	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	348	mg/L	25.0	25.0	1		08/21/24 16:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.0	mg/L	1.0	0.60	1		08/17/24 19:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 19:47	16984-48-8	
Sulfate	59.7	mg/L	1.0	0.50	1		08/17/24 19:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-FD-02		Lab ID: 92748124002		Collected: 08/15/24 00:00		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	99.5	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 21:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 21:24	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 21:24	7440-38-2	
Barium	0.047	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 21:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 21:24	7440-41-7	
Boron	0.18	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 21:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 21:24	7440-43-9	
Chromium	0.0043J	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 21:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 21:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 21:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 21:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 21:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 21:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 21:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	495	mg/L	25.0	25.0	1		08/21/24 16:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		08/17/24 20:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 20:01	16984-48-8	
Sulfate	59.5	mg/L	1.0	0.50	1		08/17/24 20:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-7D		Lab ID: 92748124003		Collected: 08/15/24 13:44		Received: 08/16/24 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	104	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 21:10	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 21:28	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 21:28	7440-38-2	
Barium	0.0055	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 21:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 21:28	7440-41-7	
Boron	0.19	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 21:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 21:28	7440-43-9	
Chromium	0.0026J	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 21:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 21:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 21:28	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 21:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 21:28	7439-98-7	
Selenium	0.0011J	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 21:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 21:28	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:12	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	350	mg/L	25.0	25.0	1		08/21/24 16:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	3.3	mg/L	1.0	0.60	1		08/17/24 20:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 20:16	16984-48-8	
Sulfate	39.0	mg/L	1.0	0.50	1		08/17/24 20:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-FB-01		Lab ID: 92747803001		Collected: 08/13/24 10:35		Received: 08/15/24 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 18:46	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.0018J	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:00	7440-41-7	
Boron	0.015J	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:00	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 13:42	7439-97-6	R1
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/18/24 12:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		08/15/24 23:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/15/24 23:31	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/15/24 23:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-2D		Lab ID: 92747803002		Collected: 08/13/24 12:24		Received: 08/15/24 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	14.5	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 18:50	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:19	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:19	7440-38-2	
Barium	0.0025J	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:19	7440-41-7	
Boron	0.017J	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:19	7440-43-9	
Chromium	0.0079	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:19	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 13:52	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	69.0	mg/L	25.0	25.0	1		08/18/24 12:31		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.4	mg/L	1.0	0.60	1		08/16/24 04:38	16887-00-6	
Fluoride	0.083J	mg/L	0.10	0.050	1		08/16/24 04:38	16984-48-8	
Sulfate	3.3	mg/L	1.0	0.50	1		08/16/24 04:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-32		Lab ID: 92747803003		Collected: 08/13/24 14:29		Received: 08/15/24 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	67.6	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 18:54	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:23	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:23	7440-41-7	
Boron	0.017J	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:23	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 13:55	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	187	mg/L	25.0	25.0	1		08/18/24 12:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.5	mg/L	1.0	0.60	1		08/16/24 04:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 04:51	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		08/16/24 04:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-25		Lab ID: 92747803004		Collected: 08/13/24 16:00		Received: 08/15/24 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	88.7	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 18:58	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:26	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:26	7440-41-7	
Boron	0.18	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:26	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:26	7439-92-1	
Lithium	0.0064J	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:26	7782-49-2	
Thallium	0.00080J	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:26	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:03	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	273	mg/L	25.0	25.0	1		08/18/24 12:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	1.6	mg/L	1.0	0.60	1		08/16/24 05:05	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		08/16/24 05:05	16984-48-8	
Sulfate	34.8	mg/L	1.0	0.50	1		08/16/24 05:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-1D		Lab ID: 92747812001		Collected: 08/13/24 13:55		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	48.5	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:36	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:10	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:10	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:10	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:24	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	163	mg/L	25.0	25.0	1		08/18/24 12:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.9	mg/L	1.0	0.60	1		08/16/24 07:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 07:39	16984-48-8	
Sulfate	2.5	mg/L	1.0	0.50	1		08/16/24 07:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-31		Lab ID: 92747812002		Collected: 08/13/24 15:35		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	93.2	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:40	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:14	7440-38-2	
Barium	0.0071	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:14	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:14	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:26	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	263	mg/L	25.0	25.0	1		08/18/24 12:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	3.2	mg/L	1.0	0.60	1		08/16/24 07:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 07:53	16984-48-8	
Sulfate	0.80J	mg/L	1.0	0.50	1		08/16/24 07:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-EB-01		Lab ID: 92747812003		Collected: 08/14/24 08:45		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:47	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:17	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:17	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:17	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:34	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/19/24 11:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		08/16/24 00:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 00:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/16/24 00:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-23A		Lab ID: 92747812004		Collected: 08/14/24 11:02		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	141	mg/L	1.0	0.12	1	08/22/24 11:12	08/22/24 20:05	7440-70-2	M1
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 15:21	7440-36-0	
Arsenic	0.00089J	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 15:21	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 15:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 15:21	7440-41-7	
Boron	0.16	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 15:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 15:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 15:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 15:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 15:21	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 15:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 15:21	7439-98-7	
Selenium	0.0019J	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 15:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 15:21	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:37	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	436	mg/L	31.2	31.2	1		08/19/24 11:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.8	mg/L	1.0	0.60	1		08/16/24 08:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 08:07	16984-48-8	
Sulfate	43.4	mg/L	1.0	0.50	1		08/16/24 08:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-16		Lab ID: 92747810001		Collected: 08/14/24 10:35		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	97.5	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:20	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:41	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:41	7440-41-7	
Boron	0.19	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:41	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:13	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	311	mg/L	25.0	25.0	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	5.9	mg/L	1.0	0.60	1		08/16/24 06:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 06:43	16984-48-8	
Sulfate	38.8	mg/L	1.0	0.50	1		08/16/24 06:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-14		Lab ID: 92747810002		Collected: 08/14/24 12:10		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	100	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:24	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:45	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:45	7440-41-7	
Boron	0.035J	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:45	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:16	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	284	mg/L	25.0	25.0	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.4	mg/L	1.0	0.60	1		08/16/24 06:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 06:57	16984-48-8	
Sulfate	17.3	mg/L	1.0	0.50	1		08/16/24 06:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-18		Lab ID: 92747810003		Collected: 08/14/24 15:00		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	139	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:28	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:48	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:48	7440-41-7	
Boron	0.37	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:48	7439-92-1	
Lithium	0.0041J	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:48	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:18	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	468	mg/L	31.2	31.2	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.2	mg/L	1.0	0.60	1		08/16/24 07:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 07:11	16984-48-8	
Sulfate	94.3	mg/L	1.0	0.50	1		08/16/24 07:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-FD-01		Lab ID: 92747810004		Collected: 08/14/24 00:00		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	139	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:32	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:52	7440-36-0	
Arsenic	0.00088J	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:52	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:52	7440-41-7	
Boron	0.38	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:52	7439-92-1	
Lithium	0.0042J	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:52	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:21	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	462	mg/L	31.2	31.2	1		08/19/24 11:51		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.2	mg/L	1.0	0.60	1		08/16/24 07:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 07:25	16984-48-8	
Sulfate	94.6	mg/L	1.0	0.50	1		08/16/24 07:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-APA12-FB-02		Lab ID: 92747808001		Collected: 08/14/24 11:55		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:01	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:30	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:30	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:05	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		08/15/24 23:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/15/24 23:45	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/15/24 23:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-19		Lab ID: 92747808002		Collected: 08/14/24 13:02		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	118	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:05	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:34	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:34	7440-41-7	
Boron	0.35	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:34	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:34	7439-93-2	
Molybdenum	0.0023J	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:34	7439-98-7	
Selenium	0.0053	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:34	7782-49-2	
Thallium	0.00045J	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:34	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:08	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	436	mg/L	31.2	31.2	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.5	mg/L	1.0	0.60	1		08/16/24 06:15	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		08/16/24 06:15	16984-48-8	
Sulfate	61.7	mg/L	1.0	0.50	1		08/16/24 06:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Sample: MIT-PZ-15		Lab ID: 92747808003		Collected: 08/14/24 14:54		Received: 08/15/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	98.0	mg/L	1.0	0.12	1	08/22/24 09:23	08/22/24 19:09	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00054	1	08/17/24 10:57	08/21/24 14:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/17/24 10:57	08/21/24 14:37	7440-38-2	
Barium	0.046	mg/L	0.0050	0.00047	1	08/17/24 10:57	08/21/24 14:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/17/24 10:57	08/21/24 14:37	7440-41-7	
Boron	0.18	mg/L	0.040	0.012	1	08/17/24 10:57	08/21/24 14:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/17/24 10:57	08/21/24 14:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/17/24 10:57	08/21/24 14:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/17/24 10:57	08/21/24 14:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/17/24 10:57	08/21/24 14:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/17/24 10:57	08/21/24 14:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:57	08/21/24 14:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/17/24 10:57	08/21/24 14:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/17/24 10:57	08/21/24 14:37	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 10:00	08/26/24 14:11	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	342	mg/L	25.0	25.0	1		08/19/24 11:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	6.1	mg/L	1.0	0.60	1		08/16/24 06:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/16/24 06:29	16984-48-8	
Sulfate	78.4	mg/L	1.0	0.50	1		08/16/24 06:29	14808-79-8	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch:	877247	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003

METHOD BLANK:	4518486	Matrix:	Water
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Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/22/24 18:01	

LABORATORY CONTROL SAMPLE:		4518487				
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					4518488		4518489						
Parameter	Units	92747047019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Calcium	mg/L	80.8	1	1	79.3	78.7	-153	-215	75-125	1	20	M1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

QC Batch: 877486

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747812004, 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

METHOD BLANK: 4519842

Matrix: Water

Associated Lab Samples: 92747812004, 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/22/24 19:51	

LABORATORY CONTROL SAMPLE: 4519843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4519844 4519845

Parameter	Units	92747812004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	141	1	1	142	144	82	234	75-125	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch: 876408 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003, 92747812004

METHOD BLANK: 4514729 Matrix: Water
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003, 92747812004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/21/24 13:26	
Arsenic	mg/L	ND	0.0050	0.00084	08/21/24 13:26	
Barium	mg/L	ND	0.0050	0.00047	08/21/24 13:26	
Beryllium	mg/L	ND	0.00050	0.000094	08/21/24 13:26	
Boron	mg/L	ND	0.040	0.012	08/21/24 13:26	
Cadmium	mg/L	ND	0.00050	0.00010	08/21/24 13:26	
Chromium	mg/L	ND	0.0050	0.0019	08/21/24 13:26	
Cobalt	mg/L	ND	0.0050	0.00032	08/21/24 13:26	
Lead	mg/L	ND	0.0010	0.00016	08/21/24 13:26	
Lithium	mg/L	ND	0.030	0.0016	08/21/24 13:26	
Molybdenum	mg/L	ND	0.010	0.00062	08/21/24 13:26	
Selenium	mg/L	ND	0.0050	0.00096	08/21/24 13:26	
Thallium	mg/L	ND	0.0010	0.00038	08/21/24 13:26	

LABORATORY CONTROL SAMPLE: 4514730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	105	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	105	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514731 4514732											
Parameter	Units	92747047023		MS		MSD		MS		MSD	
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	% Rec	Max
								Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	75-125	1	20	
Barium	mg/L	0.075	0.1	0.1	0.17	0.17	100	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.097	97	75-125	1	20	
Boron	mg/L	0.028J	1	1	0.95	0.94	92	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	75-125	1	20	
Lithium	mg/L	0.015J	0.1	0.1	0.11	0.11	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

QC Batch: 876409

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92748119001, 92748119002

METHOD BLANK: 4514733

Matrix: Water

Associated Lab Samples: 92748119001, 92748119002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00054J	0.0030	0.00054	08/21/24 13:16	
Arsenic	mg/L	ND	0.0050	0.00084	08/21/24 13:16	
Barium	mg/L	ND	0.0050	0.00047	08/21/24 13:16	
Beryllium	mg/L	ND	0.00050	0.000094	08/21/24 13:16	
Boron	mg/L	ND	0.040	0.012	08/21/24 13:16	
Cadmium	mg/L	ND	0.00050	0.00010	08/21/24 13:16	
Chromium	mg/L	ND	0.0050	0.0019	08/21/24 13:16	
Cobalt	mg/L	ND	0.0050	0.00032	08/21/24 13:16	
Lead	mg/L	ND	0.0010	0.00016	08/21/24 13:16	
Lithium	mg/L	ND	0.030	0.0016	08/21/24 13:16	
Molybdenum	mg/L	ND	0.010	0.00062	08/21/24 13:16	
Selenium	mg/L	ND	0.0050	0.00096	08/21/24 13:16	
Thallium	mg/L	ND	0.0010	0.00038	08/21/24 13:16	

LABORATORY CONTROL SAMPLE: 4514734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514735

4514736

Parameter	Units	92748048002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	104	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4514735		4514736							
Parameter	Units	92748048002	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Barium	mg/L	99.0 ug/L	0.1	0.1	0.21	0.20	107	99	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	1	20	
Boron	mg/L	2610 ug/L	1	1	3.5	3.5	86	91	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.097	103	97	75-125	6	20	
Cobalt	mg/L	175 ug/L	0.1	0.1	0.29	0.26	112	87	75-125	9	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.094	98	93	75-125	5	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	98	98	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	104	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.093	95	92	75-125	3	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch: 877798 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748119003, 92748124001, 92748124002, 92748124003

METHOD BLANK: 4521510 Matrix: Water
Associated Lab Samples: 92748119003, 92748124001, 92748124002, 92748124003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/26/24 20:58	
Arsenic	mg/L	ND	0.0050	0.00084	08/26/24 20:58	
Barium	mg/L	ND	0.0050	0.00047	08/26/24 20:58	
Beryllium	mg/L	ND	0.00050	0.000094	08/26/24 20:58	
Boron	mg/L	ND	0.040	0.012	08/26/24 20:58	
Cadmium	mg/L	ND	0.00050	0.00010	08/26/24 20:58	
Chromium	mg/L	ND	0.0050	0.0019	08/26/24 20:58	
Cobalt	mg/L	ND	0.0050	0.00032	08/26/24 20:58	
Lead	mg/L	ND	0.0010	0.00016	08/26/24 20:58	
Lithium	mg/L	ND	0.030	0.0016	08/26/24 20:58	
Molybdenum	mg/L	ND	0.010	0.00062	08/26/24 20:58	
Selenium	mg/L	ND	0.0050	0.00096	08/26/24 20:58	
Thallium	mg/L	ND	0.0010	0.00038	08/26/24 20:58	

LABORATORY CONTROL SAMPLE: 4521511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521512 4521513

Parameter	Units	92748119003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Arsenic	mg/L	0.0013J	0.1	0.1	0.099	0.099	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4521512		4521513							
Parameter	Units	92748119003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Barium	mg/L	0.041	0.1	0.1	0.13	0.13	93	93	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Boron	mg/L	0.35	1	1	1.3	1.3	99	97	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	97	98	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	95	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.093	91	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch: 877190 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003, 92747812004

METHOD BLANK: 4518068 Matrix: Water
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002, 92747812003, 92747812004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/26/24 13:34	

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518070 4518071											
Parameter	Units	92747803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0025	80	100	75-125	21	20 R1

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch:	878334	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

METHOD BLANK: 4524107 Matrix: Water
Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/27/24 13:22	

LABORATORY CONTROL SAMPLE: 4524108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524109 4524110

Parameter	Units	92748048013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	93	91	75-125	2	20	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch:	877174	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

METHOD BLANK: 4518022 Matrix: Water
Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/24 16:23	

LABORATORY CONTROL SAMPLE: 4518023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	80-120	

SAMPLE DUPLICATE: 4518024

Parameter	Units	92748019001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	373	350	6	10	

SAMPLE DUPLICATE: 4518025

Parameter	Units	92748119002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	245	255	4	10	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch: 876382 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747812001, 92747812002

METHOD BLANK: 4514654 Matrix: Water
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747812001, 92747812002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/18/24 12:30	

LABORATORY CONTROL SAMPLE: 4514655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4514656

Parameter	Units	92747515001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	104	2	25	

SAMPLE DUPLICATE: 4514657

Parameter	Units	92747630010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

QC Batch:	876495	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812003, 92747812004		

METHOD BLANK:	4514973	Matrix:	Water
Associated Lab Samples:	92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812003, 92747812004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/19/24 11:49	

LABORATORY CONTROL SAMPLE:	4514974					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE:	4514975					
Parameter	Units	92747688001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5560	5800	4	25	

SAMPLE DUPLICATE:	4514976					
Parameter	Units	92747812003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch:	876002	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002		

METHOD BLANK: 4512588 Matrix: Water
Associated Lab Samples: 92747803001, 92747803002, 92747803003, 92747803004, 92747808001, 92747808002, 92747808003, 92747810001, 92747810002, 92747810003, 92747810004, 92747812001, 92747812002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/24 21:36	
Fluoride	mg/L	ND	0.10	0.050	08/15/24 21:36	
Sulfate	mg/L	ND	1.0	0.50	08/15/24 21:36	

LABORATORY CONTROL SAMPLE: 4512589						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512590 4512591												
Parameter	Units	92747679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.3	50	50	90.1	93.2	96	102	90-110	3	10	
Fluoride	mg/L	0.35	2.5	2.5	2.8	2.9	97	103	90-110	5	10	
Sulfate	mg/L	157	50	50	198	208	82	101	90-110	5	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512592 4512593												
Parameter	Units	92747803004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	52.4	53.1	102	103	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	34.8	50	50	85.2	86.0	101	102	90-110	1	10	

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

QC Batch: 876003

Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92747812003, 92747812004

METHOD BLANK: 4512595

Matrix: Water

Associated Lab Samples: 92747812003, 92747812004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/24 23:03	
Fluoride	mg/L	ND	0.10	0.050	08/15/24 23:03	
Sulfate	mg/L	ND	1.0	0.50	08/15/24 23:03	

LABORATORY CONTROL SAMPLE: 4512596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512597 4512598

Parameter	Units	92747812003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.1	51.1	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	101	90-110	0	10	
Sulfate	mg/L	ND	50	50	50.7	51.7	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512599 4512600

Parameter	Units	92747855009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.3	50	50	53.2	54.0	102	103	90-110	1	10	
Fluoride	mg/L	0.13	2.5	2.5	2.7	2.7	102	104	90-110	2	10	
Sulfate	mg/L	8.2	50	50	60.1	60.9	104	105	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

QC Batch: 876404 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

METHOD BLANK: 4514707 Matrix: Water
Associated Lab Samples: 92748119001, 92748119002, 92748119003, 92748124001, 92748124002, 92748124003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/17/24 12:49	
Fluoride	mg/L	ND	0.10	0.050	08/17/24 12:49	
Sulfate	mg/L	ND	1.0	0.50	08/17/24 12:49	

LABORATORY CONTROL SAMPLE: 4514708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.1	98	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514709 4514710

Parameter	Units	92748099001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.6	50	50	58.6	58.8	100	100	90-110	0	10	H3
Fluoride	mg/L	0.14	2.5	2.5	2.5	2.6	95	97	90-110	2	10	H3
Sulfate	mg/L	168	50	50	213	213	90	89	90-110	0	10	H3,M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514711 4514712

Parameter	Units	92746012007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.5	50.0	99	100	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.4	109	96	90-110	13	10	R1
Sulfate	mg/L	ND	50	50	49.5	49.7	99	99	90-110	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92748119

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747803001	MIT-APA12-FB-01	EPA 3010A	877247	EPA 6010D	877528
92747803002	MIT-PZ-2D	EPA 3010A	877247	EPA 6010D	877528
92747803003	MIT-PZ-32	EPA 3010A	877247	EPA 6010D	877528
92747803004	MIT-PZ-25	EPA 3010A	877247	EPA 6010D	877528
92747808001	MIT-APA12-FB-02	EPA 3010A	877247	EPA 6010D	877528
92747808002	MIT-PZ-19	EPA 3010A	877247	EPA 6010D	877528
92747808003	MIT-PZ-15	EPA 3010A	877247	EPA 6010D	877528
92747810001	MIT-PZ-16	EPA 3010A	877247	EPA 6010D	877528
92747810002	MIT-PZ-14	EPA 3010A	877247	EPA 6010D	877528
92747810003	MIT-PZ-18	EPA 3010A	877247	EPA 6010D	877528
92747810004	MIT-APA12-FD-01	EPA 3010A	877247	EPA 6010D	877528
92747812001	MIT-PZ-1D	EPA 3010A	877247	EPA 6010D	877528
92747812002	MIT-PZ-31	EPA 3010A	877247	EPA 6010D	877528
92747812003	MIT-APA12-EB-01	EPA 3010A	877247	EPA 6010D	877528
92747812004	MIT-PZ-23A	EPA 3010A	877486	EPA 6010D	877577
92748119001	MIT-APA12-EB-02	EPA 3010A	877486	EPA 6010D	877577
92748119002	MIT-PZ-17	EPA 3010A	877486	EPA 6010D	877577
92748119003	MIT-PZ-33	EPA 3010A	877486	EPA 6010D	877577
92748124001	MIT-PZ-57	EPA 3010A	877486	EPA 6010D	877577
92748124002	MIT-APA12-FD-02	EPA 3010A	877486	EPA 6010D	877577
92748124003	MIT-PZ-7D	EPA 3010A	877486	EPA 6010D	877577
92747803001	MIT-APA12-FB-01	EPA 3005A	876408	EPA 6020B	876460
92747803002	MIT-PZ-2D	EPA 3005A	876408	EPA 6020B	876460
92747803003	MIT-PZ-32	EPA 3005A	876408	EPA 6020B	876460
92747803004	MIT-PZ-25	EPA 3005A	876408	EPA 6020B	876460
92747808001	MIT-APA12-FB-02	EPA 3005A	876408	EPA 6020B	876460
92747808002	MIT-PZ-19	EPA 3005A	876408	EPA 6020B	876460
92747808003	MIT-PZ-15	EPA 3005A	876408	EPA 6020B	876460
92747810001	MIT-PZ-16	EPA 3005A	876408	EPA 6020B	876460
92747810002	MIT-PZ-14	EPA 3005A	876408	EPA 6020B	876460
92747810003	MIT-PZ-18	EPA 3005A	876408	EPA 6020B	876460
92747810004	MIT-APA12-FD-01	EPA 3005A	876408	EPA 6020B	876460
92747812001	MIT-PZ-1D	EPA 3005A	876408	EPA 6020B	876460
92747812002	MIT-PZ-31	EPA 3005A	876408	EPA 6020B	876460
92747812003	MIT-APA12-EB-01	EPA 3005A	876408	EPA 6020B	876460
92747812004	MIT-PZ-23A	EPA 3005A	876408	EPA 6020B	876460
92748119001	MIT-APA12-EB-02	EPA 3005A	876409	EPA 6020B	876459
92748119002	MIT-PZ-17	EPA 3005A	876409	EPA 6020B	876459
92748119003	MIT-PZ-33	EPA 3005A	877798	EPA 6020B	877921
92748124001	MIT-PZ-57	EPA 3005A	877798	EPA 6020B	877921
92748124002	MIT-APA12-FD-02	EPA 3005A	877798	EPA 6020B	877921
92748124003	MIT-PZ-7D	EPA 3005A	877798	EPA 6020B	877921
92747803001	MIT-APA12-FB-01	EPA 7470A	877190	EPA 7470A	878171
92747803002	MIT-PZ-2D	EPA 7470A	877190	EPA 7470A	878171
92747803003	MIT-PZ-32	EPA 7470A	877190	EPA 7470A	878171
92747803004	MIT-PZ-25	EPA 7470A	877190	EPA 7470A	878171

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747808001	MIT-APA12-FB-02	EPA 7470A	877190	EPA 7470A	878171
92747808002	MIT-PZ-19	EPA 7470A	877190	EPA 7470A	878171
92747808003	MIT-PZ-15	EPA 7470A	877190	EPA 7470A	878171
92747810001	MIT-PZ-16	EPA 7470A	877190	EPA 7470A	878171
92747810002	MIT-PZ-14	EPA 7470A	877190	EPA 7470A	878171
92747810003	MIT-PZ-18	EPA 7470A	877190	EPA 7470A	878171
92747810004	MIT-APA12-FD-01	EPA 7470A	877190	EPA 7470A	878171
92747812001	MIT-PZ-1D	EPA 7470A	877190	EPA 7470A	878171
92747812002	MIT-PZ-31	EPA 7470A	877190	EPA 7470A	878171
92747812003	MIT-APA12-EB-01	EPA 7470A	877190	EPA 7470A	878171
92747812004	MIT-PZ-23A	EPA 7470A	877190	EPA 7470A	878171
92748119001	MIT-APA12-EB-02	EPA 7470A	878334	EPA 7470A	878506
92748119002	MIT-PZ-17	EPA 7470A	878334	EPA 7470A	878506
92748119003	MIT-PZ-33	EPA 7470A	878334	EPA 7470A	878506
92748124001	MIT-PZ-57	EPA 7470A	878334	EPA 7470A	878506
92748124002	MIT-APA12-FD-02	EPA 7470A	878334	EPA 7470A	878506
92748124003	MIT-PZ-7D	EPA 7470A	878334	EPA 7470A	878506
92748119001	MIT-APA12-EB-02	SM 2540C-2015	877174		
92748119002	MIT-PZ-17	SM 2540C-2015	877174		
92748119003	MIT-PZ-33	SM 2540C-2015	877174		
92748124001	MIT-PZ-57	SM 2540C-2015	877174		
92748124002	MIT-APA12-FD-02	SM 2540C-2015	877174		
92748124003	MIT-PZ-7D	SM 2540C-2015	877174		
92747803001	MIT-APA12-FB-01	SM 2540C-2015	876382		
92747803002	MIT-PZ-2D	SM 2540C-2015	876382		
92747803003	MIT-PZ-32	SM 2540C-2015	876382		
92747803004	MIT-PZ-25	SM 2540C-2015	876382		
92747808001	MIT-APA12-FB-02	SM 2540C-2015	876495		
92747808002	MIT-PZ-19	SM 2540C-2015	876495		
92747808003	MIT-PZ-15	SM 2540C-2015	876495		
92747810001	MIT-PZ-16	SM 2540C-2015	876495		
92747810002	MIT-PZ-14	SM 2540C-2015	876495		
92747810003	MIT-PZ-18	SM 2540C-2015	876495		
92747810004	MIT-APA12-FD-01	SM 2540C-2015	876495		
92747812001	MIT-PZ-1D	SM 2540C-2015	876382		
92747812002	MIT-PZ-31	SM 2540C-2015	876382		
92747812003	MIT-APA12-EB-01	SM 2540C-2015	876495		
92747812004	MIT-PZ-23A	SM 2540C-2015	876495		
92747803001	MIT-APA12-FB-01	EPA 300.0 Rev 2.1 1993	876002		
92747803002	MIT-PZ-2D	EPA 300.0 Rev 2.1 1993	876002		
92747803003	MIT-PZ-32	EPA 300.0 Rev 2.1 1993	876002		
92747803004	MIT-PZ-25	EPA 300.0 Rev 2.1 1993	876002		
92747808001	MIT-APA12-FB-02	EPA 300.0 Rev 2.1 1993	876002		
92747808002	MIT-PZ-19	EPA 300.0 Rev 2.1 1993	876002		
92747808003	MIT-PZ-15	EPA 300.0 Rev 2.1 1993	876002		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2

Pace Project No.: 92748119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747810001	MIT-PZ-16	EPA 300.0 Rev 2.1 1993	876002		
92747810002	MIT-PZ-14	EPA 300.0 Rev 2.1 1993	876002		
92747810003	MIT-PZ-18	EPA 300.0 Rev 2.1 1993	876002		
92747810004	MIT-APA12-FD-01	EPA 300.0 Rev 2.1 1993	876002		
92747812001	MIT-PZ-1D	EPA 300.0 Rev 2.1 1993	876002		
92747812002	MIT-PZ-31	EPA 300.0 Rev 2.1 1993	876002		
92747812003	MIT-APA12-EB-01	EPA 300.0 Rev 2.1 1993	876003		
92747812004	MIT-PZ-23A	EPA 300.0 Rev 2.1 1993	876003		
92748119001	MIT-APA12-EB-02	EPA 300.0 Rev 2.1 1993	876404		
92748119002	MIT-PZ-17	EPA 300.0 Rev 2.1 1993	876404		
92748119003	MIT-PZ-33	EPA 300.0 Rev 2.1 1993	876404		
92748124001	MIT-PZ-57	EPA 300.0 Rev 2.1 1993	876404		
92748124002	MIT-APA12-FD-02	EPA 300.0 Rev 2.1 1993	876404		
92748124003	MIT-PZ-7D	EPA 300.0 Rev 2.1 1993	876404		

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DC# Title: ENV-FRM-HUNT-0085 V05 Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐



Client Name:

Georgia Power - Mitchell

Project #:

WO#: 92748119



Courier:
☐ Commercial

☒ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Pace ☐ Other:

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/16/24 am

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen?
☐ Yes ☐ No ☒ N/A

Thermometer:

☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 3.8 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.8

USDA Regulated Soil (☐ N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☒ Yes ☐ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☒ No ☐ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: WA W6			
Headspace in VOA Vials (>5-Gmm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

7778 6898 5109

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

W0#: 92748119

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/B015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

PM: BV

Due Date: 08/30/24

CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client: GA Power-Mitchell Profile/EZ (Circle one) 3142242 Notes

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (CL-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CL-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (pH)	BP4B-125 mL Plastic NaOH (pH > 12) (CL-)	WGEU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CL-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CL-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A) (CL-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 Vials per Kit)-VPH/Gas Kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3H-250 mL Plastic (NH2)2SO4 (pH 3-9.7)	AG6U-500 mL Amber Unpreserved (N/A) (CL-)	USGU-20 mL Scintillation vials (N/A)	
CC		AS GA			51		GA																				
1		1	1		2		1																				
2		1	1		2		1																				
3		1	1		2		1																				
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

LAB USE ONLY - Affix Workorder/Login Label Here																																																	
CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields Customer Name: Georgia Power - Mitchell Street Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308 Project Name: MIT- BACKGROUND DETECTION MONITORING WELL NETWORK Site Collection info/Facility ID (as applicable): Time Zone Collected: [] AK [] PT [] MT [] CT [] ET [] Data Deliverables: [] Level II [] Level III [] Level IV [] EQUS [] Other Regulatory Program (DW, RDB, etc) as applicable: Georgia [] Yes [] No Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (LL), Biosolid (BS), Other (OT) Analysis Requested: [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other [] Rush (Pre-approval required): [] Yes [] No Field Filtered (if applicable): [] Yes [] No Preservation non-conformance identified for sample: Specimen Container Size ** Identify Container Preservation Type*** Analysis Requested: Pres. Met: Bonnie Vang Account / Client ID: Table #: Profile / Template: 16601 Presig / Bottle Ord. ID: EZ 3142292 Sample Comment:																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Customer Sample ID</th> <th>Comp / Grab</th> <th>Matrix</th> <th>Time</th> <th>Time</th> <th>Time</th> <th>Time</th> <th>Time</th> <th>Time</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>MIT-APA12-EB-02</td> <td>W</td> <td>G</td> <td>8/15/24</td> <td>0900</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MIT-PZ-17</td> <td>W</td> <td>G</td> <td></td> <td>1050</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MIT-PZ-33</td> <td>W</td> <td>G</td> <td></td> <td>1400</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Customer Sample ID	Comp / Grab	Matrix	Time	Time	Time	Time	Time	Time	Time	MIT-APA12-EB-02	W	G	8/15/24	0900	5					MIT-PZ-17	W	G		1050	5					MIT-PZ-33	W	G		1400	5				
Customer Sample ID	Comp / Grab	Matrix	Time	Time	Time	Time	Time	Time	Time																																								
MIT-APA12-EB-02	W	G	8/15/24	0900	5																																												
MIT-PZ-17	W	G		1050	5																																												
MIT-PZ-33	W	G		1400	5																																												
Additional Instructions from Pace*: Task Code: MIT-CCR-ASSMT-202452 Collected By: Daniel Howard Signature: Daniel Howard Received By: Daniel Howard Signature: Daniel Howard Received By: Daniel Howard Signature: Daniel Howard Received By: Daniel Howard Signature: Daniel Howard																																																	
Customer Remarks / Special Conditions / Possible Hazards: Temperature (°C): Conductivity (µS/cm): Corrosion (pH): Gravimetric (g): Reading Number: 816124 0930 Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other Page: 17 of 17																																																	



DC# Title: ENV-FRM-HUNT-0003 V03_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

Project #

WO#: 92748124

Courier:

☐ Commercial☒ Fed Ex
☐ Pace☐ UPS☐ USPS☐ Other:☐ Client

92748124

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/ADate/Initials Person Examining Contents: SLD/DA

Packing Material:

☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer:

☐ IR Gun ID:

230

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC

(check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☒ Yes ☐ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☒ No ☐ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: <u>WG</u>			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

7778 687 1124

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748124

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples:

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

PM: BV

Due Date: 08/30/24

CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Client: Go Power Mitchell Profile/EZ (Circle one) 3142292 Notes

Temp	CC	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BPIN-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
BPIN-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)													
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)													
WGFL-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
D694-40 mL Amber NH4Cl (N/A)(Cl-)													
D63H-40 mL VOA HCl (N/A)													
V63T-40 mL VOA Na2S2O3 (N/A)													
V63U-40 mL VOA Unpreserved (N/A)													
D69V-40 mL VOA H3PO4 (N/A)													
KP7U-50 mL Plastic Unpreserved (N/A)													
V/GK (3 vials per kit) VPH/Ges kit (N/A)													
SPST-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)													
AG6U-100 mL Amber Unpreserved (N/A) (Cl-)													
V66U-20 mL Scintillation vials (N/A)													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

PM: BV Due Date: 08/30/24
CLIENT: 92-GP-MIT

ENV-FRM-CORQ-0019_v02_110123 ©

Pace
ANALYTICAL SERVICES

DC# Title: ENV-FRM-HUNT-0083 V05_Sample Condition upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition
Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92747803



92747803

Courier:
☐ Commercial

☒ Fed Ex
☐ Pace

☐ UPS

☐ USPS

☐ Client

☐ Other:

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents:

8/15/24
COM

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Biological Tissue Frozen?

☐ Yes

☐ No

☒ N/A

Thermometer:

☒ IR Gun ID:

0.83

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

24

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

23

USDA Regulated Soil (☐ N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☐ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

777869994551

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747803

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # PM: BV Due Date: 08/29/24
CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client: Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (98)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	V85T-40 mL VOA Na2S2O3 (N/A)	V85U-40 mL VOA Unpreserved (N/A)	DG8V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved (N/A) (Cl-)	V8GU-20 mL Scrutination vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

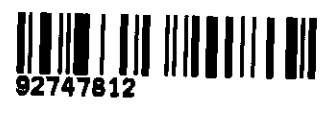
ENV-FRM-CORG-0019 v02 110123 ©

Pace ANALYTICAL SERVICES
DOC#_TITLE: ENV-FRM-HUNT-0083 V05_Sample Condition upon Receipt
Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt: ☒ Client Name: GA Power Project #: W0# : 92747812

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client: ☐



Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☒ IR Gun ID: 083 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 Correction Factor: -0.1 Add/Subtract (°C)

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.8

USDA Regulated Soil (☐ N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>			
Headspace in VOA Vials (>5.6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

777869909990

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747812

PM: BV

Due Date: 08/29/24

Project #

CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3S-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (C-)	WGU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber MHC (N/A) (C-)	DG8H-40 mL VOA HCl (N/A)	VG3U-40 mL VOA Na2SO3 (N/A)	VG3U-40 mL VOA Unpreserved (N/A)	DG8V-40 mL VOA H3PO4 (N/A)	KPTU-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG8U-100 mL Amber Unpreserved (N/A) (C-)	VG8U-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

Trace Analytical Charlotte
3500 Kliney Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

PM: BV Due Date: 08/29/24
CLIENT: 92-GP-MIT

Scan QR Code for instructions

[illegible]

Pace
LABORATORY SERVICES

DOC# Title: ENV-FRM-HUNT-0083 V05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐



Client Name:

Georgia Power

Project #:

WO#: 92747810



92747810

Courier:

☐ Commercial

☒ Fed Ex

☐ UPS

☐ USPS

☐ Client

☐ Pace

☐ Other:

Custody Seal Present?

☐ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents: *8/15/24*

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

-0.1

Cooler Temp Corrected (°C):

3.8

USDA Regulated Soil (☐ N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☐ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples field Filtered?	☐ Yes ☒ No ☐ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: <i>GW</i>			
Headspace in VOA Vials (>5.6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

777870004961

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747810

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # PM: BV

Due Date: 08/29/24

CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4E-125 mL Plastic 2N Acetate & NaOH (99)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFL-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG3U-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9U-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KPTU-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per WGVPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY Analytical Request Document Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

Place* Location Requested (City/State):
 Pace Analytical Charities
 5800 Kinsey Ave. Suite 300, Huntersville, NC 28078

Company Name: Georgia Power- Mitchell
 Street Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
 Phone #: 404.524.1234
 E-Mail: jahrenham@southernco.com
 Cx E-Mail: Rhonda.Quinn@wsp.com
 Customer Project #: MIT-ASH POND'S A-1 and 2 (APAL2) DETECTION MONITORING WELL NETWORK
 Project Name: MIT-ASH POND'S A-1 and 2 (APAL2) DETECTION MONITORING WELL NETWORK
 Site Collection Info/Facility ID (as applicable):

Contact/Report To: Jojo Abraham
 Phone #: 404.524.1234
 E-Mail: jahrenham@southernco.com
 Cx E-Mail: Rhonda.Quinn@wsp.com
 Invoice To: Account Payable
 Invoice E-Mail: georgiapowermitchell@southernco.com
 Purchase Order # (if applicable): GPC82474-0069
 Quote #:

County / State origin of sample(s): Georgia
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable () Yes () No
 Rush (Pre-approval required):
 () Same Day () 1 Day () 2 Day () 3 Day () Other
 Date Results Requested:
 () Level II () Level III () Level IV
 () EQUUS
 () Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Solid (SS), Oil (OL), Vape (VP), Tissue (TS), Residue (R), Vapor (V), Surface Water (SW), Sediment (SD), Sludge (SL), Caulk (CA), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	Collected or Composite	Bid	#	Results	Units
MIT-PZ-16	WG	G	8/14/24	10:35	5				
MIT-PZ-14	WG	G	12:10	5					
MIT-PZ-18	WG	G	15:00	5					
MIT-APA12-FD-01	WG	G							

Additional Instructions from Pace*:
 Task Code: MIT-CCR-ASGWT-202452

Collected By: (Printed Name) Daniel Howard
 Signature: Daniel Howard
 Date/Time: 8/14/24/1715
 Received by/Company: (Signature) Daniel Howard
 Date/Time: 8/14/24/1715
 Received by/Company: (Signature) Daniel Howard
 Date/Time: 8/14/24/1715
 Received by/Company: (Signature) Daniel Howard
 Date/Time: 8/14/24/1715

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

Specify Container Size **
 2 3 13 1
 Identify Container Preservative Type***
 1 1 2 2
 Analysis Requested
 2540C Total Dissolved Solids
 300-CL SD4 F
 App III/IV Metals
 RAD 226/228
 Proj. Mgr: Bonnie Vang
 Acctnum / Client ID:
 Table #: 16601
 Profile / Template:
 Prelog / Bottle Ord. ID:
 EZ 3142302
 Sample Comment
 Preservation non-conformance identified for sample:
 Customer Remarks / Special Conditions / Possible Hazards:
 # Coolers: Thermometer ID: Correction Factor (°C): Dth. Temp. (°C) On Ice:
 Tracking Number:
 Delivered by: () In-Person () Courier
 () FedEx () UPS () Other
 Page: 17 of 17
 ENV-FRM-CORQ-0019_V02_110123 ©

Pace
ANALYTICAL SERVICES

DOC#_TITLE: ENV-FRM-HUNT-0083 V05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐



Client Name:

Georgia Power

Project #

WO#: 92747808

Courier:
☐ Commercial

☐ Fed Ex
☒ Pace

☐ UPS

☐ USPS
☐ Other:

☐ Client

PM: BV

Due Date: 08/29/24

CLIENT: 92-GP-MIT

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents: *8/15/24 CMH*

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

3.2

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.1

USDA Regulated Soil (☐ N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-Gmm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

777869900570

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747808



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3H-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGRU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KF7U-50 mL Plastic Unpreserved (N/A)	V/6K (3 vials per kit)-VPH/Gas kit (N/A)	SP2T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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1		1	1																									
2		1	1																									
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO#: 92747808

PM: BV Due Date: 08/29/24
CLIENT: 92-GP-MIT

Scan QR Code for instructions

CHAIN-OF-CUSTODY Analytical Request Document									
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields									
Company Name: Georgia Power - Mitchell Street Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308		Contact/Report for: Jojo Abraham Phone #: E-Mail: j.abraham@southernco.com Cx E-Mail: <i>khosla.rajna@wsp.com</i>		Project Name: MIT-ASH POND A.1 and 2 (APAL2) DETECTION MONITORING WELL NETWORK Site Collection Info/Activity ID (as applicable):		Invoice To: Account Payable Invoice E-Mail: georgiapowerinvoices@southernco.com Purchase Order # (if applicable): GPC81474-0009		Quote #: County / State origin of sample(s): Georgia	
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET Date Collected:		Regulatory Program IDW, ACBA, etc. (as applicable): Reportable [] Yes [] No Field Filtered (if applicable): [] Yes [] No Analysis:		Field Filtered (if applicable): [] Yes [] No Analysis:		Field Filtered (if applicable): [] Yes [] No Analysis:		Field Filtered (if applicable): [] Yes [] No Analysis:	
Customer Sample ID		Matrix *		Comp / Grab		Collected or Composite End		Max. Chlorine	
MIT-APAL2-FB-02		WAS		G		8/14/24 1155		5	
MIT-PZ-19		WAS		G		8/14/24 1302		5	
MIT-PZ-15		WAS		G		8/14/24 1454		5	
MIT-PZ-16		WAT							
MIT-PZ-16		WAT							
MIT-PZ-17		WAT							
MIT-PZ-18		WAT							
MIT-PZ-19		WAT							
MIT-PZ-20		WAT							
MIT-PZ-21		WAT							
MIT-PZ-22		WAT							
MIT-PZ-23		WAT							
MIT-PZ-24		WAT							
MIT-PZ-25		WAT							
Additional Instructions from Pace*: Task Code: MIT-COR-ASSMT-202552									
Collected By (Printed Name): Daniel Howard Signature: <i>Daniel Howard</i>		Received By (Printed Name): Daniel Howard Signature: <i>Daniel Howard</i>		Received By (Printed Name): Daniel Howard Signature: <i>Daniel Howard</i>		Received By (Printed Name): Daniel Howard Signature: <i>Daniel Howard</i>		Received By (Printed Name): Daniel Howard Signature: <i>Daniel Howard</i>	
Date/Time: 8/14/24/1725 Date/Time:		Date/Time: 8/15/24 0940 Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:	
Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:	
Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:		Received by (Company): WSP Signature:	



September 11, 2024

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1, AP-2-RADS
Pace Project No.: 92748122

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 15, 2024 and August 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748122001	MIT-APA12-EB-02	Water	08/15/24 09:00	08/16/24 09:30
92748122002	MIT-PZ-17	Water	08/15/24 10:50	08/16/24 09:30
92748122003	MIT-PZ-33	Water	08/15/24 14:00	08/16/24 09:30
92748125001	MIT-PZ-57	Water	08/15/24 11:15	08/16/24 09:30
92748125002	MIT-APA12-FD-02	Water	08/15/24 00:00	08/16/24 09:30
92748125003	MIT-PZ-7D	Water	08/15/24 13:44	08/16/24 09:30
92747805001	MIT-APA12-FB-01	Water	08/13/24 10:35	08/15/24 09:50
92747805002	MIT-PZ-2D	Water	08/13/24 12:24	08/15/24 09:50
92747805003	MIT-PZ-32	Water	08/13/24 14:29	08/15/24 09:50
92747805004	MIT-PZ-25	Water	08/13/24 16:00	08/15/24 09:50
92747814001	MIT-PZ-1D	Water	08/13/24 13:55	08/15/24 09:40
92747814002	MIT-PZ-31	Water	08/13/24 15:35	08/15/24 09:40
92747814003	MIT-APA12-EB-01	Water	08/14/24 08:45	08/15/24 09:40
92747814004	MIT-PZ-23A	Water	08/14/24 11:02	08/15/24 09:40
92747811001	MIT-PZ-16	Water	08/14/24 10:35	08/15/24 09:40
92747811002	MIT-PZ-14	Water	08/14/24 12:10	08/15/24 09:40
92747811003	MIT-PZ-18	Water	08/14/24 15:00	08/15/24 09:40
92747811004	MIT-APA12-FD-01	Water	08/14/24 00:00	08/15/24 09:40
92747809001	MIT-APA12-FB-02	Water	08/14/24 11:15	08/15/24 09:40
92747809002	MIT-PZ-19	Water	08/14/24 13:02	08/15/24 09:40
92747809003	MIT-PZ-15	Water	08/14/24 14:54	08/15/24 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92748122001	MIT-APA12-EB-02	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92748122002	MIT-PZ-17	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92748122003	MIT-PZ-33	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92748125001	MIT-PZ-57	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748125002	MIT-APA12-FD-02	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748125003	MIT-PZ-7D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747805001	MIT-APA12-FB-01	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747805002	MIT-PZ-2D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747805003	MIT-PZ-32	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747805004	MIT-PZ-25	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747814001	MIT-PZ-1D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747814002	MIT-PZ-31	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747814003	MIT-APA12-EB-01	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92747814004	MIT-PZ-23A	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92747811001	MIT-PZ-16	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747811002	MIT-PZ-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92747811003	MIT-PZ-18	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92747811004	MIT-APA12-FD-01	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747809001	MIT-APA12-FB-02	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92747809002	MIT-PZ-19	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92747809003	MIT-PZ-15	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748122001	MIT-APA12-EB-02					
EPA 9315	Radium-226	0.187U ± 0.284 (0.627) C:92% T:NA	pCi/L		09/04/24 10:47	
EPA 9320	Radium-228	0.155U ± 0.351 (0.778) C:81% T:88%	pCi/L		09/09/24 12:45	
Total Radium Calculation	Total Radium	0.342U ± 0.635 (1.41)	pCi/L		09/10/24 15:41	
92748122002	MIT-PZ-17					
EPA 9315	Radium-226	0.237U ± 0.211 (0.412) C:83% T:NA	pCi/L		09/09/24 08:13	
EPA 9320	Radium-228	0.609U ± 0.434 (0.848) C:78% T:86%	pCi/L		09/09/24 12:45	
Total Radium Calculation	Total Radium	0.846U ± 0.645 (1.26)	pCi/L		09/10/24 15:41	
92748122003	MIT-PZ-33					
EPA 9315	Radium-226	0.170U ± 0.152 (0.277) C:81% T:NA	pCi/L		09/09/24 08:13	
EPA 9320	Radium-228	0.217U ± 0.293 (0.625) C:81% T:89%	pCi/L		09/09/24 12:45	
Total Radium Calculation	Total Radium	0.387U ± 0.445 (0.902)	pCi/L		09/10/24 15:41	
92748125001	MIT-PZ-57					
EPA 9315	Radium-226	0.322U ± 0.203 (0.323) C:83% T:NA	pCi/L		09/09/24 08:13	
EPA 9320	Radium-228	0.478U ± 0.340 (0.646) C:79% T:81%	pCi/L		09/04/24 12:22	
Total Radium Calculation	Total Radium	0.800U ± 0.543 (0.969)	pCi/L		09/09/24 16:54	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748125002	MIT-APA12-FD-02					
EPA 9315	Radium-226	0.381 ± 0.211 (0.318) C:88% T:NA	pCi/L		09/09/24 08:14	
EPA 9320	Radium-228	0.141U ± 0.256 (0.561) C:83% T:92%	pCi/L		09/04/24 12:22	
Total Radium Calculation	Total Radium	0.522U ± 0.467 (0.879)	pCi/L		09/09/24 16:54	
92748125003	MIT-PZ-7D					
EPA 9315	Radium-226	-0.116U ± 0.109 (0.383) C:80% T:NA	pCi/L		09/09/24 08:14	
EPA 9320	Radium-228	0.591U ± 0.356 (0.653) C:79% T:88%	pCi/L		09/04/24 12:22	
Total Radium Calculation	Total Radium	0.591U ± 0.465 (1.04)	pCi/L		09/09/24 16:54	
92747805001	MIT-APA12-FB-01					
EPA 9315	Radium-226	-0.0584U ± 0.175 (0.513) C:94% T:NA	pCi/L		09/04/24 09:56	
EPA 9320	Radium-228	0.469U ± 0.369 (0.732) C:84% T:90%	pCi/L		08/28/24 15:40	
Total Radium Calculation	Total Radium	0.469U ± 0.544 (1.25)	pCi/L		09/05/24 15:39	
92747805002	MIT-PZ-2D					
EPA 9315	Radium-226	0.114U ± 0.217 (0.499) C:94% T:NA	pCi/L		09/04/24 09:55	
EPA 9320	Radium-228	0.0454U ± 0.341 (0.781) C:85% T:85%	pCi/L		08/28/24 15:40	
Total Radium Calculation	Total Radium	0.159U ± 0.558 (1.28)	pCi/L		09/05/24 15:39	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747805003	MIT-PZ-32					
EPA 9315	Radium-226	0.228U ± 0.290 (0.625) C:94% T:NA	pCi/L		09/04/24 10:47	
EPA 9320	Radium-228	0.166U ± 0.375 (0.830) C:80% T:86%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.394U ± 0.665 (1.46)	pCi/L		09/05/24 15:39	
92747805004	MIT-PZ-25					
EPA 9315	Radium-226	0.344U ± 0.245 (0.382) C:84% T:NA	pCi/L		09/04/24 10:47	
EPA 9320	Radium-228	0.474U ± 0.391 (0.786) C:85% T:87%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.818U ± 0.636 (1.17)	pCi/L		09/05/24 15:39	
92747814001	MIT-PZ-1D					
EPA 9315	Radium-226	-0.102U ± 0.125 (0.474) C:92% T:NA	pCi/L		09/04/24 09:54	
EPA 9320	Radium-228	-0.137U ± 0.316 (0.769) C:82% T:85%	pCi/L		08/28/24 15:42	
Total Radium Calculation	Total Radium	0.000U ± 0.441 (1.24)	pCi/L		09/05/24 15:39	
92747814002	MIT-PZ-31					
EPA 9315	Radium-226	-0.112U ± 0.139 (0.485) C:88% T:NA	pCi/L		09/04/24 10:46	
EPA 9320	Radium-228	0.334U ± 0.334 (0.683) C:83% T:85%	pCi/L		08/28/24 15:43	
Total Radium Calculation	Total Radium	0.334U ± 0.473 (1.17)	pCi/L		09/05/24 15:39	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747814003	MIT-APA12-EB-01					
EPA 9315	Radium-226	0.115U ± 0.244 (0.568) C:91% T:NA	pCi/L		09/04/24 10:47	
EPA 9320	Radium-228	0.620U ± 0.364 (0.660) C:83% T:91%	pCi/L		08/28/24 15:43	
Total Radium Calculation	Total Radium	0.735U ± 0.608 (1.23)	pCi/L		09/05/24 15:39	
92747814004	MIT-PZ-23A					
EPA 9315	Radium-226	0.321U ± 0.287 (0.554) C:86% T:NA	pCi/L		09/04/24 10:47	
EPA 9320	Radium-228	0.825 ± 0.398 (0.680) C:86% T:88%	pCi/L		08/28/24 15:43	
Total Radium Calculation	Total Radium	1.15U ± 0.685 (1.23)	pCi/L		09/05/24 15:39	
92747811001	MIT-PZ-16					
EPA 9315	Radium-226	0.198U ± 0.331 (0.745) C:83% T:NA	pCi/L		09/04/24 09:55	
EPA 9320	Radium-228	0.739 ± 0.369 (0.643) C:88% T:92%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.937U ± 0.700 (1.39)	pCi/L		09/05/24 15:39	
92747811002	MIT-PZ-14					
EPA 9315	Radium-226	-0.0539U ± 0.150 (0.463) C:90% T:NA	pCi/L		09/04/24 13:21	
EPA 9320	Radium-228	0.0710U ± 0.349 (0.796) C:82% T:80%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.0710U ± 0.499 (1.26)	pCi/L		09/05/24 15:39	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747811003	MIT-PZ-18					
EPA 9315	Radium-226	0.0388U ± 0.332 (0.830) C:76% T:NA	pCi/L		09/04/24 09:55	
EPA 9320	Radium-228	0.326U ± 0.336 (0.694) C:84% T:83%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.365U ± 0.668 (1.52)	pCi/L		09/05/24 15:39	
92747811004	MIT-APA12-FD-01					
EPA 9315	Radium-226	0.162U ± 0.295 (0.673) C:80% T:NA	pCi/L		09/04/24 09:54	
EPA 9320	Radium-228	0.640U ± 0.383 (0.706) C:83% T:85%	pCi/L		08/28/24 15:41	
Total Radium Calculation	Total Radium	0.802U ± 0.678 (1.38)	pCi/L		09/05/24 15:39	
92747809001	MIT-APA12-FB-02					
EPA 9315	Radium-226	-0.00121U ± 0.232 (0.610) C:88% T:NA	pCi/L		09/04/24 09:56	
EPA 9320	Radium-228	-0.0116U ± 0.345 (0.805) C:82% T:84%	pCi/L		08/28/24 15:40	
Total Radium Calculation	Total Radium	0.000U ± 0.577 (1.42)	pCi/L		09/05/24 15:39	
92747809002	MIT-PZ-19					
EPA 9315	Radium-226	0.222U ± 0.318 (0.698) C:77% T:NA	pCi/L		09/04/24 09:56	
EPA 9320	Radium-228	0.462U ± 0.372 (0.744) C:85% T:87%	pCi/L		08/28/24 15:40	
Total Radium Calculation	Total Radium	0.684U ± 0.690 (1.44)	pCi/L		09/05/24 15:39	

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SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747809003	MIT-PZ-15					
EPA 9315	Radium-226	0.299U ± 0.267 (0.503) C:82% T:NA	pCi/L		09/04/24 09:56	
EPA 9320	Radium-228	0.448U ± 0.391 (0.795) C:87% T:86%	pCi/L		08/28/24 15:40	
Total Radium Calculation	Total Radium	0.747U ± 0.658 (1.30)	pCi/L		09/05/24 15:39	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-EB-02 Lab ID: 92748122001 Collected: 08/15/24 09:00 Received: 08/16/24 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.187U ± 0.284 (0.627) C:92% T:NA	pCi/L	09/04/24 10:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.155U ± 0.351 (0.778) C:81% T:88%	pCi/L	09/09/24 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.342U ± 0.635 (1.41)	pCi/L	09/10/24 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-17		Lab ID: 92748122002	Collected: 08/15/24 10:50	Received: 08/16/24 09:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	0.237U ± 0.211 (0.412) C:83% T:NA		pCi/L	09/09/24 08:13	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.609U ± 0.434 (0.848) C:78% T:86%		pCi/L	09/09/24 12:45	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.846U ± 0.645 (1.26)		pCi/L	09/10/24 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-33

Lab ID: 92748122003

Collected: 08/15/24 14:00

Received: 08/16/24 09:30

Matrix: Water

PWS:

Site ID:

Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.170U ± 0.152 (0.277) C:81% T:NA	pCi/L	09/09/24 08:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.217U ± 0.293 (0.625) C:81% T:89%	pCi/L	09/09/24 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.387U ± 0.445 (0.902)	pCi/L	09/10/24 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-57		Lab ID: 92748125001	Collected: 08/15/24 11:15	Received: 08/16/24 09:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	0.322U ± 0.203 (0.323) C:83% T:NA		pCi/L	09/09/24 08:13	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.478U ± 0.340 (0.646) C:79% T:81%		pCi/L	09/04/24 12:22	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.800U ± 0.543 (0.969)		pCi/L	09/09/24 16:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-FD-02		Lab ID: 92748125002	Collected: 08/15/24 00:00	Received: 08/16/24 09:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/09/24 08:14	13982-63-3	
	EPA 9315	0.381 ± 0.211 (0.318) C:88% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	09/04/24 12:22	15262-20-1	
	EPA 9320	0.141U ± 0.256 (0.561) C:83% T:92%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/09/24 16:54	7440-14-4	
	Total Radium Calculation	0.522U ± 0.467 (0.879)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-7D		Lab ID: 92748125003	Collected: 08/15/24 13:44	Received: 08/16/24 09:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	-0.116U ± 0.109 (0.383) C:80% T:NA		pCi/L	09/09/24 08:14	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.591U ± 0.356 (0.653) C:79% T:88%		pCi/L	09/04/24 12:22	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.591U ± 0.465 (1.04)		pCi/L	09/09/24 16:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-FB-01		Lab ID: 92747805001	Collected: 08/13/24 10:35	Received: 08/15/24 09:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 09:56	13982-63-3	
	EPA 9315	-0.0584U ± 0.175 (0.513) C:94% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:40	15262-20-1	
	EPA 9320	0.469U ± 0.369 (0.732) C:84% T:90%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.469U ± 0.544 (1.25)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-2D		Lab ID: 92747805002	Collected: 08/13/24 12:24	Received: 08/15/24 09:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.114U ± 0.217 (0.499) C:94% T:NA		pCi/L	09/04/24 09:55	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.0454U ± 0.341 (0.781) C:85% T:85%		pCi/L	08/28/24 15:40	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.159U ± 0.558 (1.28)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-32		Lab ID: 92747805003	Collected: 08/13/24 14:29	Received: 08/15/24 09:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 10:47	13982-63-3	
	EPA 9315	0.228U ± 0.290 (0.625) C:94% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:41	15262-20-1	
	EPA 9320	0.166U ± 0.375 (0.830) C:80% T:86%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.394U ± 0.665 (1.46)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-25		Lab ID: 92747805004	Collected: 08/13/24 16:00	Received: 08/15/24 09:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 10:47	13982-63-3	
	EPA 9315	0.344U ± 0.245 (0.382) C:84% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:41	15262-20-1	
	EPA 9320	0.474U ± 0.391 (0.786) C:85% T:87%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.818U ± 0.636 (1.17)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-1D		Lab ID: 92747814001	Collected: 08/13/24 13:55	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	-0.102U ± 0.125 (0.474) C:92% T:NA		pCi/L	09/04/24 09:54	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	-0.137U ± 0.316 (0.769) C:82% T:85%		pCi/L	08/28/24 15:42	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.000U ± 0.441 (1.24)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-31		Lab ID: 92747814002	Collected: 08/13/24 15:35	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	-0.112U ± 0.139 (0.485) C:88% T:NA		pCi/L	09/04/24 10:46	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.334U ± 0.334 (0.683) C:83% T:85%		pCi/L	08/28/24 15:43	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.334U ± 0.473 (1.17)		pCi/L	09/05/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-EB-01		Lab ID: 92747814003	Collected: 08/14/24 08:45	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.115U ± 0.244 (0.568) C:91% T:NA		pCi/L	09/04/24 10:47	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.620U ± 0.364 (0.660) C:83% T:91%		pCi/L	08/28/24 15:43	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.735U ± 0.608 (1.23)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-23A		Lab ID: 92747814004	Collected: 08/14/24 11:02	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	0.321U ± 0.287 (0.554) C:86% T:NA		pCi/L	09/04/24 10:47	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.825 ± 0.398 (0.680) C:86% T:88%		pCi/L	08/28/24 15:43	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.15U ± 0.685 (1.23)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-16		Lab ID: 92747811001	Collected: 08/14/24 10:35	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	0.198U ± 0.331 (0.745) C:83% T:NA		pCi/L	09/04/24 09:55	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.739 ± 0.369 (0.643) C:88% T:92%		pCi/L	08/28/24 15:41	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.937U ± 0.700 (1.39)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-14		Lab ID: 92747811002	Collected: 08/14/24 12:10	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 13:21	13982-63-3	
	EPA 9315	-0.0539U ± 0.150 (0.463) C:90% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:41	15262-20-1	
	EPA 9320	0.0710U ± 0.349 (0.796) C:82% T:80%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.0710U ± 0.499 (1.26)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-18		Lab ID: 92747811003	Collected: 08/14/24 15:00	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 9315	0.0388U ± 0.332 (0.830) C:76% T:NA		pCi/L	09/04/24 09:55	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 9320	0.326U ± 0.336 (0.694) C:84% T:83%		pCi/L	08/28/24 15:41	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.365U ± 0.668 (1.52)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-FD-01		Lab ID: 92747811004	Collected: 08/14/24 00:00	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.162U ± 0.295 (0.673) C:80% T:NA		pCi/L	09/04/24 09:54	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.640U ± 0.383 (0.706) C:83% T:85%		pCi/L	08/28/24 15:41	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.802U ± 0.678 (1.38)		pCi/L	09/05/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-APA12-FB-02		Lab ID: 92747809001	Collected: 08/14/24 11:15	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 09:56	13982-63-3	
	EPA 9315	-0.00121U ± 0.232 (0.610) C:88% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:40	15262-20-1	
	EPA 9320	-0.0116U ± 0.345 (0.805) C:82% T:84%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.000U ± 0.577 (1.42)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-19		Lab ID: 92747809002	Collected: 08/14/24 13:02	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 09:56	13982-63-3	
	EPA 9315	0.222U ± 0.318 (0.698) C:77% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:40	15262-20-1	
	EPA 9320	0.462U ± 0.372 (0.744) C:85% T:87%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.684U ± 0.690 (1.44)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Sample: MIT-PZ-15		Lab ID: 92747809003	Collected: 08/14/24 14:54	Received: 08/15/24 09:40	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/04/24 09:56	13982-63-3	
	EPA 9315	0.299U ± 0.267 (0.503) C:82% T:NA					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/28/24 15:40	15262-20-1	
	EPA 9320	0.448U ± 0.391 (0.795) C:87% T:86%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	09/05/24 15:39	7440-14-4	
	Total Radium Calculation	0.747U ± 0.658 (1.30)					

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

QC Batch: 690931

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92748122002, 92748122003, 92748125001, 92748125002, 92748125003

METHOD BLANK: 3364353

Matrix: Water

Associated Lab Samples: 92748122002, 92748122003, 92748125001, 92748125002, 92748125003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0717 ± 0.0872 (0.304) C:96% T:NA	pCi/L	09/09/24 08:13	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

QC Batch:	690810	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92747805001, 92747805002, 92747805003, 92747805004, 92747809001, 92747809002, 92747809003, 92747811001, 92747811002, 92747811003, 92747811004, 92747814001, 92747814002, 92747814003, 92747814004		

METHOD BLANK:	3363812	Matrix:	Water
Associated Lab Samples:	92747805001, 92747805002, 92747805003, 92747805004, 92747809001, 92747809002, 92747809003, 92747811001, 92747811002, 92747811003, 92747811004, 92747814001, 92747814002, 92747814003, 92747814004		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.480 ± 0.328 (0.623) C:86% T:90%	pCi/L	08/28/24 15:37	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

QC Batch:	691959	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92748125001, 92748125002, 92748125003		

METHOD BLANK: 3369427 Matrix: Water

Associated Lab Samples: 92748125001, 92748125002, 92748125003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.214 ± 0.291 (0.622) C:81% T:87%	pCi/L	09/04/24 12:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

QC Batch:	690811	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92748122001, 92748122002, 92748122003		

METHOD BLANK: 3363813 Matrix: Water

Associated Lab Samples: 92748122001, 92748122002, 92748122003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.149 ± 0.285 (0.702) C:89% T:85%	pCi/L	09/09/24 12:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

QC Batch:	690694	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92747805001, 92747805002, 92747805003, 92747805004, 92747809001, 92747809002, 92747809003, 92747811001, 92747811002, 92747811003, 92747811004, 92747814001, 92747814002, 92747814003, 92747814004, 92748122001		

METHOD BLANK:	3363058	Matrix:	Water
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Associated Lab Samples: 92747805001, 92747805002, 92747805003, 92747805004, 92747809001, 92747809002, 92747809003, 92747811001, 92747811002, 92747811003, 92747811004, 92747814001, 92747814002, 92747814003, 92747814004, 92748122001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.108 ± 0.233 (0.544) C:90% T:NA	pCi/L	09/04/24 09:53	

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QUALIFIERS

Project: Mitchell AP-A, AP-1, AP-2-RADS
Pace Project No.: 92748122

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747805001	MIT-APA12-FB-01	EPA 9315	690694		
92747805002	MIT-PZ-2D	EPA 9315	690694		
92747805003	MIT-PZ-32	EPA 9315	690694		
92747805004	MIT-PZ-25	EPA 9315	690694		
92747809001	MIT-APA12-FB-02	EPA 9315	690694		
92747809002	MIT-PZ-19	EPA 9315	690694		
92747809003	MIT-PZ-15	EPA 9315	690694		
92747811001	MIT-PZ-16	EPA 9315	690694		
92747811002	MIT-PZ-14	EPA 9315	690694		
92747811003	MIT-PZ-18	EPA 9315	690694		
92747811004	MIT-APA12-FD-01	EPA 9315	690694		
92747814001	MIT-PZ-1D	EPA 9315	690694		
92747814002	MIT-PZ-31	EPA 9315	690694		
92747814003	MIT-APA12-EB-01	EPA 9315	690694		
92747814004	MIT-PZ-23A	EPA 9315	690694		
92748122001	MIT-APA12-EB-02	EPA 9315	690694		
92748122002	MIT-PZ-17	EPA 9315	690931		
92748122003	MIT-PZ-33	EPA 9315	690931		
92748125001	MIT-PZ-57	EPA 9315	690931		
92748125002	MIT-APA12-FD-02	EPA 9315	690931		
92748125003	MIT-PZ-7D	EPA 9315	690931		
92747805001	MIT-APA12-FB-01	EPA 9320	690810		
92747805002	MIT-PZ-2D	EPA 9320	690810		
92747805003	MIT-PZ-32	EPA 9320	690810		
92747805004	MIT-PZ-25	EPA 9320	690810		
92747809001	MIT-APA12-FB-02	EPA 9320	690810		
92747809002	MIT-PZ-19	EPA 9320	690810		
92747809003	MIT-PZ-15	EPA 9320	690810		
92747811001	MIT-PZ-16	EPA 9320	690810		
92747811002	MIT-PZ-14	EPA 9320	690810		
92747811003	MIT-PZ-18	EPA 9320	690810		
92747811004	MIT-APA12-FD-01	EPA 9320	690810		
92747814001	MIT-PZ-1D	EPA 9320	690810		
92747814002	MIT-PZ-31	EPA 9320	690810		
92747814003	MIT-APA12-EB-01	EPA 9320	690810		
92747814004	MIT-PZ-23A	EPA 9320	690810		
92748122001	MIT-APA12-EB-02	EPA 9320	690811		
92748122002	MIT-PZ-17	EPA 9320	690811		
92748122003	MIT-PZ-33	EPA 9320	690811		
92748125001	MIT-PZ-57	EPA 9320	691959		
92748125002	MIT-APA12-FD-02	EPA 9320	691959		
92748125003	MIT-PZ-7D	EPA 9320	691959		
92747805001	MIT-APA12-FB-01	Total Radium Calculation	694073		
92747805002	MIT-PZ-2D	Total Radium Calculation	694073		
92747805003	MIT-PZ-32	Total Radium Calculation	694073		
92747805004	MIT-PZ-25	Total Radium Calculation	694073		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2-RADS

Pace Project No.: 92748122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747809001	MIT-APA12-FB-02	Total Radium Calculation	694073		
92747809002	MIT-PZ-19	Total Radium Calculation	694073		
92747809003	MIT-PZ-15	Total Radium Calculation	694073		
92747811001	MIT-PZ-16	Total Radium Calculation	694073		
92747811002	MIT-PZ-14	Total Radium Calculation	694073		
92747811003	MIT-PZ-18	Total Radium Calculation	694073		
92747811004	MIT-APA12-FD-01	Total Radium Calculation	694073		
92747814001	MIT-PZ-1D	Total Radium Calculation	694073		
92747814002	MIT-PZ-31	Total Radium Calculation	694073		
92747814003	MIT-APA12-EB-01	Total Radium Calculation	694073		
92747814004	MIT-PZ-23A	Total Radium Calculation	694073		
92748122001	MIT-APA12-EB-02	Total Radium Calculation	695062		
92748122002	MIT-PZ-17	Total Radium Calculation	695062		
92748122003	MIT-PZ-33	Total Radium Calculation	695062		
92748125001	MIT-PZ-57	Total Radium Calculation	694759		
92748125002	MIT-APA12-FD-02	Total Radium Calculation	694759		
92748125003	MIT-PZ-7D	Total Radium Calculation	694759		

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DC#_Title: ENV-FRM-HUNT-0063 V03_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Name:

Georgia Power - Mitchell

Project #:

WO#: 92748122



92748122

Courier:

☐ Commercial☒ Fed Ex☐ UPS☐ USPS☐ Client☐ Pace☐ Other:

Custody Seal Present?

☒ Yes☐ No

Seals Intact?

☒ Yes☐ No☐ N/A

Date/Initials Person Examining Contents: 5/16/24 DW

Packing Material:

☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☐ IR Gun ID:

230

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

3.8

Correction Factor:

Add/Subtract (°C)

0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.8

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☒ Yes ☐ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☒ No ☐ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: WQ W6			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

7778 6898 5109

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC# Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748122

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

PM: BV

Due Date: 09/09/24

CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client: GA Power-Mitchell Profile/EZ (Circle one) 3142242 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4S-125 mL Plastic 2N Acetate & NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG3H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9W-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	VJ6K (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)
CC	AS	GA		51	GA																				
1	1	1		2	1																				
2	1	1		2	1																				
3	1	1		2	1																				
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

[illegible]



DC#_Title: ENV-FRM-HUNT-0063 v03_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Name:

G A Power - Mitchell

Project #:

W0#: 92748125



92748125

Courier:

☐ Commercial☒ Fed Ex☐ UPS☐ USPS☐ Client☐ Pace☐ Other:

Custody Seal Present?

☒ Yes☐ No

Seals Intact?

☒ Yes☐ No☐ N/A

Date/Initials Person Examining Contents: 5/16/24 DW

Packing Material:

☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☐ IR Gun ID:

230

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☒ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	7.
Containers Intact?	☒ Yes	☐ No	☐ N/A	8.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☒ No	☐ N/A	9.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

77786871124

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC# Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748125

Project #

PM: BV

Due Date: 09/09/24

CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, L/Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client GA Power-Mitchell Profile/EZ (Circle one) 3142292 Notes

Client	Item#	CC	1	2	3	4	5	6	7	8	9	10	11	12
56789101112	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
1314151617181920	BP3U-250 mL Plastic Unpreserved (N/A)		1	1	1									
21222324252627282930	BP2U-500 mL Plastic Unpreserved (N/A)		1	1	1									
31323334353637383940	BP1U-1 liter Plastic Unpreserved (N/A)													
41424344454647484950	BPIN		2	2	2									
51525354555657585960	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
61626364656667686970	BP3N-250 mL plastic HNO3 (pH < 2)													
71727374757677787980	BP4Z-125 mL Plastic Zn Acetate & NaOH- (x9)													
81828384858687888990	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)													
919293949596979899100	WGFU-Wide-mouthed Glass Jar Unpreserved													
101102103104105106107108109110	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
111112113114115116117118119120	AG1H-1 liter Amber HCl (pH < 2)													
121122123124125126127128129130	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
131132133134135136137138139140	AG1S-1 liter Amber H2SO4 (pH < 2)													
141142143144145146147148149150	AG3S-250 mL Amber H2SO4 (pH < 2)													
151152153154155156157158159160	DG8H-40 mL Amber NH4Cl (N/A)(Cl-)													
161162163164165166167168169170	DG9H-40 mL VOA HCl (N/A)													
171172173174175176177178179180	VG9T-40 mL VOA Na2SO3 (N/A)													
181182183184185186187188189190	VG9U-40 mL VOA Unpreserved (N/A)													
191192193194195196197198199200	DG9V-40 mL VOA H3PO4 (N/A)													
201202203204205206207208209210	KPTU-50 mL Plastic Unpreserved (N/A)													
211212213214215216217218219220	V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
221222223224225226227228229230	SP5T-125 mL Sterile Plastic (N/A – lab)													
231232233234235236237238239240	SP2T-250 mL Sterile Plastic (N/A – lab)													
241242243244245246247248249250														
251252253254255256257258259260	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)													
261262263264265266267268269270	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)													
271272273274275276277278279280	VSGU-20 mL Scintillation vials (N/A)													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

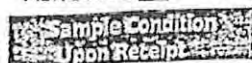
Pace
ANALYTICAL SERVICES

DOC#_Title: ENV-FRM-HUNT-0083 V05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mecklenburg ☒



Client Name:

Georgia Power

Project #:

WO#: 92747805



Courier:

☐ Commercial

☒ Fed Ex

☐ UPS

☐ USPS

☐ Client

☐ Pace

☐ Other:

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents: *9/15/24*
COH

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Biological Tissue Frozen?

☐ Yes

☐ No

☒ N/A

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

24

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

23

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	7.
Containers Intact?	☒ Yes	☐ No	☐ N/A	8.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	9.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

77786994551

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747805

Project #

PM: BV

Due Date: 09/06/24

CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	CC	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
BP3N-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic 2N Acetate & NaOH (pH > 9)													
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)													
WGFU-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
DG9H-40 mL Amber NH4Cl (N/A)(Cl-)													
DG9H-40 mL VOA HCl (N/A)													
VG9T-40 mL VOA Na2S2O3 (N/A)													
VG9U-40 mL VOA Unpreserved (N/A)													
DG9V-40 mL VOA H3PO4 (N/A)													
KP7U-50 mL Plastic Unpreserved (N/A)													
VJ/GK (3 vials per kit) VPW/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3R-250 mL Plastic (NH4)2SO4 (pH 3-9.7)													
AG0U-100 mL Amber Unpreserved (N/A) (Cl-)													
VSGU-20 mL Scintillation vials (N/A)													
DG9U-40 mL Amber Unpreserved vials (N/A)													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DU#_ Title: ENV-FRM-HUNT-0063 V05_Sample Condition upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Name:

BA Power

Project #:

WO#: 92747814

Courier:

☐ Commercial☐ Fed Ex☐ UPS☐ USPS☐ Client☐ Pace☐ Other:

Custody Seal Present?

☒ Yes☐ No

Seals Intact?

☒ Yes☐ No☐ N/A

Date/Initials Person Examining Contents:

Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☐ N/A

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.8

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	7.	
Containers Intact?	☒ Yes ☐ No ☐ N/A	8.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	9.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A		
-Includes Date/Time/ID/Analysis Matrix: W			
Headspace in VOA Vials (>5-Gmm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

777869909990

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747814

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

PM: BV

Due Date: 09/06/24

CLIENT: 92-GP-MIT

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Client	Item#	CC	1	2	3	4	5	6	7	8	9	10	11	12
	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
	BP3U-250 mL Plastic Unpreserved (N/A)		1	1	1	1	1							
	BP2U-500 mL Plastic Unpreserved (N/A)		1	1	1	1	1							
	BP1U-1 liter Plastic Unpreserved (N/A)													
	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)		2	2	2	2	2							
	BP3N-250 mL plastic HNO3 (pH < 2)		2	2	2	2	2							
	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)		2	2	2	2	2							
	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)													
	WGFU-Widemouthed Glass jar Unpreserved													
	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
	AG1H-1 liter Amber HCl (pH < 2)													
	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
	AG1S-1 liter Amber H2SO4 (pH < 2)													
	AG3S-250 mL Amber H2SO4 (pH < 2)													
	DG94-40 mL Amber NH4Cl (N/A) (Cl-)													
	DG9H-40 mL VOA HCl (N/A)													
	VG9T-40 mL VOA Na2S2O3 (N/A)													
	VG9U-40 mL VOA Unpreserved (N/A)													
	DG9V-40 mL VOA H3PO4 (N/A)													
	KPTU-50 mL Plastic Unpreserved (N/A)													
	V/GK (3 vials per kit) VP-H/Gas kit (N/A)													
	SP5T-125 mL Sterile plastic (N/A - lab)													
	SP2T-250 mL Sterile Plastic (N/A - lab)													
	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)													
	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)													
	VSGU-20 mL Scintillation vials (N/A)													
	DG9U-40 mL Amber Unpreserved vials (N/A)													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

PM: BV Due Date: 09/06/24
CLIENT: 92-GP-MIT

Chain-of-Custody Is a LEGAL DOCUMENT - Complete all relevant fields

Time Zone Collected:	AK	PT	MT	CT	ET	Country / State origin of sample(s):	Georgia
Data Deliverables:						Regulatory Program (DW, RCRA, etc.): as applicable: Reportable Yes No	
Level I						Rush (Pre-approval required):	
Level II						[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other: _____	
Level III						LWR P2000 or other WWR Permit # as applicable:	
Level IV							
Level V							
Level VI							
Level VII							
Level VIII							
Level IX							
Level X							
Level XI							
Level XII							
Level XIII							
Level XIV							
Level XV							
Level XVI							
Level XVII							
Level XVIII							
Level XIX							
Level XX							
Level XXI							
Level XXII							
Level XXIII							
Level XXIV							
Level XXV							
Level XXVI							
Level XXVII							
Level XXVIII							
Level XXIX							
Level XXX							
Level XXXI							
Level XXXII							
Level XXXIII							
Level XXXIV							
Level XXXV							
Level XXXVI							
Level XXXVII							
Level XXXVIII							
Level XXXIX							
Level XL							
Level XLI							
Level XLII							
Level XLIII							
Level XLIV							
Level XLV							
Level XLVI							
Level XLVII							
Level XLVIII							
Level XLIX							
Level L							
Level LI							
Level LII							
Level LIII							
Level LIV							
Level LV							
Level LVI							
Level LVII							
Level LVIII							
Level LVIX							
Level LX							
Level LXI							
Level LXII							
Level LXIII							
Level LXIV							
Level LXV							
Level LXVI							
Level LXVII							
Level LXVIII							
Level LXIX							
Level LXX							
Level LXXI							
Level LXXII							
Level LXXIII							
Level LXXIV							
Level LXXV							
Level LXXVI							
Level LXXVII							
Level LXXVIII							
Level LXXIX							
Level LXXX							
Level LXXXI							
Level LXXXII							
Level LXXXIII							
Level LXXXIV							
Level LXXXV							
Level LXXXVI							
Level LXXXVII							
Level LXXXVIII							
Level LXXXIX							
Level LXXXX							
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Level LXXXXII							
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Level LXXXXVI							
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Level LXXXXXI							
Level LXXXXXII							
Level LXXXXXIII							
Level LXXXXXIV							
Level LXXXXXV							
Level LXXXXXVI							
Level LXXXXXVII							
Level LXXXXXVIII							
Level LXXXXXIX							
Level LXXXXXX							
Level LXXXXXXI							
Level LXXXXXXII							
Level LXXXXXXIII							
Level LXXXXXXIV							
Level LXXXXXXV							
Level LXXXXXXVI							
Level LXXXXXXVII							
Level LXXXXXXVIII							
Level LXXXXXXIX							
Level LXXXXXXX							
Level LXXXXXXXI							
Level LXXXXXXXII							
Level LXXXXXXXIII							
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Level LXXXXXXXV							
Level LXXXXXXXVI							
Level LXXXXXXXVII							
Level LXXXXXXXVIII							
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Level LXXXXXXXI							
Level LXXXXXXXII							
Level LXXXXXXXIII							
Level LXXXXXXXIV							
Level LXXXXXXXV							
Level LXXXXXXXVI							
Level LXXXXXXXVII							
Level LXXXXXXXVIII							
Level LXXXXXXXIX							
Level LXXXXXXXI							
Level LXXXXXXXII							
Level LXXXXXXXIII							
Level LXXXXXXXIV							

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Date	Time	# Cont.	Res.	Chlorine Units
			Date	Time					
MIT-PZ-1D MIT-PZ-1D	WQ	G			8/13/24	1355	5		
MIT-PZ-31 MIT-PZ-31	WQ	G			8/13/24	1535	5		
MIT-APAI2-EB-01	WQ	G			8/14/24	0845	5		
MIT-PZ-23A	WQ	G			8/14/24	1102	5		

Additional Instructions from Face: Task Code: MITT-COI-ASMT-202452	Collected By: (Printed Name) Signature:	Daniel Howard Daniel Howard Received by Company: (Signature) Received by Company: (Signature)
Received by Company: (Signature) Received by Company: (Signature)	Date/TIME: Date/TIME: Date/TIME: Date/TIME:	3/14/24/1715 3/14/24/1715 3/14/24/1715 3/14/24/1715

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resources-1>

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Pace
PROTECTIVE SERVICES

LOG# TITLE: ENV-FRM-HUNT-0083 V05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐



Client Name:

Georgia Power

Project #:

WO#: 92747811



Courier:

☐ Commercial

☒ Fed Ex

☐ UPS

☐ USPS

☐ Client

☐ Pace

☐ Other:

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents: *8/15/24*

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

-0.1

Cooler Temp Corrected (°C):

3.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

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

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

		Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>GW</i>	
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

7778 7000 4861

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747811

Project #

PM: BV

Due Date: 09/06/24

CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (pH > 12) (Cl-)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit) VP-1/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1																												
2																												
3																												
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5																												
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11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

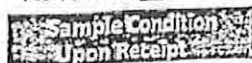
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

[illegible]

Pace
ENV-FRM-HUN-0083 V05_Sample Condition upon Receipt
Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐



Client Name:

Georgia Power

Project #:

WO#: 92747809



Courier:

☐ Commercial

☐ Fed Ex

☐ UPS

☐ USPS

☐ Client

☒ Pace

☐ Other:

Custody Seal Present?

☒ Yes

☐ No

Seals Intact?

☒ Yes

☐ No

☐ N/A

Date/Initials Person Examining Contents: *8/15/24 CM*

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Biological Tissue Frozen?

☐ Yes

☐ No

☒ N/A

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet

☐ Blue

☐ None

Cooler Temp:

3.2

Correction Factor:

Add/Subtract (°C)

-0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.4

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	7.
Containers Intact?	☒ Yes	☐ No	☐ N/A	8.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	9.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>			
Headspace in VOA Vials (>5-Gmm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

777869900570

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747809

Project #

PM: BV

Due Date: 09/06/24

CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	CC																											
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)																												
BP3U-250 mL Plastic Unpreserved (N/A)			1	1																								
BP2U-500 mL Plastic Unpreserved (N/A)			1	1																								
BP1U-1 liter Plastic Unpreserved (N/A)																												
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)			2	2																								
BP3N-250 mL plastic HNO3 (pH < 2)			1	1																								
BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)			1	1																								
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)																												
WGFU-Wide-mouthed Glass Jar Unpreserved																												
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)																												
AG1H-1 liter Amber HCl (pH < 2)																												
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)																												
AG1S-1 liter Amber H2SO4 (pH < 2)																												
AG3S-250 mL Amber H2SO4 (pH < 2)																												
D69H-40 mL Amber H4Cl (N/A)(Cl-)																												
D69H-40 mL VOA HCl (N/A)																												
V69T-40 mL VOA Na2S2O3 (N/A)																												
V69U-40 mL VOA Unpreserved (N/A)																												
D69V-40 mL VOA H3PO4 (N/A)																												
KP7U-50 mL Plastic Unpreserved (N/A)																												
V/GK (3 vials per kit) VPH/Gas kit (N/A)																												
SP5T-125 mL Sterile Plastic (N/A - lab)																												
SP2T-250 mL Sterile Plastic (N/A - lab)																												
BP3B-250 mL Plastic (N/A) (2504 (9.3-9.7))																												
AG0U-100 mL Amber Unpreserved (N/A) (Cl-)																												
VSGU-20 mL Scintillation vials (N/A)																												
DG8U-40 mL Amber Unpreserved vials (N/A)																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJS1
Date: 8/26/2024
Worklist: 80889
Matrix: WT

Method Blank Assessment	
MB Sample ID	3363812
MB concentration:	0.480
MB 2 Sigma CSU:	0.328
MB MDC:	0.623
MB Numerical Performance Indicator:	2.87
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	
LCSID0889	
Count Date:	8/28/2024
Spike I.D.:	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.492
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.815
Target Conc. (pCi/L, g, F):	4.353
Uncertainty (Calculated):	0.213
Result (pCi/L, g, F):	3.493
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.808
Numerical Performance Indicator:	-2.02
Percent Recovery:	80.23%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAC
8/29/24

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/3/2024
Worklist: 80879
Matrix: WT

Method Blank Assessment	
MB Sample ID	3363088
MB concentration:	0.108
MB 2 Sigma CSU:	0.233
MB MDC:	0.544
MB Numerical Performance Indicator:	0.91
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCS#	Y or N?
LCS#0879	Y
Count Date:	9/4/2024
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.509
Target Conc. (pCi/L, g, F):	4.914
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	5.088
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.042
Numerical Performance Indicator:	0.32
Percent Recovery:	103.55%
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	N/A
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS#0879
Duplicate Sample I.D.:	92747805004
Sample Result (pCi/L, g, F):	5.088
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.042
Sample Duplicate Result (pCi/L, g, F):	4.885
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.033
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.272
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.22%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/3/2024
Worklist: 80879
Matrix: WT

Method Blank Assessment	
MB Sample ID	3363088
MB concentration:	0.108
MB 2 Sigma CSU:	0.233
MB MDC:	0.544
MB Numerical Performance Indicator:	0.91
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS80879	LCS80879
Count Date:	9/4/2024
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.509
Target Conc. (pCi/L, g, F):	4.914
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	5.088
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.042
Numerical Performance Indicator:	0.32
Percent Recovery:	103.55%
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	N/A
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS80879
Duplicate Sample I.D.:	LCS80879
Sample Result (pCi/L, g, F):	5.088
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.042
Sample Duplicate Result (pCi/L, g, F):	4.885
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.033
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.272
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.22%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Matrix Spike Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/5/2024
Worklist: 80898
Matrix: W

Method Blank Assessment	
MB Sample ID	3364353
MB concentration:	-0.072
M/B 2 Sigma CSU:	0.087
MB MDC:	0.304
MB Numerical Performance Indicator:	-1.61
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS80898	LCS80898
Count Date:	9/9/2024
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.503
Target Conc. (pCi/L, g, F):	4.975
Uncertainty (Calculated):	0.234
Result (pCi/L, g, F):	4.550
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.885
Numerical Performance Indicator:	-0.91
Percent Recovery:	91.46%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS80898
Duplicate Sample I.D.:	92748210015
Sample Result (pCi/L, g, F):	4.550
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.885
Sample Duplicate Result (pCi/L, g, F):	5.549
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.062
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.417
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.86%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Sample 19/12/24

NRH
9-9-24



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 9/3/2024
Worklist: 80890
Matrix: WT

Method Blank Assessment	
MB Sample ID	3363813
MB concentration:	-0.149
MB 2 Sigma CSU:	0.285
MB MDC:	0.702
MB Numerical Performance Indicator:	-1.03
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD80890	LCSD80890
Decay Corrected Spike Concentration (pCi/mL):	Count Date:	9/9/2024
	Spike I.D.:	23-043
	Volume Used (mL):	35.354
	Aliquot Volume (L, g, F):	0.10
	Target Conc. (pCi/L, g, F):	0.819
	Uncertainty (Calculated):	4.318
	Result (pCi/L, g, F):	0.212
	LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	3.358
	Numerical Performance Indicator:	0.799
	Status vs Numerical Indicator:	-2.80
Percent Recovery:	77.76%	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	Pass	
Lower % Recovery Limits:	135%	
	60%	

Duplicate Sample Assessment	Sample I.D.:	LCSD80890
	Duplicate Sample I.D.:	LCSD80890
	Sample Result (pCi/L, g, F):	3.203
	Sample Duplicate Result (pCi/L, g, F):	0.761
	Sample Duplicate Result (pCi/L, g, F):	3.358
	Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.799
	Are sample and/or duplicate results below RL?	NO
	Duplicate Numerical Performance Indicator:	-0.275
	(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	5.01%
	Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/10/24

Sample Matrix Spike Control Assessment	Sample Collection Date:	
	Sample I.D.:	
	Sample MS I.D.:	
	Sample MSD I.D.:	
	Spike I.D.:	
	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
	Spike Volume Used in MS (mL):	
	Spike Volume Used in MSD (mL):	
	MS Aliquot (L, g, F):	
	MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.:	
	Sample MS I.D.:	
	Sample MSD I.D.:	
	Sample Matrix Spike Result:	
	Sample Matrix Spike Duplicate Result:	
	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
	Duplicate Numerical Performance Indicator:	
	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
	MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 8/30/2024
Worklist: 80991
Matrix: WT

Method Blank Assessment	
MB Sample ID	3369427
MB concentration:	0.214
M/B 2 Sigma CSU:	0.291
MB MDC:	0.622
MB Numerical Performance Indicator:	1.44
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS80991	Y
Count Date:	9/4/2024
Spike ID:	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.412
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.819
Target Conc. (pCi/L, g, F):	4.326
Uncertainty (Calculated):	0.212
Result (pCi/L, g, F):	3.814
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.875
Numerical Performance Indicator:	-1.11
Percent Recovery:	88.17%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample ID:	LCS80991
Duplicate Sample ID:	LCS80991
Sample Result (pCi/L, g, F):	3.985
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.906
Sample Duplicate Result (pCi/L, g, F):	3.814
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.875
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.266
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.24%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/5/24
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9/5/24

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample ID:		
Sample MS ID:		
Sample MSD ID:		
Spike ID:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	
Sample MS ID:	
Sample MSD ID:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/5/2024
Worklist: 80898
Matrix: W

Method Blank Assessment	
MB Sample ID	3364353
MB concentration:	-0.072
M/B 2 Sigma CSU:	0.087
MB MDC:	0.304
MB Numerical Performance Indicator:	-1.61
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS80898	LCS80898
Count Date:	9/9/2024
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.503
Target Conc. (pCi/L, g, F):	4.975
Uncertainty (Calculated):	0.234
Result (pCi/L, g, F):	4.550
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.885
Numerical Performance Indicator:	-0.91
Percent Recovery:	91.46%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS80898
Duplicate Sample I.D.:	92748210015
Sample Result (pCi/L, g, F):	4.550
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.885
Sample Duplicate Result (pCi/L, g, F):	5.549
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.062
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.417
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.86%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Sample 19/12/24

NPH
9-9-24



APPENDIX C

DATA QUALITY EVALUATION



Data Evaluation Narrative

Project: Plant Mitchell CCR Groundwater Semiannual Event #22

WSP Project Number: US-EI-6122160170.2404.****

Site: Ash Ponds 1&2 - Plant Mitchell, Georgia

Matrix: Groundwater

Pace SDG No: 92748119

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #22 (August 2024) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft Plant Mitchell Field Sampling Plan (FSP)* (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in United States Environmental Protection Agency (USEPA) Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. <i>SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.</i>
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.



<u>Qualifier</u>	<u>Unusable Data</u>
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in these SDGs are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in Table 1.

Deliverables

The data packages, as submitted to WSP USA Environment & Infrastructure Inc. (WSP), formerly Wood Environment & Infrastructure Solutions, Inc. (Wood) are complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW6010D, SW7470A, SM2540C, and EPA 300.0.0R2.1.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for Appendix III and Appendix IV metals (antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Methods SW6020B and SW6010D (calcium only), mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0.0R2.1, and total dissolved solids (TDS) by Method SM2540C. Anions and TDS were analyzed by Pace-Asheville, North Carolina. These data are reported in this SDG: 92748119.

Samples were also sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320. The radium data were reported in SDG 92748122 and validated separately.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

SDG 92748119:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	08/13/24	II	MIT-PZ-31	08/13/24	II
MIT-PZ-2D	08/13/24	II	MIT-PZ-32	08/13/24	II
MIT-PZ-7D	08/15/24	II	MIT-PZ-33	08/15/24	II
MIT-PZ-14	08/14/24	II	MIT-PZ-57	08/15/24	II
MIT-PZ-15	08/14/24	II	<u>QC Samples</u>		
MIT-PZ-16	08/14/24	II	MIT-APA12-EB-01	08/14/24	II
MIT-PZ-17	08/15/24	II	MIT-APA12-EB-02	08/15/24	II
MIT-PZ-18	08/14/24	II	MIT-APA12-FB-01	08/13/24	II
MIT-PZ-19	08/14/24	II	MIT-APA12-FB-02	08/14/24	II
MIT-PZ-23A	08/14/24	II	MIT-APA12-FD-01	08/14/24	II
MIT-PZ-25	08/13/24	II	MIT-APA12-FD-02	08/15/24	II

These samples were collected from Ash Ponds AP-A, AP-1 and AP-2 between August 13 and August 15, 2024. Sample MIT-APA12-FD-01 is a field duplicate of MIT-PZ-18, and MIT-APA12-FD-02 is a field duplicate of MIT-PZ-57. The field QC blanks include samples MIT-APA12-FB-01 and MIT-APA12-FB-02 (field blanks) and MIT-APA12-EB-01 and MIT-APA12-EB-02 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQUIS database as instructed by GPC by adding the sample type code (WG [groundwater] or WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20240814]); example: *MIT-PZ-14-WG-20240814*. The laboratory incorrectly transcribed the sample times for MIT-PZ-57 and MIT-PZ-FB-02, however they were corrected in the project database.

The analytical results for metals, mercury, anions, and TDS are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B and SW6010D)

The samples were submitted to Pace for CCR Appendix III and Appendix IV metals by Methods SW6010D and SW6020B. The CCR Appendix III metals for this event are boron (B) and calcium (Ca). The Appendix IV metals for this event are antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within laboratory QC limits except for the method and field blanks, and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One of the method blanks associated with the samples analyzed within this SDG contained a reportable concentration of antimony between the detection and reporting limits. Associated positive results may be considered biased high or false positive. However, no qualification was necessary because antimony was not detected in the associated samples.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on samples MIT-PZ-23A and MIT-PZ-33. The recoveries and RPDs were within QC limits except for calcium in MIT-PZ-23A. However, no qualification was necessary because calcium was detected in the parent sample at greater than 4 times the spike concentration.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Samples MIT-APA12-FB-01 and MIT-APA12-FB-02 are field blanks and are associated with samples MIT-PZ-2D and MIT-PZ-19, respectively. Samples MIT-APA12-EB-01 and MIT-APA12-EB-02 are equipment blanks. MIT-APA12-EB-01 is an equipment blank of the discharge tubing for dedicated bladder pumps and MIT-APA12-EB-02 is the equipment blank associated with monitoring well MIT-PZ-57. Field blank MIT-APA12-FB-01 contained reportable detections of antimony and boron between the detection and reporting limits, and associated results may be considered biased high or false positive. No qualification was required for antimony because antimony was not detected in the associated samples.

Action: The boron result for sample MIT-PZ-2D was qualified as not detected based on blank data (false positive) and flagged "U".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6010D and SW6020B.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator unless overridden by qualification for other QC criteria.

Mercury (SW7470A)

The samples were submitted to Pace for mercury by Method SW7470A. Each of the Level II components were within laboratory QC limits except MS/MSD RPD.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.



Method Blanks

The method blanks associated with the samples analyzed within this SDG did not contain reportable detections of mercury.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on sample MIT-APA12-FB-01, and the recoveries were within QC limits. However, the RPD exceeded the limits, but no qualification was applied because the mercury was not detected in the parent sample.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event. The RPD could not be calculated because mercury was not detected in either the parent or duplicate samples, indicating acceptable precision.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Mercury was not detected in the equipment blanks or the field blanks.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of mercury by USEPA Method SW7470A. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, however there were none in this SDG.

Anions (EPA 300.0)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300.0. Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.



Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on samples MIT-PZ-25 and MIT-APA12-EB-01, and the MS and MSD recoveries and RPDs were within QC limits.

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Anions were not detected in the equipment blanks or the field blanks.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300.0. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM2540C)

The samples were submitted to Pace for TDS by Method SM2540C. Each of the Level II components were within QC limits except equipment blank contamination and field duplicate precision.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed on project samples MIT-APA12-EB-01, and the RPD could not be calculated because TDS was not detected in either sample. Additionally, laboratory duplicate analyses were performed on project sample MIT-PZ-17, and the RPD was within QC limits.

Field Duplicate Precision

As previously noted, two field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved for duplicate pairs MIT-PZ-18/MIT-APA12-FD-01. The RPD for duplicate pair MIT-PZ-57/MIT-APA12-FD-02 exceeded the QC limits.



Action: The TDS results for samples MIT-PZ-57 and MIT-APA12-FD-02 were qualified as estimated and flagged "J".

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

TDS was detected in equipment blank MIT-APA12-EB-02 at a concentration above the reporting limit and associated results may be considered biased high or false positive. Equipment blank MIT-APA12-EB-02 is associated with MIT-PZ-57 and field duplicate MIT-APA12-FD-02. However, no qualification is historically applied to project samples for TDS.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM2540C and no samples required dilutions; therefore, RLs were met for this project.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory; however, there were none reported in this SDG.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: JAH 09/18/24
Checked By/Date: DWK 09/19/24

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92748119
SAMPLING DATES: AUGUST 13 - 15, 2024
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
MIT-PZ-2D	PZ-2D	N	92748119	6020B	boron	0.017	J	U*	BF	mg/L
MIT-PZ-57	PZ-57	N	92748119	2540C	total dissolved solids	348		J	FD	mg/L
MIT-APA12-FD-02	PZ-57	FD	92748119	2540C	total dissolved solids	495		J	FD	mg/L

Notes:

Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by other DQE qualifiers.

Laboratory Qualifiers:

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

Reason Codes:

BF = Field blank contamination. The result should be considered "not-detected".

FD = Field duplicate precision.

Validation Qualifiers:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: JAH 09/18/24

Checked by/Date: DWK 09/19/24



DQE CHECKLISTS



LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 22

Project No: US-EI-6122160170.2404.****

Method: Metals by SW6010D/SW6020B

Laboratory and Lot: Pace SDG: 92748119 (Pace – Peachtree Corners, GA)

Reviewer/Date: J. Hartness 09/17/24 Senior Reviewer/Date: D. Knaub 09/19/24

YES NO NA

COMMENTS

No samples in this SDG required a dilution.



Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.



Sample Preservation and cooler temperature met (HNO_3 to $\text{pH} < 2$;
 $6^\circ\text{C} \pm 2$)

Temps. = 3.8, 3.9, 2.3, 3.8, 3.8, 3.1°C - OK



Holding times met (180 days)

Coll: 08/13/24 – 08/15/24

6010 – Prep: 08/22/24 Anal: 08/22/24

6020 – Prep: 08/17/24, 08/23/24 Anal: 08/21/24, 08/26/24



QC Blanks Review – any MB results above RL?

Method Blanks:

p. 32 SW6010D MB 4518486 (Ca only) = ND

p. 33 SW6010D MB 4519842 (Ca only) = ND

p. 34 SW6020B MB 4514729 ND

p. 36 SW6020B MB 4514733 = ND except:

Sb = $0.00054\text{J} \times 10 = 0.0054$ mg/L (assoc. samples: EB-02, PZ-17)

No flags, associated results ND

p. 38 SW6020B MB 4521510 = ND

Field/Equipment Blanks:

MIT-APA12-FB-01 (assoc. sample MIT-PZ-2D)

Sb = $0.0018\text{J} \times 10 = 0.018$ mg/L

B = $0.015\text{J} \times 10 = 0.15$ mg/L

Flag U: B in MIT-PZ-2D*

MIT-APA12-FB-02 (assoc. MIT-PZ-19) = ND

MIT-APA12-EB-01 = ND

MIT-APA12-EB-02 (assoc. sample MIT-PZ-57) = ND



Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%,
Hg = 80-120%)

p. 32 SW6010D LCS 4518487 – Ca =115% OK

p. 33 SW6010D LCS 4519843 – Ca =113% OK

p. 34 SW6020B LCS 4514730 – All OK

p. 36 SW6020B LCS 4514733 – All OK

p. 38 SW6020B LCS 4521511 – All OK

Metals (SW6010D/6020B) continued:

YES NO NA COMMENTS



Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

Constituent	MIT-PZ-18 (mg/L)	MIT-APA12-FD-01 (mg/L)	RPD/Diff & RL
Ca	139	139	0.0
As	ND (<0.00084)	0.00088J	0.00004 0.005
Ba	0.025	0.025	0.0
B	0.37	0.38	2.7
Li	0.0041 J	0.0042 J	0.0001 0.03
Constituent	MIT-PZ-57 (mg/L)	MIT-APA12-FD-02 (mg/L)	RPD/Diff & RL
Ca	98.3	99.5	1.2
As	0.00086J	0.0012J	0.00034 0.005
Ba	0.048	0.047	2.1
B	0.18	0.18	0.0
Cr	0.0044 J	0.0043 J	0.0001 0.005
Se	0.001 J	ND(<0.00096)	0.00004 0.005

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).



No lab dups for metals

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

p. 32 SW6010D (Ca only) - not a sample from this SDG

p. 33 SW6010D (Ca only) - MIT-PZ-23A -Ca = 82, **234%** RPD = 1 *No flag, sample > 4x spike*

p. 35 SW6020B - not a sample from this SDG

p. 36-37 SW6020B - not a sample from this SDG

p. 38-39 SW6020B - MIT-PZ-33 - all %recs and RPDs OK



Post Digestion Spike recoveries within limits (if applicable: 80-120%)
Not reported for L2 data package



Total metals vs dissolved metals (RPD < 20% or diff. < RL)
No dissolved results in this SDG



EDD Data Verification vs. Hardcopy (10% samples for each SDG)
Checked all samples in this SDG - OK



LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 22

Project No: US-EI-6122160170.2404.***

Method: Hg by SW7470A

Laboratory and Lot: Pace SDG: 92748119 (Pace – Peachtree Corners, GA)

Reviewer/Date: J. Hartness 09/17/24 Senior Reviewer/Date: D. Knaub 09/19/24

YES NO NA

COMMENTS

No samples in this SDG required a dilution.



Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.



Sample Preservation and cooler temperature met (HNO_3 to $\text{pH} < 2$;
 $6^\circ\text{C} \pm 2$)

Temps. = 3.8, 3.9, 2.3, 3.8, 3.8, 3.1°C - OK



Holding times met (Hg = 28 days)

Coll: 08/13/24 – 08/15/24; Prep and Anal: 08/26/24, 08/27/24



QC Blanks Review – any MB results above RL?

Method Blanks:

p. 40 MB 4518068 Hg = ND p. 41 MB 4524107 Hg = ND

Field/Equipment Blanks:

MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND

MIT-APA12-EB-01 and MIT-APA12-EB-02 = ND



Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%,
Hg = 80-120%)

p. 40 LCS 4518069 Hg = 83%; p. 41 LCS 4524108 Hg = 109%



Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

	<u>MIT-PZ-18 (mg/L)</u>	<u>MIT-APA12-FD-01 (mg/L)</u>	<u>RPD/Diff & RL</u>
Hg	ND	ND	NA
	<u>MIT-PZ-57 (mg/L)</u>	<u>MIT-APA12-FD-02 (mg/L)</u>	<u>RPD/Diff & RL</u>
Hg	ND	ND	NA

No lab dups for Hg



Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%,
RPD 20)

p. 40 MIT-APA12-FB-01 Hg = 80, 100% RPD = 21 – *no flags samples ND*

p. 41 not a sample from this SDG



Total metals vs dissolved metals (RPD < 20% or diff. < RL)

No dissolved results in these SDGs



EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked all samples in this SDG - OK

No dilutions in this SDG for Hg

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 22

Project No: US-EI-6122160170.2404.***

Method: Anions (chloride, fluoride, sulfate) by EPA 300

Laboratory and Lot: Pace SDG: 92748119 (Analyzed @ Pace – Asheville, NC)

Reviewer/Date: J. Hartness 09/17/24 Senior Reviewer/Date: D. Knaub 09/19/24

YES NO NA

COMMENTS

No samples in this SDG required a dilution



Case Narrative and COC Completeness Review
No case narrative is included with Level II data package from Pace



Sample Preservation and cooler temperature met (Cool to 6°C)
Temps. = 3.8, 3.9, 2.3, 3.8, 3.8, 3.1°C - OK



Holding times met (28 days)
Coll: 08/13/24 – 08/15/24 Anal: 08/15/24 – 08/17/24



QC Blanks Review – Any detections above RL?
Method Blanks:
p. 45 MB 4512588 = ND p. 46 MB 4512595 = ND
p. 47 MB 4514707 = ND

Field/Equipment Blanks:
MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND
MIT-APA12-EB-01 and MIT-APA12-EB-02 = ND



Laboratory Control Sample (LCS) recovery within lab limits (90-110%)
p. 45 LCS 4512589 – All OK p. 46 LCS 4512596 – All OK
p. 47 LCS 4514708 – All OK



Lab Duplicate - Field Duplicate precision goals met (20%)

Constituent	MIT-PZ-18 (mg/L)	MIT-APA12-FD-01 (mg/L)	RPD/Diff & RL
Cl	4.2	4.2	0.0
SO ₄	94.3	94.6	0.3

Constituent	MIT-PZ-57 (mg/L)	MIT-APA12-FD-02 (mg/L)	RPD/Diff & RL
Cl	2.0	2.0	0.0
SO ₄	59.7	59.5	0.3

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).



Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)
p. 45 MIT-PZ-25 - %recs and RPDs OK
p. 46 MIT-APA12-EB-01 - %recs and RPDs OK
p. 47 not samples from this SDG



EDD Data Verification vs. Hardcopy (10% samples for each SDG)
Checked all samples in this SDG - OK



LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 22

Project No: US-EI-6122160170.2404.****

Method: TDS by SM2540C

Laboratory and Lot: Pace SDG: 92748119 (Analyzed @ Pace – Asheville, NC)

Reviewer/Date: J. Hartness 09/18/24 Senior Reviewer/Date: D. Knaub 09/19/24

YES NO NA

COMMENTS

No samples in this SDG required a dilution.



Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.



Sample Preservation and cooler temperature met (Cool 6°C±2)

Temps. = 3.8, 3.9, 2.3, 3.8, 3.8, 3.1°C - OK



Holding times met (TDS = 7 days)

Coll: 08/13/24 – 08/15/24 Anal: 08/18/24, 08/19/24, 08/21/24 - OK



QC Blanks Review – any MB results above RL?

Method Blanks:

p. 42 MB 4518022 = ND

p. 43 MB 4514654 = ND

p. 44 MB 4514973 = ND

Field/Equipment Blanks:

MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND

MIT-APA12-EB-01 = ND

MIT-APA12-EB-02 (assoc. PZ-57/FD-02) = 74 x 10 = 740 mg/L

No flag are historically applied for TDS



Laboratory Control Sample (LCS) recovery within limits

p. 42 LCS 4518023 TDS = 98%

p. 43 LCS 4514655 TDS = 105%

p. 44 LCS 4514973 TDS = 103%



Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

<u>Constituent</u>	<u>MIT-PZ-18 (mg/L)</u>	<u>MIT-APA12-FD-01 (mg/L)</u>	<u>RPD/Diff & RL</u>
TDS	468	462	1.3
<u>Constituent</u>	<u>MIT-PZ-57 (mg/L)</u>	<u>MIT-APA12-FD-02 (mg/L)</u>	<u>RPD/Diff & RL</u>
TDS	348	495	34.9

Flag samples MIT PZ-57 and MIT-APA12-FD-02 J

Lab Duplicates:

p. 42 MIT-PZ-17 RPD – OK

p. 43 *Not samples from this SDG*

p. 44 MIT-APA12-EB-01 both ND



Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

Not applicable to TDS



EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked all samples in this SDG, OK



Data Evaluation Narrative

Project: Plant Mitchell CCR Groundwater Semiannual Event #22 - Radium

WSP Project Number: US-EI-6122160170.2404.****

Site: Ash Ponds AP-A, AP-1, and AP-2 - Plant Mitchell, Georgia

Matrix: Groundwater

Pace SDG No: 92748122

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #22 (August 2024) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft Plant Mitchell Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. <i>SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.</i>
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. <i>Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).</i>
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier Unusable Data

R The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.

UR The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in Table 1.

Deliverables

The data package as submitted to WSP USA Environment & Infrastructure Inc. (WSP) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW9315 and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for metals, anions, and total dissolved solids (TDS) and reported separately in SDG 92748119. Samples reported in this SDG were sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	08/13/24	II	MIT-PZ-31	08/13/24	II
MIT-PZ-2D	08/13/24	II	MIT-PZ-32	08/13/24	II
MIT-PZ-7D	08/15/24	II	MIT-PZ-33	08/15/24	II
MIT-PZ-14	08/14/24	II	MIT-PZ-57	08/15/24	II
MIT-PZ-15	08/14/24	II	<u>QC Samples</u>		
MIT-PZ-16	08/14/24	II	MIT-APA12-EB-01	08/14/24	II
MIT-PZ-17	08/15/24	II	MIT-APA12-EB-02	08/15/24	II
MIT-PZ-18	08/14/24	II	MIT-APA12-FB-01	08/13/24	II
MIT-PZ-19	08/14/24	II	MIT-APA12-FB-02	08/14/24	II
MIT-PZ-23A	08/14/24	II	MIT-APA12-FD-01	08/14/24	II
MIT-PZ-25	08/13/24	II	MIT-APA12-FD-02	08/15/24	II

These samples were collected from Ash Ponds AP-A, AP-1 and AP-2 between August 13 and August 15, 2024. Sample MIT-APA12-FD-01 is a field duplicate of MIT-PZ-18, and MIT-APA12-FD-02 is a field duplicate of MIT-PZ-57. The field QC blanks include samples MIT-APA12-FB-01 and MIT-APA12-FB-02 (field blanks) and MIT-APA12-EB-01 and MIT-APA12-EB-02 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQUIS database as instructed by GPC by adding the sample type code (WG [groundwater] or WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20240814]); example: *MIT-PZ-14-WG-20240814*. The laboratory incorrectly transcribed the sample times for MIT-PZ-57 and MIT-PZ-FB-02, however they were corrected in the project database.

The analytical results for the radium data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Radium (SW9315/SW9320)

The samples were submitted to Pace for radium-226 (Ra-226), radium-228 (Ra-228) by Methods SW9315 and SW9320, and total radium by calculation. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks did not contain reportable concentrations of radium above the minimum detectable concentration (MDC).

Laboratory Control Sample (LCS)

The LCS recoveries were within QC limits.

Laboratory Duplicate Precision

Laboratory duplicates were performed on samples MIT-PZ-25 for Ra-226 and the RPD was within QC limits.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Total radium, Ra-226, and Ra-228 were not detected above the MDC in duplicate pair MIT-APA12-FD-01 / MIT-PZ-18. For duplicate pair MIT-APA12-FD-02 / MIT-PZ-57, Ra-226 was detected in the duplicate but not the parent, therefore an RPD could not be calculated. However, the difference between results was less than the MDC, indicating acceptable precision.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The equipment blanks MIT-APA12-EB-01 and MIT-APA12-EB-02 and field blanks, MIT-APA12-FB-01 and MIT-APA12-FB-02 did not contain Ra-226, Ra-228, or total radium above the MDC.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries were within QC limits for the samples in this SDG.



Reporting Limits/Minimum Detectable Concentrations

The RLs (MDCs) were below the screening level of 5 pCi/L for samples submitted for the analysis of radium-226 and radium-228 by Methods SW9315 and SW9320.

Sample results in which the values were reported at concentrations below the MDC were flagged "U" and considered not detected.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment, and the data are usable without qualification.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: JAH 09/18/24
Checked By/Date: DWK 09/19/24

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92748122
SAMPLING DATES: AUGUST 13 - 15, 2024
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
No qualification necessary										

Notes:

No qualification was required for the data reported in this sample delivery group.

Prepared by/Date: JAH 09/18/24
Checked by/Date: DWK 09/19/24



DQE CHECKLISTS



LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 22

Project No: US-EI-6122160170.2404.***

Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320

Laboratory and Lot: Pace SDG: 92748122 (Pace-Greensburg, PA)

Reviewer/Date: J. Hartness 09/18/24 Senior Reviewer/Date: D. Knaub 09/19/24

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>								
☒			Case Narrative and COC Completeness Review No case narrative is included with Level II data package from Pace.								
☒			Sample Preservation and cooler temperature met (HNO ₃ to pH<2) Temps. = 3.8, 3.9, 2.3, 3.8, 3.8, 3.1°C - OK								
☒			Holding times met (180 days) Collected: 08/13/24 – 08/15/24 Analyzed: Ra-226: 09/04/24, 09/09/24 Analyzed: Ra-228: 08/28/24, 09/04/24, 09/09/24 Total Ra: 09/05/24, 09/09/24, 09/10/24								
☒			QC Blanks Review (net blank value <MDC) p. 33 Ra-226 (3364353) = present but <MDC p. 34 Ra-228 (3363812) = present but <MDC p. 35 Ra-228 (3369427) = present but <MDC p. 36 Ra-228 (3363813) = present but <MDC p. 37 Ra-226 (3363058) = present but <MDC <u>Field/Equipment Blanks:</u> p. 12 MIT-APA12-EB-02 = ND p. 18 MIT-APA12-FB-01 = ND p. 24 MIT-APA12-EB-01 = ND p. 30 MIT-APA12-FB-02 = ND								
☒			Laboratory Control Sample (LCS) recovery within lab limits (60-135%) p. 59 Ra-228 = 80.23, 85.62% RPD = 6.5% p. 60, 61 Ra-226 = 103.55, 98.28% RPD = 5.22% p. 62, 65 Ra-226 = 91.46, 112.77% RPD = 20.86% p. 63 Ra-228 = 73.96, 77.76% RPD = 5.01% p. 64 Ra-228 = 91.99, 88.17% RPD = 4.24%								
☒			Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples (RPD = RER (2σ) <3)								
<table> <tr> <th><u>Constituent</u></th><th><u>MIT-PZ-18 (pCi/L)</u></th><th><u>MIT-APA12-FD-01 (pCi/L)</u></th><th><u>RPD</u></th></tr> <tr> <td colspan="4">Radium not detected above the MDC</td></tr> </table>				<u>Constituent</u>	<u>MIT-PZ-18 (pCi/L)</u>	<u>MIT-APA12-FD-01 (pCi/L)</u>	<u>RPD</u>	Radium not detected above the MDC			
<u>Constituent</u>	<u>MIT-PZ-18 (pCi/L)</u>	<u>MIT-APA12-FD-01 (pCi/L)</u>	<u>RPD</u>								
Radium not detected above the MDC											
<table> <tr> <th><u>Constituent</u></th><th><u>MIT-PZ-57 (pCi/L)</u></th><th><u>MIT-APA12-FD-02 (pCi/L)</u></th><th><u>RPD/RL</u></th></tr> <tr> <td>Ra-226</td><td>ND (<0.322)</td><td>0.381</td><td>0.058/0.323</td></tr> </table>				<u>Constituent</u>	<u>MIT-PZ-57 (pCi/L)</u>	<u>MIT-APA12-FD-02 (pCi/L)</u>	<u>RPD/RL</u>	Ra-226	ND (<0.322)	0.381	0.058/0.323
<u>Constituent</u>	<u>MIT-PZ-57 (pCi/L)</u>	<u>MIT-APA12-FD-02 (pCi/L)</u>	<u>RPD/RL</u>								
Ra-226	ND (<0.322)	0.381	0.058/0.323								
In cases where one or both results are less than the RL (ND or lab "J" values), differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL.											
Lab dups: p. 60, 61 MIT-PZ-25 Ra-226 RPD 0.72% OK											
Lab dups: p. 62, 65 not a sample from this SDG											



<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
		☒	Matrix Spike recoveries and RPDs within limits (if applicable) None in this SDG
☒			Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba); Ra-228 (Carrier Ba, Tracer: Y) (30-110%) Included on results pages - OK
☒			EDD Data Verification vs. Hardcopy (10% samples for each SDG). Checked all samples in this SDG - OK



APPENDIX C FIELD SAMPLING DATA AUGUST 2024

Low-Flow Test Report:

Test Date / Time: 8/13/2024 1:06:00 PM
Project: Plant Mitchell
Operator Name: Ever Guillen

Location Name: MIT-PZ-1D-202408 Latitude: 31.447339444450517 Longitude: -84.13199597046163 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71 ft Total Depth: 81 ft Initial Depth to Water: 51.94 ft	Pump Type: QED Dedicated Tubing Type: HDPE Pump Intake From TOC: 76 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =13:55

Weather Conditions:
Hot.humid,clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
8/13/2024 1:06 PM	00:00	6.74 pH	35.53 °C	410 µS/cm	6.85 mg/L	12.30 NTU	196.8 mV	51.94 ft	200.00 ml/min
8/13/2024 1:11 PM	05:00	7.23 pH	26.44 °C	260 µS/cm	3.25 mg/L	9.61 NTU	-86.5 mV	52.47 ft	200.00 ml/min
8/13/2024 1:16 PM	10:00	7.34 pH	24.48 °C	270 µS/cm	3.26 mg/L	7.32 NTU	-4.3 mV	53.21 ft	200.00 ml/min
8/13/2024 1:21 PM	15:00	7.36 pH	27.15 °C	260 µS/cm	2.94 mg/L	6.47 NTU	34.1 mV	53.96 ft	200.00 ml/min
8/13/2024 1:26 PM	20:00	7.34 pH	28.19 °C	260 µS/cm	2.33 mg/L	5.12 NTU	34.4 mV	54.13 ft	200.00 ml/min
8/13/2024 1:31 PM	25:00	7.36 pH	27.99 °C	250 µS/cm	2.29 mg/L	3.26 NTU	-3.5 mV	54.13 ft	200.00 ml/min
8/13/2024 1:36 PM	30:00	7.41 pH	27.23 °C	270 µS/cm	2.65 mg/L	2.12 NTU	-77.9 mV	54.13 ft	200.00 ml/min
8/13/2024 1:41 PM	35:00	7.45 pH	27.03 °C	270 µS/cm	2.84 mg/L	1.38 NTU	-52.7 mV	54.13 ft	200.00 ml/min
8/13/2024 1:46 PM	40:00	7.46 pH	25.69 °C	260 µS/cm	2.72 mg/L	1.19 NTU	-101.1 mV	54.13 ft	200.00 ml/min
8/13/20240 1:51 PM	45:00	7.46 pH	25.60 °C	260 µS/cm	2.67 mg/L	1.37 NTU	-71.7 mV	54.13 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 11:42:14 AM
Project: Plant Mitchell
Operator Name: Daniel Howard

Location Name: MIT-PZ-2D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.95 ft Total Depth: 80.95 ft Initial Depth to Water: 35.48 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 75.95 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1224.

Weather Conditions:
Clear and sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/13/2024 11:42 AM	00:00	7.86 pH	22.49 °C	129.05 µS/cm	1.73 mg/L	0.47 NTU	106.6 mV	35.48 ft	200.00 ml/min
8/13/2024 11:47 AM	05:00	8.16 pH	20.70 °C	124.33 µS/cm	2.47 mg/L	0.50 NTU	90.8 mV	35.61 ft	200.00 ml/min
8/13/2024 11:52 AM	10:00	8.71 pH	20.48 °C	120.06 µS/cm	2.70 mg/L	0.81 NTU	81.6 mV	35.61 ft	200.00 ml/min
8/13/2024 11:57 AM	15:00	8.96 pH	20.39 °C	119.66 µS/cm	2.72 mg/L	0.76 NTU	76.3 mV	35.61 ft	200.00 ml/min
8/13/2024 12:02 PM	20:00	9.08 pH	20.39 °C	119.74 µS/cm	2.71 mg/L	0.74 NTU	72.8 mV	35.61 ft	200.00 ml/min
8/13/2024 12:07 PM	25:00	9.15 pH	20.34 °C	119.75 µS/cm	2.73 mg/L	0.88 NTU	71.0 mV	35.61 ft	200.00 ml/min
8/13/2024 12:12 PM	30:00	9.19 pH	20.35 °C	119.38 µS/cm	2.76 mg/L	0.85 NTU	86.6 mV	35.61 ft	200.00 ml/min
8/13/2024 12:17 PM	35:00	9.20 pH	20.37 °C	119.41 µS/cm	2.77 mg/L	1.14 NTU	87.0 mV	35.64 ft	200.00 ml/min
8/13/2024 12:22 PM	40:00	9.20 pH	20.33 °C	119.55 µS/cm	2.79 mg/L	0.89 NTU	86.8 mV	35.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-2D	

Low-Flow Test Report:

Test Date / Time: 8/15/2024 1:17:26 PM
Project: Plant Mitchell (8)
Operator Name: Daniel Howard

Location Name: MIT-PZ-7D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50.37 ft Total Depth: 60.37 ft Initial Depth to Water: 35.39 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 55.37 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1344.

Weather Conditions:
Sunny, hot and humid.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/15/2024 1:17 PM	00:00	7.11 pH	23.46 °C	520.02 µS/cm	1.82 mg/L	5.24 NTU	133.2 mV	35.39 ft	200.00 ml/min
8/15/2024 1:22 PM	05:00	7.07 pH	23.22 °C	525.81 µS/cm	1.60 mg/L	2.83 NTU	134.3 mV	35.49 ft	200.00 ml/min
8/15/2024 1:27 PM	10:00	7.06 pH	23.25 °C	528.21 µS/cm	1.58 mg/L	1.77 NTU	133.3 mV	35.49 ft	200.00 ml/min
8/15/2024 1:32 PM	15:00	7.05 pH	23.34 °C	528.49 µS/cm	1.53 mg/L	1.25 NTU	136.0 mV	35.49 ft	200.00 ml/min
8/15/2024 1:37 PM	20:00	7.05 pH	23.57 °C	528.11 µS/cm	1.51 mg/L	0.86 NTU	133.8 mV	35.49 ft	200.00 ml/min
8/15/2024 1:42 PM	25:00	7.05 pH	23.33 °C	526.09 µS/cm	1.50 mg/L	0.62 NTU	135.4 mV	35.49 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-7D	

Low-Flow Test Report:

Test Date / Time: 8/14/2024 11:37:50 AM

Project: Plant Mitchell

Operator Name: Ever Guillen

Location Name: MIT-PZ-14-WG-202408 Latitude: 31.43567481081135 Longitude: -84.13849697456149 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.6 ft Total Depth: 52.6 ft Initial Depth to Water: 44.32 ft	Pump Type: QED Tubing Type: HDPE Pump Intake From TOC: 47.6 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.39 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:

Sample time =1210

Weather Conditions:

Hot, humid, clear

Low-Flow Readings:

[illegible]

Low-Flow Test Report:

Test Date / Time: 8/14/2024 2:27:26 PM
Project: Plant Mitchell (6)
Operator Name: Daniel Howard

Location Name: MIT-PZ-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73 ft Total Depth: 83 ft Initial Depth to Water: 33.02 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 78 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1454

Weather Conditions:
Sunny, hot and humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 2:27 PM	00:00	7.13 pH	25.64 °C	528.16 µS/cm	1.24 mg/L	4.91 NTU	-36.0 mV	33.02 ft	200.00 ml/min
8/14/2024 2:32 PM	05:00	7.11 pH	24.59 °C	531.95 µS/cm	0.93 mg/L	4.08 NTU	-45.8 mV	33.24 ft	200.00 ml/min
8/14/2024 2:37 PM	10:00	7.11 pH	24.63 °C	534.84 µS/cm	0.80 mg/L	1.62 NTU	-70.7 mV	33.24 ft	200.00 ml/min
8/14/2024 2:42 PM	15:00	7.11 pH	24.52 °C	531.96 µS/cm	0.60 mg/L	1.50 NTU	-70.6 mV	33.24 ft	200.00 ml/min
8/14/2024 2:47 PM	20:00	7.12 pH	24.65 °C	530.92 µS/cm	0.45 mg/L	0.98 NTU	-71.9 mV	33.24 ft	200.00 ml/min
8/14/2024 2:52 PM	25:00	7.11 pH	24.57 °C	531.25 µS/cm	0.41 mg/L	0.48 NTU	-72.3 mV	33.24 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-15	

Low-Flow Test Report:

Test Date / Time: 8/14/2024 10:00:47 AM
Project: Plant Mitchell (3)
Operator Name: Ever Guillen

Location Name: MIT-PZ-16-WG-202408 Latitude: 31.435671206592986 Longitude: -84.13849228069571 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.7 ft Total Depth: 52.7 ft Initial Depth to Water: 35.08 ft	Pump Type: QED Dedicated Tubing Type: HDPE Pump Intake From TOC: 47.7 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =1035

Weather Conditions:
Hot, humid,clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 10:00 AM	00:00	7.48 pH	28.66 °C	430 µS/cm	6.69 mg/L	5.11 NTU	169.4 mV	35.24 ft	200.00 ml/min
8/14/2024 10:05 AM	05:00	7.18 pH	24.66 °C	480 µS/cm	2.60 mg/L	3.67 NTU	110.8 mV	35.24 ft	200.00 ml/min
8/14/2024 10:10 AM	10:00	7.15 pH	24.06 °C	490 µS/cm	2.00 mg/L	2.53 NTU	89.6 mV	35.24 ft	200.00 ml/min
8/14/2024 10:15 AM	15:00	7.16 pH	23.87 °C	490 µS/cm	1.92 mg/L	1.51 NTU	81.9 mV	35.24 ft	200.00 ml/min
8/14/2024 10:20 AM	20:00	7.15 pH	23.99 °C	490 µS/cm	1.92 mg/L	1.14 NTU	80.0 mV	35.24 ft	200.00 ml/min
8/14/2024 10:25 AM	25:00	7.15 pH	24.20 °C	490 µS/cm	1.91 mg/L	0.86 NTU	77.3 mV	35.24 ft	200.00 ml/min
8/14/2024 10:30 AM	30:00	7.15 pH	24.09 °C	490 µS/cm	1.91 mg/L	0.51 NTU	96.2 mV	35.24 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2024 10:01:34 AM
Project: Plant Mitchell
Operator Name: Ever Guillen

Location Name: MIT-PZ-17-WG-202408 Latitude: 31.43567481081135 Longitude: -84.13849697456149 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.8 ft Total Depth: 62.8 ft Initial Depth to Water: 34.47 ft	Pump Type: QED Tubing Type: HDPE Pump Intake From TOC: 57.8 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =1050

Weather Conditions:
Hot, humid, clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/15/2024 10:01 AM	00:00	7.49 pH	28.97 °C	420 µS/cm	7.57 mg/L	5.52 NTU	168.6 mV	34.59 ft	200.00 ml/min
8/15/2024 10:06 AM	05:00	7.35 pH	23.92 °C	360 µS/cm	0.56 mg/L	4.17 NTU	-2.9 mV	34.74 ft	200.00 ml/min
8/15/2024 10:11 AM	10:00	7.35 pH	23.74 °C	360 µS/cm	0.17 mg/L	3.64 NTU	20.7 mV	34.74 ft	200.00 ml/min
8/15/2024 10:16 AM	15:00	7.36 pH	23.74 °C	360 µS/cm	0.11 mg/L	2.86 NTU	21.0 mV	34.74 ft	200.00 ml/min
8/15/2024 10:21 AM	20:00	7.35 pH	23.79 °C	360 µS/cm	0.10 mg/L	1.62 NTU	19.1 mV	34.74 ft	200.00 ml/min
8/15/2024 10:26 AM	25:00	7.35 pH	23.83 °C	360 µS/cm	0.10 mg/L	1.53 NTU	17.3 mV	34.74 ft	200.00 ml/min
8/15/2024 10:31 AM	30:00	7.36 pH	23.56 °C	360 µS/cm	0.10 mg/L	0.98 NTU	14.5 mV	34.74 ft	200.00 ml/min
8/15/2024 10:36 AM	35:00	7.35 pH	23.75 °C	360 µS/cm	0.10 mg/L	0.76 NTU	11.1 mV	34.74 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 2:20:38 PM
Project: Plant Mitchell
Operator Name: Ever Guillen

Location Name: MIT-PZ-18-WG-202408 Latitude: 31.43567481081135 Longitude: -84.13849697456149 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.8 ft Total Depth: 62.8 ft Initial Depth to Water: 31.83 ft	Pump Type: QED Tubing Type: HDPE Pump Intake From TOC: 57.8 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =1500

Weather Conditions:
Hot, humid, clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 2:20 PM	00:00	7.92 pH	37.39 °C	420 µS/cm	7.62 mg/L	4.61 NTU	88.2 mV	31.83 ft	200.00 ml/min
8/14/2024 2:25 PM	05:00	6.96 pH	27.27 °C	680 µS/cm	1.15 mg/L	4.03 NTU	48.5 mV	32.11 ft	200.00 ml/min
8/14/2024 2:30 PM	10:00	6.92 pH	25.69 °C	690 µS/cm	0.33 mg/L	2.37 NTU	56.9 mV	32.11 ft	200.00 ml/min
8/14/2024 2:35 PM	15:00	6.92 pH	26.62 °C	690 µS/cm	0.19 mg/L	1.76 NTU	48.4 mV	32.11 ft	200.00 ml/min
8/14/2024 2:40 PM	20:00	6.92 pH	26.97 °C	690 µS/cm	0.17 mg/L	1.07 NTU	47.0 mV	32.11 ft	200.00 ml/min
8/14/2024 2:45 PM	25:00	6.91 pH	26.50 °C	690 µS/cm	0.15 mg/L	0.69 NTU	45.8 mV	32.11 ft	200.00 ml/min
8/14/2024 2:50 PM	30:00	6.91 pH	26.33 °C	690 µS/cm	0.15 mg/L	0.87 NTU	45.0 mV	32.11 ft	200.00 ml/min
8/14/2024 2:55 PM	35:00	6.92 pH	24.93 °C	690 µS/cm	0.14 mg/L	0.48 NTU	44.4 mV	32.11 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:40:07 PM
Project: Plant Mitchell (5)
Operator Name: Daniel Howard

Location Name: MIT-PZ-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.63 ft Total Depth: 62.63 ft Initial Depth to Water: 33.35 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 57.63 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1312.

Weather Conditions:
Sunny, hot and humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 12:40 PM	00:00	6.95 pH	24.90 °C	653.51 µS/cm	2.71 mg/L	0.45 NTU	167.6 mV	33.35 ft	200.00 ml/min
8/14/2024 12:45 PM	05:00	6.92 pH	24.15 °C	659.63 µS/cm	2.18 mg/L	0.85 NTU	156.8 mV	33.40 ft	200.00 ml/min
8/14/2024 12:50 PM	10:00	6.91 pH	23.97 °C	661.52 µS/cm	1.92 mg/L	0.68 NTU	193.3 mV	33.43 ft	200.00 ml/min
8/14/2024 12:55 PM	15:00	6.91 pH	23.79 °C	662.28 µS/cm	1.73 mg/L	0.62 NTU	189.7 mV	33.43 ft	200.00 ml/min
8/14/2024 1:00 PM	20:00	6.90 pH	23.86 °C	659.34 µS/cm	1.61 mg/L	0.36 NTU	186.9 mV	33.43 ft	200.00 ml/min
8/14/2024 1:05 PM	25:00	6.90 pH	23.75 °C	661.92 µS/cm	1.53 mg/L	0.30 NTU	184.6 mV	33.43 ft	200.00 ml/min
8/14/2024 1:10 PM	30:00	6.90 pH	23.91 °C	659.79 µS/cm	1.45 mg/L	0.21 NTU	183.2 mV	33.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-19	

Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:40:07 PM
Project: Plant Mitchell (5)
Operator Name: Daniel Howard

Location Name: MIT-PZ-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.63 ft Total Depth: 62.63 ft Initial Depth to Water: 33.35 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 57.63 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1312.

Weather Conditions:
Sunny, hot and humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 12:40 PM	00:00	6.95 pH	24.90 °C	653.51 µS/cm	2.71 mg/L	0.45 NTU	167.6 mV	33.35 ft	200.00 ml/min
8/14/2024 12:45 PM	05:00	6.92 pH	24.15 °C	659.63 µS/cm	2.18 mg/L	0.85 NTU	156.8 mV	33.40 ft	200.00 ml/min
8/14/2024 12:50 PM	10:00	6.91 pH	23.97 °C	661.52 µS/cm	1.92 mg/L	0.68 NTU	193.3 mV	33.43 ft	200.00 ml/min
8/14/2024 12:55 PM	15:00	6.91 pH	23.79 °C	662.28 µS/cm	1.73 mg/L	0.62 NTU	189.7 mV	33.43 ft	200.00 ml/min
8/14/2024 1:00 PM	20:00	6.90 pH	23.86 °C	659.34 µS/cm	1.61 mg/L	0.36 NTU	186.9 mV	33.43 ft	200.00 ml/min
8/14/2024 1:05 PM	25:00	6.90 pH	23.75 °C	661.92 µS/cm	1.53 mg/L	0.30 NTU	184.6 mV	33.43 ft	200.00 ml/min
8/14/2024 1:10 PM	30:00	6.90 pH	23.91 °C	659.79 µS/cm	1.45 mg/L	0.21 NTU	183.2 mV	33.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-19	

Low-Flow Test Report:

Test Date / Time: 8/14/2024 10:30:32 AM
Project: Plant Mitchell (4)
Operator Name: Daniel Howard

Location Name: MIT-PZ-23A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.21 ft Total Depth: 67.21 ft Initial Depth to Water: 50.64 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 62.21 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1102.

Weather Conditions:
Clear and sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/14/2024 10:30 AM	00:00	6.79 pH	24.10 °C	725.52 µS/cm	2.54 mg/L	5.22 NTU	206.8 mV	50.64 ft	150.00 ml/min
8/14/2024 10:35 AM	05:00	6.77 pH	23.79 °C	725.30 µS/cm	2.33 mg/L	3.49 NTU	190.9 mV	51.04 ft	150.00 ml/min
8/14/2024 10:40 AM	10:00	6.77 pH	23.93 °C	723.74 µS/cm	2.25 mg/L	2.35 NTU	185.7 mV	51.04 ft	150.00 ml/min
8/14/2024 10:45 AM	15:00	6.76 pH	23.86 °C	722.39 µS/cm	2.21 mg/L	1.55 NTU	236.9 mV	51.04 ft	150.00 ml/min
8/14/2024 10:50 AM	20:00	6.76 pH	23.90 °C	721.95 µS/cm	2.17 mg/L	1.40 NTU	183.1 mV	51.04 ft	150.00 ml/min
8/14/2024 10:55 AM	25:00	6.75 pH	24.00 °C	722.79 µS/cm	2.17 mg/L	1.11 NTU	234.7 mV	51.04 ft	150.00 ml/min
8/14/2024 11:00 AM	30:00	6.75 pH	24.05 °C	720.00 µS/cm	2.17 mg/L	0.92 NTU	233.7 mV	51.04 ft	150.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-23A	

Low-Flow Test Report:

Test Date / Time: 8/13/2024 3:33:30 PM
Project: Plant Mitchell (3)
Operator Name: Daniel Howard

Location Name: MIT-PZ-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.19 ft Total Depth: 63.19 ft Initial Depth to Water: 32 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 58.19 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1600.

Weather Conditions:
Sunny, hot and humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/13/2024 3:33 PM	00:00	7.11 pH	25.10 °C	446.22 µS/cm	1.40 mg/L	15.30 NTU	17.2 mV	32.00 ft	200.00 ml/min
8/13/2024 3:38 PM	05:00	7.07 pH	24.39 °C	448.92 µS/cm	0.56 mg/L	8.73 NTU	-1.1 mV	32.13 ft	200.00 ml/min
8/13/2024 3:43 PM	10:00	7.06 pH	24.19 °C	456.25 µS/cm	0.33 mg/L	3.93 NTU	-10.9 mV	32.13 ft	200.00 ml/min
8/13/2024 3:48 PM	15:00	7.06 pH	24.15 °C	455.33 µS/cm	0.26 mg/L	2.25 NTU	-7.1 mV	32.13 ft	200.00 ml/min
8/13/2024 3:53 PM	20:00	7.05 pH	24.18 °C	456.02 µS/cm	0.22 mg/L	1.95 NTU	-11.5 mV	32.13 ft	200.00 ml/min
8/13/2024 3:58 PM	25:00	7.06 pH	24.13 °C	455.97 µS/cm	0.20 mg/L	1.06 NTU	-14.1 mV	32.13 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-25	

Low-Flow Test Report:

Test Date / Time: 8/13/2024 2:51:58 PM
Project: Plant Mitchell (2)
Operator Name: Ever Guillen

Location Name: MIT-PZ-31-202408 Latitude: 31.449047634407364 Longitude: -84.13367846988527 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.6 ft Total Depth: 59.6 ft Initial Depth to Water: 38.83 ft	Pump Type: QED Dedicated Tubing Type: HDPE Pump Intake From TOC: 54.6 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =1535

Weather Conditions:
Hot,humid,clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/13/2024 2:51 PM	00:00	7.60 pH	32.40 °C	410 µS/cm	6.91 mg/L	8.30 NTU	109.5 mV	38.96 ft	200.00 ml/min
8/13/2024 2:56 PM	05:00	7.13 pH	24.87 °C	470 µS/cm	5.06 mg/L	7.63 NTU	102.4 mV	39.41 ft	200.00 ml/min
8/13/20240 3:01 PM	10:00	7.12 pH	24.15 °C	470 µS/cm	4.75 mg/L	6.10 NTU	72.1 mV	39.41 ft	200.00 ml/min
8/13/2024 3:06 PM	15:00	7.12 pH	23.88 °C	470 µS/cm	4.70 mg/L	4.67 NTU	88.4 mV	39.41 ft	200.00 ml/min
8/13/2024 3:11 PM	20:00	7.12 pH	23.75 °C	470 µS/cm	4.69 mg/L	3.82 NTU	70.0 mV	39.41 ft	200.00 ml/min
8/13/2024 3:16 PM	25:00	7.12 pH	23.72 °C	470 µS/cm	4.68 mg/L	1.93 NTU	88.2 mV	39.41 ft	200.00 ml/min
8/13/2024 3:21 PM	30:00	7.11 pH	23.47 °C	470 µS/cm	4.68 mg/L	1.03 NTU	90.8 mV	39.41 ft	200.00 ml/min
8/13/2024 3:26 PM	35:00	7.12 pH	23.63 °C	470 µS/cm	4.71 mg/L	1.26 NTU	70.4 mV	39.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/13/2024 1:52:22 PM
Project: Plant Mitchell (2)
Operator Name: Daniel Howard

Location Name: MIT-PZ-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.3 ft Total Depth: 65.3 ft Initial Depth to Water: 37.35 ft	Pump Type: Dedicated Bladder Tubing Type: HDPE Pump Intake From TOC: 60.3 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1429.

Weather Conditions:
Clear and sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/13/2024 1:52 PM	00:00	7.29 pH	21.86 °C	329.41 µS/cm	3.24 mg/L	0.92 NTU	109.7 mV	37.35 ft	200.00 ml/min
8/13/2024 1:57 PM	05:00	7.32 pH	21.04 °C	330.94 µS/cm	2.86 mg/L	0.71 NTU	117.6 mV	37.43 ft	200.00 ml/min
8/13/2024 2:02 PM	10:00	7.32 pH	20.97 °C	330.91 µS/cm	2.66 mg/L	0.74 NTU	151.1 mV	37.43 ft	200.00 ml/min
8/13/2024 2:07 PM	15:00	7.33 pH	20.96 °C	334.78 µS/cm	2.41 mg/L	0.68 NTU	150.2 mV	37.43 ft	200.00 ml/min
8/13/2024 2:12 PM	20:00	7.33 pH	20.91 °C	334.70 µS/cm	2.27 mg/L	0.56 NTU	149.3 mV	37.43 ft	200.00 ml/min
8/13/2024 2:17 PM	25:00	7.33 pH	20.87 °C	333.40 µS/cm	2.16 mg/L	0.42 NTU	148.2 mV	37.43 ft	200.00 ml/min
8/13/2024 2:22 PM	30:00	7.34 pH	20.95 °C	333.19 µS/cm	2.09 mg/L	0.20 NTU	148.1 mV	37.44 ft	200.00 ml/min
8/13/2024 2:27 PM	35:00	7.33 pH	20.91 °C	333.18 µS/cm	2.05 mg/L	0.20 NTU	148.7 mV	37.44 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-32	

Low-Flow Test Report:

Test Date / Time: 8/15/2024 1:20:28 PM
Project: Plant Mitchell
Operator Name: Ever Guillen

Location Name: MIT-PZ-33-WG-202408 Latitude: 31.435678415029713 Longitude: -84.13850108169405 Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.9 ft Total Depth: 72.9 ft Initial Depth to Water: 50.63 ft	Pump Type: QED Tubing Type: HDPE Pump Intake From TOC: 67.9 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 952637
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Test Notes:
Sample time =1400

Weather Conditions:
Hot, humid, clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/15/2024 1:20 PM	00:00	7.55 pH	27.73 °C	370 µS/cm	5.25 mg/L	5.95 NTU	103.8 mV	50.74 ft	200.00 ml/min
8/15/2024 1:25 PM	05:00	7.11 pH	28.07 °C	510 µS/cm	3.03 mg/L	5.15 NTU	3.8 mV	50.85 ft	200.00 ml/min
8/15/2024 1:30 PM	10:00	7.07 pH	27.00 °C	520 µS/cm	0.93 mg/L	3.92 NTU	38.4 mV	50.85 ft	200.00 ml/min
8/15/2024 1:35 PM	15:00	7.06 pH	27.14 °C	520 µS/cm	0.52 mg/L	3.02 NTU	49.5 mV	50.85 ft	200.00 ml/min
8/15/2024 1:40 PM	20:00	7.07 pH	25.81 °C	520 µS/cm	0.26 mg/L	2.32 NTU	43.7 mV	50.85 ft	200.00 ml/min
8/15/2024 1:45 PM	25:00	7.07 pH	26.20 °C	520 µS/cm	0.20 mg/L	1.48 NTU	42.0 mV	50.85 ft	200.00 ml/min
8/15/2024 1:50 PM	30:00	7.07 pH	26.51 °C	520 µS/cm	0.18 mg/L	0.92 NTU	42.0 mV	50.85 ft	200.00 ml/min
8/15/2024 1:55 PM	35:00	7.07 pH	26.83 °C	520 µS/cm	0.18 mg/L	0.61 NTU	41.6 mV	50.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2024 10:37:44 AM
Project: Plant Mitchell (7)
Operator Name: Daniel Howard

Location Name: MIT-PZ-57 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.39 ft Total Depth: 73.39 ft Initial Depth to Water: 31.38 ft	Pump Type: QED Bladder Pump Tubing Type: HDPE Pump Intake From TOC: 68.39 ft Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883553
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Test Notes:
Sample time 1114. Also collected dup MIT-APA12-FD-02.

Weather Conditions:
Sunny, hot and humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
8/15/2024 10:37 AM	00:00	7.22 pH	25.80 °C	516.87 µS/cm	2.73 mg/L	11.60 NTU	162.6 mV	31.38 ft	200.00 ml/min
8/15/2024 10:42 AM	05:00	7.12 pH	24.02 °C	533.14 µS/cm	2.41 mg/L	8.53 NTU	160.0 mV	31.78 ft	200.00 ml/min
8/15/2024 10:47 AM	10:00	7.11 pH	24.06 °C	532.00 µS/cm	2.05 mg/L	4.18 NTU	204.1 mV	31.78 ft	200.00 ml/min
8/15/2024 10:52 AM	15:00	7.10 pH	24.17 °C	532.00 µS/cm	1.83 mg/L	1.93 NTU	203.7 mV	31.78 ft	200.00 ml/min
8/15/2024 10:57 AM	20:00	7.10 pH	24.10 °C	532.24 µS/cm	1.62 mg/L	1.45 NTU	202.0 mV	31.78 ft	200.00 ml/min
8/15/2024 11:02 AM	25:00	7.10 pH	24.06 °C	533.81 µS/cm	1.48 mg/L	1.28 NTU	200.3 mV	31.78 ft	200.00 ml/min
8/15/2024 11:07 AM	30:00	7.10 pH	24.01 °C	532.05 µS/cm	1.42 mg/L	1.11 NTU	199.8 mV	31.78 ft	200.00 ml/min
8/15/2024 11:12 AM	35:00	7.10 pH	23.76 °C	534.08 µS/cm	1.35 mg/L	0.49 NTU	198.3 mV	31.78 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-57	



APPENDIX C CALIBRATION DATA

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

Date: 8/13/24

Calibrated By: Daniel Howard

Field Conditions: Clear + Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Instru Aqua Troll 400</u>	<u>883553</u>
Turbidity Meter	<u>Hach 2100 Q</u>	<u>22090D000086</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	<u>24005593</u>	<u>11/24</u>	<u>ATI Instru</u>
pH (SU)	4.00	<u>24005593</u>	<u>11/24</u>	↓
pH (SU)	7.00	<u>24000085</u>	<u>24003597 / 11/24</u>	
pH (SU)	10.00	<u>24000085</u>	<u>12/24</u>	
D.O. (%)	N/A	<u>NA</u>	<u>NA</u>	<u>NA</u>
ORP (mV)	228.0	<u>24011792</u>	<u>6/25</u>	<u>ATI Instru</u>

Calibration					
Time Start <u>0600</u>		Time Finish <u>0630</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4490</u>	<u>24.64</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>24.09</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>24.69</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>24.93</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>7.59</u>	<u>23.12</u>	± 10%	NA
ORP (mV)	228.0	<u>229.4</u>	<u>24.82</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>20.1</u>	± 10% of standard	EPA 2023
	<u>100</u>	<u>101</u>		
	<u>800</u>	<u>796</u>		
	<u>ck 10</u>	<u>9.78</u>		

Calibration Check					
Time Start <u>1237</u>		Time Finish <u>1250</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4447</u>	<u>24.64</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.06</u>	<u>24.53</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.02</u>	<u>25.46</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.99</u>	<u>26.15</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>19.7</u>	± 10% of standard	EPA 2023
	<u>100</u>	<u>99.6</u>		
	<u>800</u>	<u>794</u>		
	<u>ck 10</u>	<u>9.95</u>		

Notes:

Site Name: Plant Mitchell
Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 8/14/24

Field Conditions: Clear + Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-stu Aqua Troll 420	883553
Turbidity Meter	Hach 2100 Q	2209000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	ATI Instru ↓
pH (SU)	4.00	24005593	11/24	
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	NA	NA	NA
ORP (mV)	228.0	24011792	6/25	ATI Instru

Calibration					
Time Start <u>0540</u>		Time Finish <u>0605</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4490</u>	<u>23.56</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>23.46</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>24.16</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>24.45</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>7.40</u>	<u>23.69</u>	± 10%	NA
ORP (mV)	228.0	<u>229.9</u>	<u>24.40</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>19.6</u>	± 10% of standard	EPA 2023
	<u>100</u>	<u>97.7</u>		
	<u>800</u>	<u>801</u>		
	<u>ck 10</u>	<u>9.38</u>		

Calibration Check					
Time Start <u>1335</u>		Time Finish <u>1345</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4480</u>	<u>30.19</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.06</u>	<u>30.19</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.99</u>	<u>30.15</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.90</u>	<u>29.84</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>19.4</u>	± 10% of standard	EPA 2023
	<u>100</u>	<u>98.3</u>		
	<u>800</u>	<u>778</u>		
	<u>ck 10</u>	<u>10.2</u>		

Notes:

Site Name: Plant Mitchell
Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 8/15/24
Field Conditions: Clear + Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Insta Aqua Troll 1400</u>	<u>883553</u>
Turbidity Meter	<u>Hach 2100 Q</u>	<u>22090D000086</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	<u>24005593</u>	<u>11/24</u>	<u>ATI Instru</u>
pH (SU)	4.00	<u>24005593</u>	<u>11/24</u>	<u>↓</u>
pH (SU)	7.00	<u>24003597</u>	<u>11/24</u>	
pH (SU)	10.00	<u>24000085</u>	<u>12/24</u>	
D.O. (%)	N/A	<u>NA</u>	<u>NA</u>	<u>NA</u>
ORP (mV)	228.0	<u>24011792</u>	<u>6/25</u>	<u>ATI Instru</u>

Calibration					
Time Start <u>0530</u>		Time Finish <u>0600</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	<u>4490</u>	<u>23.81</u>	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>23.66</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>24.38</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>24.42</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>7.39</u>	<u>23.57</u>	$\pm 10\%$	NA
ORP (mV)	228.0	<u>229.7</u>	<u>24.51</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>19.4</u>	$\pm 10\%$ of standard	EPA 2023
	<u>100</u>	<u>99.8</u>		
	<u>800</u>	<u>794</u>		
	<u>CK 10</u>	<u>10.2</u>		

Calibration Check					
Time Start <u>1430</u>		Time Finish <u>1440</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	<u>4416</u>	<u>28.13</u>	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	<u>4.03</u>	<u>28.15</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>28.46</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.95</u>	<u>27.95</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>20</u>	<u>20.8</u>	$\pm 10\%$ of standard	EPA 2023
	<u>100</u>	<u>101</u>		
	<u>800</u>	<u>788</u>		
	<u>CK 10</u>	<u>10.4</u>		

Notes:

Site Name: PLANT MITCHELL

Field Instrumentation Calibration Form

Date: 8-13-24

Calibrated By:

Field Conditions: HOT/HUMID/CLEAR

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	INSITU AT400	952637
Turbidity Meter	HACH 2100Q	220820173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	AIR
pH (SU)	4.00	24010943	5/25	"
pH (SU)	7.00	24004517	12/24	"
pH (SU)	10.00	24000085	12/24	"
D.O. (%)	N/A	—	—	"
ORP (mV)	228.0	24011792	6-25	"

Calibration					
Time Start <u>1210</u>		Time Finish <u>1250</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4.61</u>	<u>29.15</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>3.98</u>	<u>29.20</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.92</u>	<u>29.43</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.92</u>	<u>29.12</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>7.78</u>	<u>29.29</u>	± 10%	NA
ORP (mV)	228.0	<u>216.9</u>	<u>29.27</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.2</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>20.0</u>		
	<u>100</u>	<u>101</u>		
	<u>800</u>	<u>848</u>		

Calibration Check					
Time Start <u>1605</u>		Time Finish <u>1615</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4.68</u>	<u>29.12</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.09</u>	<u>29.12</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.05</u>	<u>29.58</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.96</u>	<u>29.43</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.3</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>20</u>		
	<u>100</u>	<u>101</u>		
	<u>800</u>	<u>848</u>		

Notes:

Site Name: PLANT MITCHELL

Field Instrumentation Calibration Form

Date: 8-14-24

Calibrated By: EVER GUILLEN

Field Conditions: HOT, HUMID, CLEAR

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	INSITU AT400	952637
Turbidity Meter	HACH 2100R	220800173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5-25	AIR ↓
pH (SU)	4.00	24010943	5-25	
pH (SU)	7.00	24004517	12-24	
pH (SU)	10.00	24000085	12-24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24011792	6-25	

Calibration					
Time Start <u>0830</u>		Time Finish <u>0900</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>7,974.72</u>	<u>26.78</u> 27.02	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.02</u>	<u>27.15</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.01</u>	<u>27.36</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.02</u>	<u>27.57</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>7.97</u>	<u>26.78</u>	± 10%	NA
ORP (mV)	228.0	<u>222.6</u>	<u>27.71</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.4</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>19.7</u>		
	<u>100</u>	<u>98.6</u>		
	<u>800</u>	<u>797</u>		

Calibration Check					
Time Start <u>1330</u>		Time Finish <u>1340</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	<u>4.57</u>	<u>28.70</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.04</u>	<u>28.70</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.04</u>	<u>28.46</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.88</u>	<u>28.20</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.6</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>20.5</u>		
	<u>100</u>	<u>100</u>		
	<u>800</u>	<u>804</u>		

Notes:

Site Name: PLANT MITCHELL

Field Instrumentation Calibration Form

Date: 8-15-24

Calibrated By: EVER GUILLEN

Field Conditions: HOT-HUMID-CLEAR

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>INSTRU AT 900</u>	<u>952637</u>
Turbidity Meter	<u>HACH 2100Q</u>	<u>220800173</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (μS/cm)	4,490	<u>24010943</u>	<u>5-25</u>	<u>AIR</u> ↓
pH (SU)	4.00	<u>24010943</u>	<u>5-25</u>	
pH (SU)	7.00	<u>24009517</u>	<u>12-24</u>	
pH (SU)	10.00	<u>24000085</u>	<u>12-24</u>	
D.O. (%)	N/A	<u>-</u>	<u>-</u>	
ORP (mV)	228.0	<u>24011792</u>	<u>6-25</u>	

Calibration					
Time Start <u>0830</u>		Time Finish <u>0900</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (μS/cm)	4,490	<u>4.42</u>	<u>26.98</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>4.15</u>	<u>27.36</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.04</u>	<u>27.38</u>	± 0.1	GWMP
pH (SU)	10.00	<u>9.93</u>	<u>27.38</u>	± 0.1	GWMP
D.O. (%)	N/A	<u>8.12</u>	<u>26.20</u>	± 10%	NA
ORP (mV)	228.0	<u>227.3</u>	<u>27.34</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.5</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>20.2</u>		
	<u>100</u>	<u>99.1</u>		
	<u>800</u>	<u>792</u>		

Calibration Check					
Time Start <u>1500</u>		Time Finish <u>1520</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (μS/cm)	4,490	<u>4.46</u>	<u>28.87</u>	± 10% of standard	EPA 2023
pH (SU)	4.00	<u>3.96</u>	<u>28.87</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>28.16</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.02</u>	<u>27.59</u>	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	<u>10</u>	<u>10.7</u>	± 10% of standard	EPA 2023
	<u>20</u>	<u>20.0</u>		
	<u>100</u>	<u>101</u>		
	<u>800</u>	<u>798</u>		

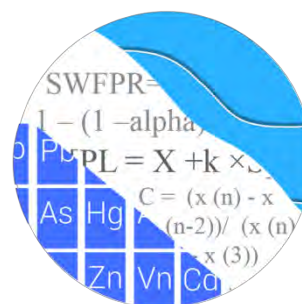
Notes:



APPENDIX D

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING



February 28, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
August 2024 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical analysis of groundwater data for Georgia Power Company's Plant Mitchell Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells except for newly installed downgradient well PZ-57 which was first sampled in January 2022. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

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

- o **Upgradient wells:** PZ-1D, PZ-2D, PZ-31, and PZ-32

- o **Downgradient wells:** PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-57

Note that well PZ-23 was abandoned and was replaced with well PZ-23A which was first sampled in March 2020. Since new well PZ-23A was installed in close proximity to well PZ-23, the data from the two wells were combined. Additionally, downgradient well PZ-57 has been sampled six times since installation in January 2022. Data for this well are plotted on time series and box plots, and formal statistics are conducted when a minimum of 8 samples is available for Appendix III and IV constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- o **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- o **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% non-detects since 2016 for Appendix IV constituents follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within both individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening, described below, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the screening report to demonstrate that the selected statistical methods for the parameters listed above comply

with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the March 2019 evaluation for state and federal regulatory requirements described below, 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 each Appendix III constituent
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each 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, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Initial Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III 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.

Using the Tukey box plot method, several outliers were identified, and the reports were submitted with the screening. In cases where the most recent value was identified as an outlier, values were not flagged in the database at that time as they may represent a future trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the values identified by Tukey's method, only a few of these values were flagged in the database as outliers since all other values were similar to remaining measurements within a given well or neighboring wells or were non-detects.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

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 may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends, and the reports were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed one statistically significant decreasing trend for chloride at well PZ-25. This trend was relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data set.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for boron and fluoride, making these constituents eligible for interwell analyses. Variation was noted for calcium, chloride, pH, sulfate and TDS. While data were further tested for intrawell eligibility during the screening, interwell methods are used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – August 2024 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed using time series for potential outliers during this analysis. No additional values were flagged as outliers and a summary of previously flagged outliers follows this report (Figure C). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter. The following interwell prediction limit exceedances were noted for the Appendix III parameters:

- Boron: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, and PZ-7D
- Calcium: PZ-18, PZ-19, and PZ-23A
- Chloride: PZ-15 and PZ-16
- pH (lower limit): PZ-18, PZ-19, and PZ-23A

- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, and PZ-7D
- TDS: PZ-15, PZ-16, PZ-18, PZ-19, PZ-23A, PZ-33, PZ-57, and PZ-7D

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Calcium: PZ-1D, PZ-32 (both upgradient), and PZ-18
- Sulfate: PZ-14

Decreasing:

- Boron: PZ-17, PZ-25, PZ-33, and PZ-7D
- Chloride: PZ-31 (upgradient), PZ-15, and PZ-16
- Sulfate: PZ-2D, PZ-31 (both upgradient), PZ-16, PZ-17, PZ-19, PZ-25, PZ-33, PZ-57, and PZ-7D
- TDS: PZ-33 and PZ-7D

Statistical Analysis of Appendix IV Parameters – August 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for each Appendix IV

constituent (Figure F). Parametric limits are constructed when data follow a normal or transformed-normal distribution with a target of 95% confidence and 95% coverage, such as the case for barium and combined radium 226 + 228. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement.

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 to GWPS, confidence intervals were constructed for each of the Appendix IV constituents using data through August 2024 in accordance with the state requirements in each downgradient well (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects did not require analysis. All downgradient wells contained 100% non-detects for beryllium; therefore, this constituent was not analyzed with confidence intervals.

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 of samples available.

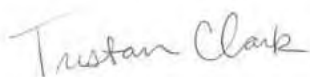
Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. No exceedances were identified, and summaries and graphical results of the confidence intervals analyses follow this letter.

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. 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. Since no confidence interval exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Mitchell Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 2/7/2025 11:29 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L)
PZ-25

Arsenic (mg/L)
PZ-16, PZ-18

Beryllium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Cadmium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-7D

Chromium (mg/L)
PZ-15, PZ-17, PZ-25

Cobalt (mg/L)
PZ-7D

Lead (mg/L)
PZ-14, PZ-17, PZ-25

Lithium (mg/L)
PZ-16, PZ-33

Molybdenum (mg/L)
PZ-18, PZ-33, PZ-7D

Selenium (mg/L)
PZ-16, PZ-17, PZ-18, PZ-25, PZ-33

Appendix III Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02721	n/a	8/14/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-16	0.02721	n/a	8/14/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-17	0.02721	n/a	8/15/2024	0.053	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-18	0.02721	n/a	8/14/2024	0.37	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-19	0.02721	n/a	8/14/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-23A	0.02721	n/a	8/14/2024	0.16	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-25	0.02721	n/a	8/13/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-33	0.02721	n/a	8/15/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-57	0.02721	n/a	8/15/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Boron (mg/L)	PZ-7D	0.02721	n/a	8/15/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523	Param Inter 1 of 2	
Calcium (mg/L)	PZ-18	110	n/a	8/14/2024	139	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2	
Calcium (mg/L)	PZ-19	110	n/a	8/14/2024	118	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2	
Calcium (mg/L)	PZ-23A	110	n/a	8/14/2024	141	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2	
Chloride (mg/L)	PZ-15	5	n/a	8/14/2024	6.1	Yes	80	0	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2	
Chloride (mg/L)	PZ-16	5	n/a	8/14/2024	5.9	Yes	80	0	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2	
pH (SU)	PZ-18	9.48	6.96	8/14/2024	6.92	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2	
pH (SU)	PZ-19	9.48	6.96	8/14/2024	6.9	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2	
pH (SU)	PZ-23A	9.48	6.96	8/14/2024	6.75	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	PZ-14	5.898	n/a	8/14/2024	17.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-15	5.898	n/a	8/14/2024	78.4	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-16	5.898	n/a	8/14/2024	38.8	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-17	5.898	n/a	8/15/2024	18.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-18	5.898	n/a	8/14/2024	94.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-19	5.898	n/a	8/14/2024	61.7	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-23A	5.898	n/a	8/14/2024	43.4	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-25	5.898	n/a	8/13/2024	34.8	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-33	5.898	n/a	8/15/2024	31.6	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-57	5.898	n/a	8/15/2024	59.7	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Sulfate (mg/L)	PZ-7D	5.898	n/a	8/15/2024	39	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-15	307.1	n/a	8/14/2024	342	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-16	307.1	n/a	8/14/2024	311	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-18	307.1	n/a	8/14/2024	468	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-19	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-33	307.1	n/a	8/15/2024	341	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-57	307.1	n/a	8/15/2024	348	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	307.1	n/a	8/15/2024	350	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2	

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02721	n/a	8/14/2024	0.035J	No	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02721	n/a	8/14/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02721	n/a	8/14/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02721	n/a	8/15/2024	0.053	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02721	n/a	8/14/2024	0.37	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02721	n/a	8/14/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02721	n/a	8/14/2024	0.16	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02721	n/a	8/13/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02721	n/a	8/15/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-57	0.02721	n/a	8/15/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02721	n/a	8/15/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-14	110	n/a	8/14/2024	100	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-15	110	n/a	8/14/2024	98	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-16	110	n/a	8/14/2024	97.5	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-17	110	n/a	8/15/2024	71.2	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-18	110	n/a	8/14/2024	139	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-19	110	n/a	8/14/2024	118	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	110	n/a	8/14/2024	141	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-25	110	n/a	8/13/2024	88.7	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-33	110	n/a	8/15/2024	99.2	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-57	110	n/a	8/15/2024	98.3	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	110	n/a	8/15/2024	104	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Chloride (mg/L)	PZ-14	5	n/a	8/14/2024	4.4	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-15	5	n/a	8/14/2024	6.1	Yes	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-16	5	n/a	8/14/2024	5.9	Yes	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-17	5	n/a	8/15/2024	1.3	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-18	5	n/a	8/14/2024	4.2	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-19	5	n/a	8/14/2024	2.5	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-23A	5	n/a	8/14/2024	2.8	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-25	5	n/a	8/13/2024	1.6	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-33	5	n/a	8/15/2024	2.9	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-57	5	n/a	8/15/2024	2	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-7D	5	n/a	8/15/2024	3.3	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	8/14/2024	0.065J	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	8/13/2024	0.12	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-57	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	8/14/2024	7.52	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	8/14/2024	7.11	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	8/14/2024	7.15	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	8/15/2024	7.35	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	8/14/2024	6.92	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	8/14/2024	6.9	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	8/14/2024	6.75	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	8/13/2024	7.06	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	8/15/2024	7.07	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-57	9.48	6.96	8/15/2024	7.1	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	8/15/2024	7.05	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	5.898	n/a	8/14/2024	17.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	5.898	n/a	8/14/2024	78.4	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	5.898	n/a	8/14/2024	38.8	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	5.898	n/a	8/15/2024	18.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	5.898	n/a	8/14/2024	94.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	5.898	n/a	8/14/2024	61.7	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	5.898	n/a	8/14/2024	43.4	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	5.898	n/a	8/13/2024	34.8	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	5.898	n/a	8/15/2024	31.6	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-57	5.898	n/a	8/15/2024	59.7	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	5.898	n/a	8/15/2024	39	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-14	307.1	n/a	8/14/2024	284	No	80	0	None	No	0.0007523		Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-15	307.1	n/a	8/14/2024	342	Yes	80	0	None	No	0.0007523		Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	PZ-16	307.1	n/a	8/14/2024	311	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-17	307.1	n/a	8/15/2024	245	No	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-18	307.1	n/a	8/14/2024	468	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-19	307.1	n/a	8/14/2024	436	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	307.1	n/a	8/14/2024	436	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-25	307.1	n/a	8/13/2024	273	No	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-33	307.1	n/a	8/15/2024	341	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-57	307.1	n/a	8/15/2024	348	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	307.1	n/a	8/15/2024	350	Yes	80	0		None	No	0.0007523	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	PZ-17	-0.02803	-106	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005833	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.009628	-99	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02597	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.155	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.325	79	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.399	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2026	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2734	-128	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2348	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.633	145	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-1.999	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-8.534	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-2.043	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.11	-156	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.4398	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.5923	-137	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.58	-174	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-57	-13.94	-15	-14	Yes	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.429	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-33	-23.59	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	-9.993	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:35 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002707	-51	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-12	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	-0.02803	-106	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0	16	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02259	-78	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0007472	53	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.003383	-62	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005833	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.0006816	-44	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0.000503	28	81	No	20	30	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	6	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.009628	-99	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-57	-0.003921	-2	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02597	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.155	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-19	0.4626	12	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.325	79	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	0.8276	31	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	0.2963	14	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	1.558	78	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.399	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2026	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2734	-128	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.05859	-68	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03309	-52	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2348	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-32 (bg)	-0.0951	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01238	-51	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.01186	39	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01701	-74	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.008757	42	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.04786	-15	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	2	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.005203	24	98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.633	145	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-15	0.08429	4	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-1.999	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-8.534	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.4456	-31	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-2.043	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	-0.03331	-31	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	2.044	76	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.11	-156	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.4398	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.5923	-137	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-32 (bg)	-0.04882	-60	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.58	-174	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-57	-13.94	-15	-14	Yes	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.429	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-15	3.875	56	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-16	3.613	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-18	5.749	69	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-19	-4.498	-32	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-1D (bg)	2.87	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	3.289	63	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-2D (bg)	-0.4749	-6	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-2S	-0.514	-3	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-31 (bg)	0.5919	22	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-32 (bg)	3.296	62	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-33	-23.59	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-57	-15.87	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	-9.993	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:53 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0042	n/a	n/a	n/a	n/a	80	57.5	n/a	n/a	0.01652	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	n/a	72	87.5	n/a	n/a	0.02489	NP Inter(NDs)
Barium (mg/L)	0.04406	n/a	n/a	n/a	n/a	80	1.25	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	n/a	64	96.88	n/a	n/a	0.03752	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	n/a	n/a	80	30	n/a	n/a	0.01652	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	n/a	n/a	80	96.25	n/a	n/a	0.01652	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.598	n/a	n/a	n/a	n/a	78	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	n/a	n/a	84	46.43	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	80	83.75	n/a	n/a	0.01652	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	80	81.25	n/a	n/a	0.01652	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	72	91.67	n/a	n/a	0.02489	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	n/a	n/a	80	76.25	n/a	n/a	0.01652	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	80	100	n/a	n/a	0.01652	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	80	91.25	n/a	n/a	0.01652	NP Inter(NDs)

PLANT MITCHELL ASH POND GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.044	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.6	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Appendix IV - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/7/2025, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No 20	0.00287	0.0005814	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No 20	0.002781	0.0006769	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No 20	0.002869	0.0005881	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No 20	0.002543	0.0009403	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No 20	0.00291	0.0005046	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No 20	0.002872	0.0005724	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No 20	0.002804	0.0006402	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No 20	0.00276	0.0007438	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00089	0.006	No 20	0.002496	0.001041	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No 18	0.004768	0.0009829	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No 18	0.004311	0.001589	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No 18	0.004284	0.001646	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No 18	0.004761	0.001014	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00089	0.01	No 18	0.004514	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.0017	0.01	No 18	0.004113	0.001719	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.0013	0.01	No 18	0.00433	0.001545	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-7D	0.005	0.0012	0.01	No 18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02756	0.01528	2	No 20	0.0223	0.01281	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.0613	0.048	2	No 20	0.0574	0.01409	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0446	0.034	2	No 20	0.0414	0.01217	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07651	0.06432	2	No 20	0.07042	0.01073	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0273	0.023	2	No 20	0.0288	0.0119	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05721	0.05178	2	No 20	0.0545	0.004787	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04713	0.0364	2	No 20	0.04211	0.009979	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No 20	0.1065	0.00821	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.0753	0.04	2	No 19	0.056	0.01594	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-7D	0.008941	0.006524	2	No 20	0.007825	0.002259	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No 16	0.0004625	0.0001025	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No 16	0.000475	0.0001	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0013	0.1	No 20	0.003357	0.001877	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No 20	0.003215	0.002032	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No 20	0.004778	0.0009928	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No 20	0.004786	0.0009548	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002198	0.001377	0.1	No 20	0.0026	0.001421	20	Kaplan-Meier x^(1/3)		0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No 20	0.004835	0.0007379	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002122	0.0009544	0.1	No 20	0.003995	0.003663	25	Kaplan-Meier x^(1/3)		0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No 20	0.004615	0.001217	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0012	0.006	No 20	0.0039	0.001961	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No 20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No 20	0.003681	0.002072	70	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No 20	0.004805	0.0008721	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No 20	0.004605	0.001217	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.0008	0.006	No 20	0.003892	0.001971	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.001815	0.001108	0.006	No 20	0.001572	0.0009049	5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-33	0.005	0.0012	0.006	No 20	0.003891	0.001878	70	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.8097	0.296	5	No 20	0.6144	0.5295	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.018	0.7132	5	No 20	0.8786	0.2998	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8152	0.4462	5	No 20	0.6307	0.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.072	0.5867	5	No 19	0.8295	0.4146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.041	0.4465	5	No 18	0.7437	0.4911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.23	0.7296	5	No 20	0.9797	0.4405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.107	0.655	5	No 20	0.8812	0.3983	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.114	0.7235	5	No 20	0.919	0.3442	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9333	0.5495	5	No 20	0.7414	0.338	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6494	0.3031	5	No 20	0.4763	0.3049	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.07	4	No 21	0.09081	0.02298	66.67	None	No	0.01	NP (NDs)

Appendix IV - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/7/2025, 11:37 AM

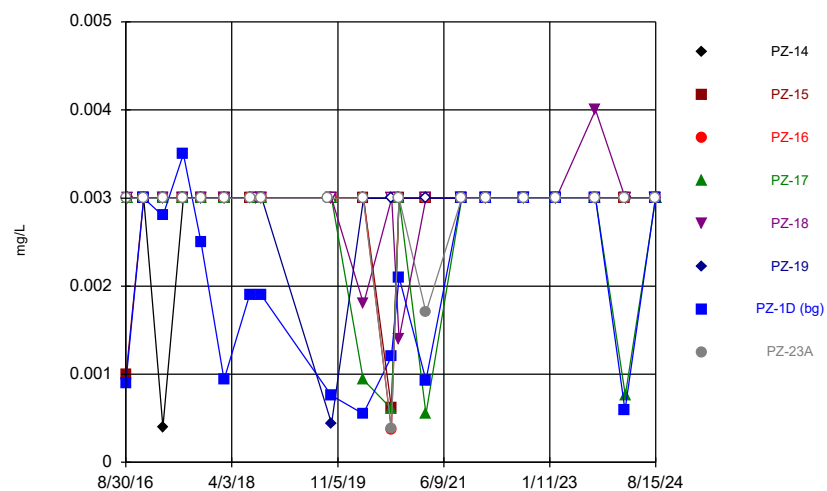
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.104	0.06682	4	No	21	0.1007	0.04292	33.33	Kaplan-Meier In(x)		0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	21	0.08448	0.02347	61.9	Kaplan-Meier No		0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1161	0.06035	4	No	21	0.1107	0.05915	33.33	Kaplan-Meier sqrt(x)		0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.086	4	No	21	0.09957	0.03118	61.9	Kaplan-Meier No		0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.065	4	No	21	0.1076	0.07015	9.524	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.08865	0.05694	4	No	21	0.09533	0.05266	38.1	Kaplan-Meier In(x)		0.01	Param.
Fluoride (mg/L)	PZ-25	0.2155	0.1447	4	No	21	0.1838	0.06924	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.074	4	No	21	0.1007	0.03873	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.1	0.056	4	No	21	0.08819	0.02917	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	20	0.0009525	0.0002124	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	20	0.0009541	0.0002055	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	20	0.0009236	0.0002434	90	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	20	0.0009521	0.0002142	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	20	0.0008628	0.0003357	85	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	20	0.0009069	0.0002868	90	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	20	0.0009521	0.0002144	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	20	0.02865	0.006037	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	20	0.01132	0.01406	35	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	20	0.007765	0.01142	20	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0025	0.04	No	20	0.005155	0.006823	10	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01407	0.01093	0.04	No	20	0.0125	0.002768	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.0011	0.04	No	20	0.02129	0.01364	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006798	0.005652	0.04	No	20	0.006225	0.00101	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0034	0.0024	0.04	No	20	0.00897	0.02732	5	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	18	0.00019	0.00003218	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	18	0.0001943	0.00002428	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	18	0.0001927	0.00003111	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	18	0.0001937	0.00002687	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	18	0.0001921	0.00003371	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	18	0.0001858	0.0000423	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	18	0.0001922	0.00002647	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	18	0.0001918	0.00003465	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	18	0.0001774	0.00005362	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	18	0.0001841	0.00004642	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	20	0.009525	0.002124	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0023	0.0019	0.1	No	20	0.002265	0.0006953	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	20	0.009085	0.002817	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	20	0.00955	0.002012	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	20	0.004635	0.001124	90	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	20	0.00484	0.0007155	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.003674	0.002316	0.05	No	20	0.00561	0.003437	35	Kaplan-Meier In(x)		0.01	Param.
Selenium (mg/L)	PZ-23A	0.01	0.0019	0.05	No	20	0.004925	0.00384	35	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	20	0.0035	0.001708	55	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	20	0.000953	0.0002102	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	20	0.0007605	0.0003761	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	20	0.0007502	0.0003927	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00025	0.002	No	20	0.0006465	0.0003677	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	20	0.0008581	0.0003467	85	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006392	0.0004798	0.002	No	20	0.0005595	0.0001404	5	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00018	0.002	No	20	0.000636	0.0004147	55	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	20	0.0006825	0.0002967	40	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00018	0.002	No	20	0.0007815	0.0003887	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0002	0.002	No	20	0.0007782	0.0003949	75	None	No	0.01	NP (NDs)

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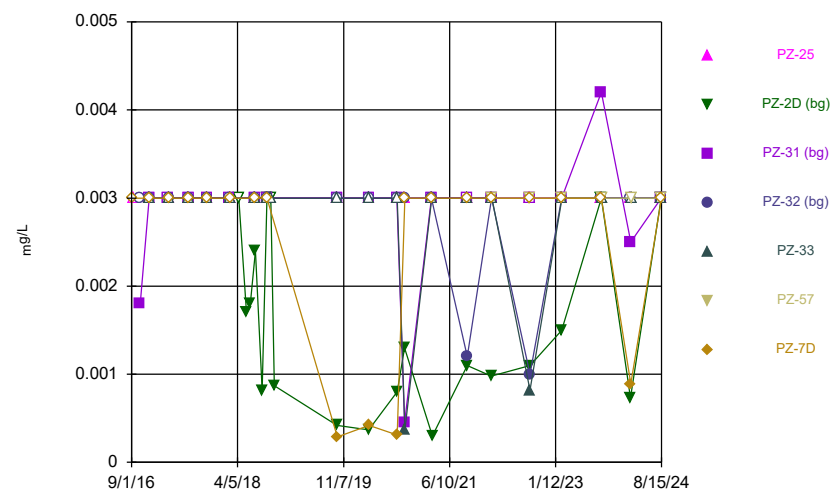
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FIGURE A.

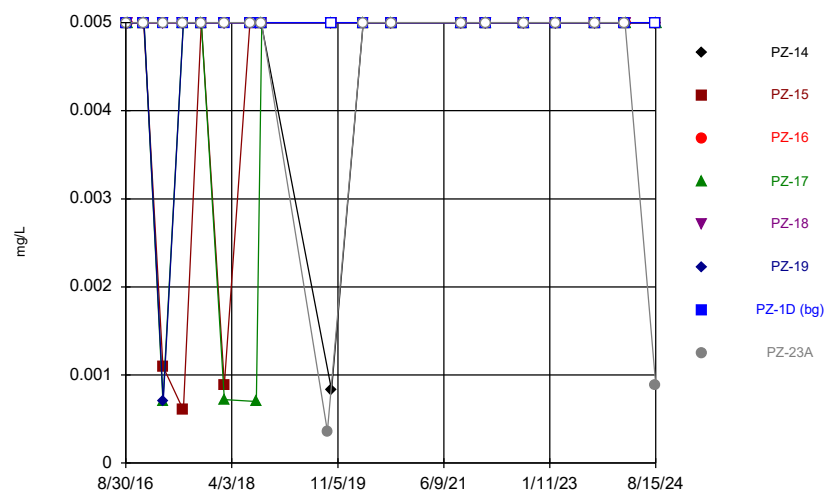
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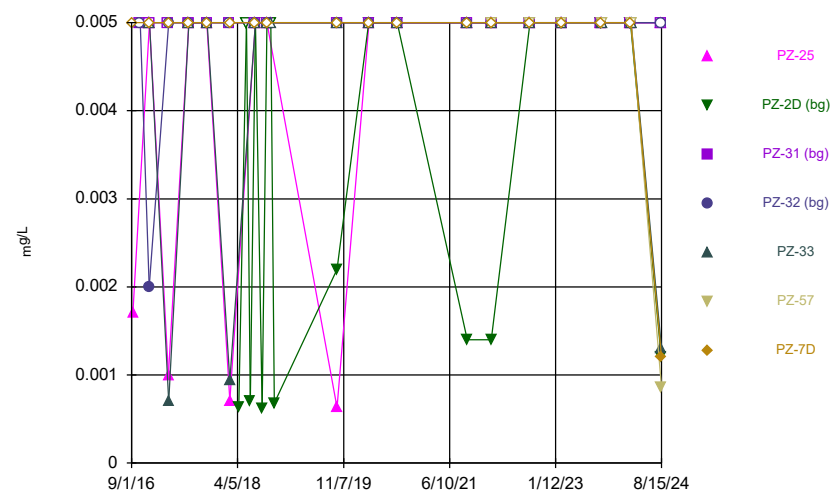
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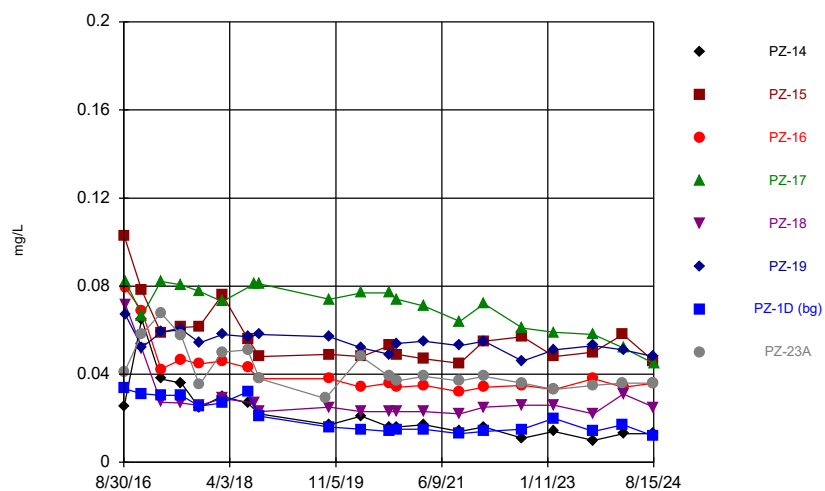
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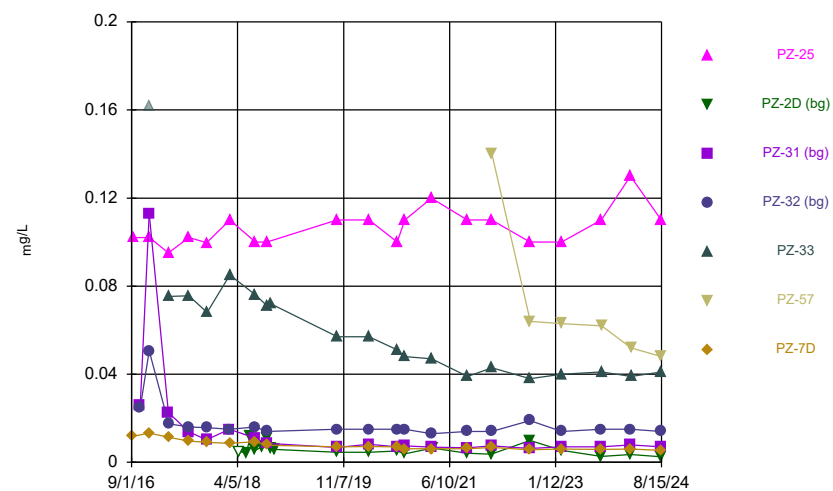


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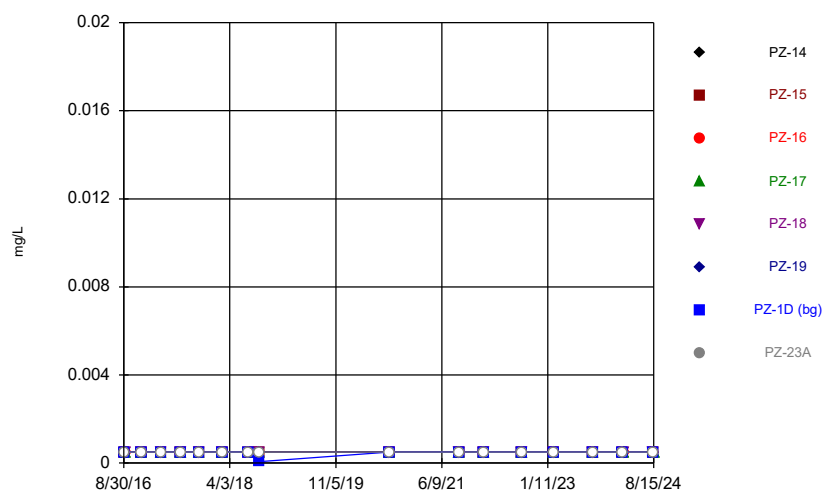
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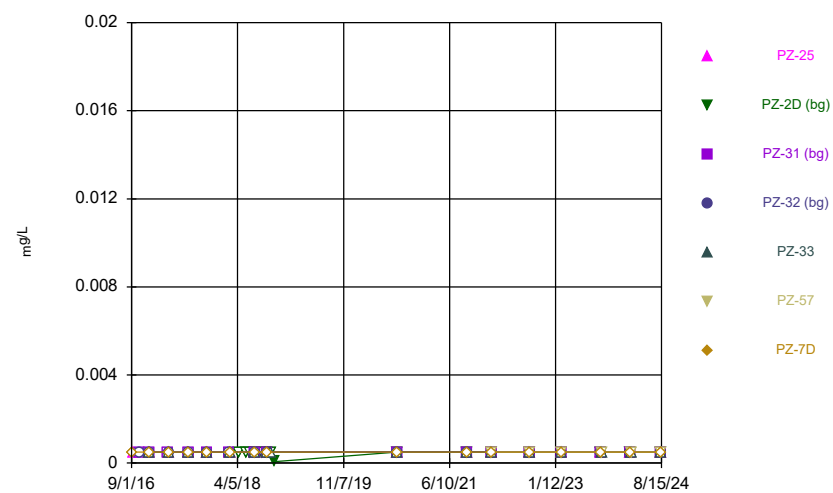
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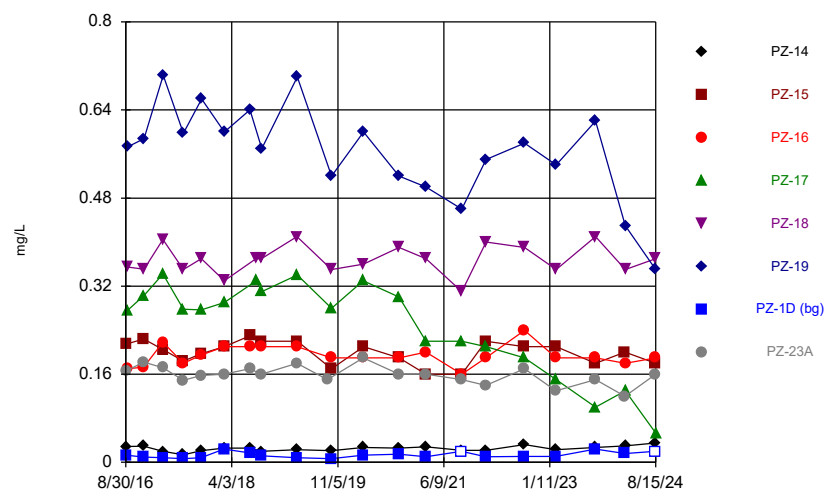
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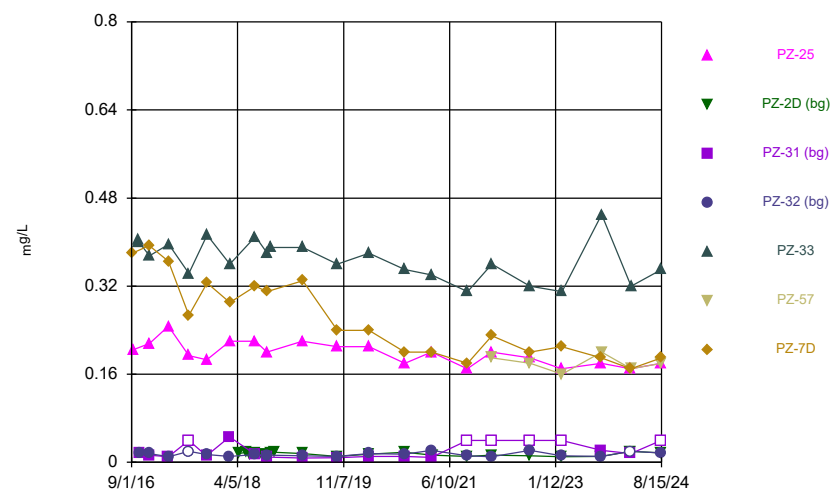
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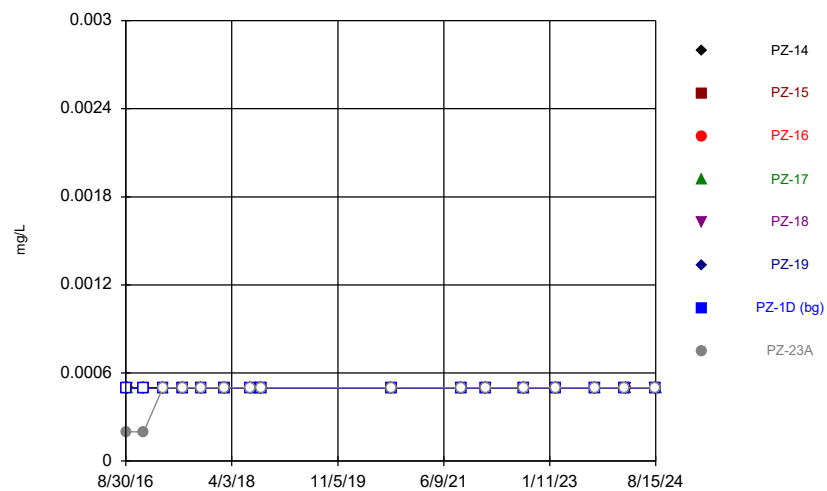
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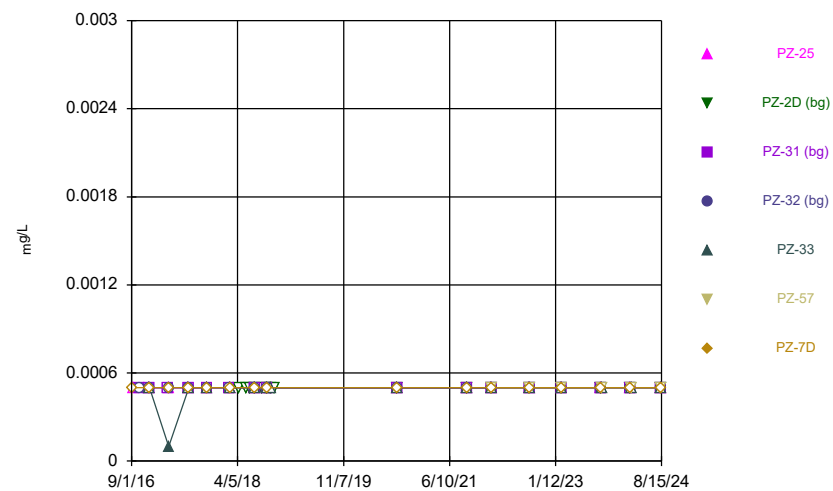
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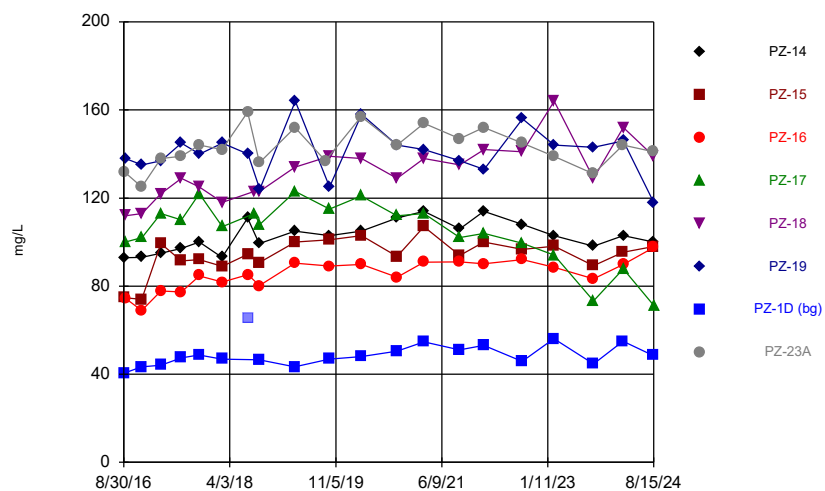
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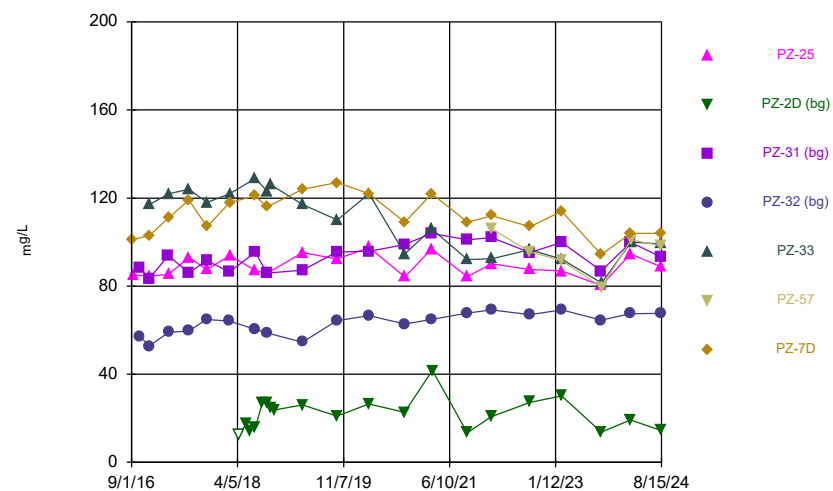
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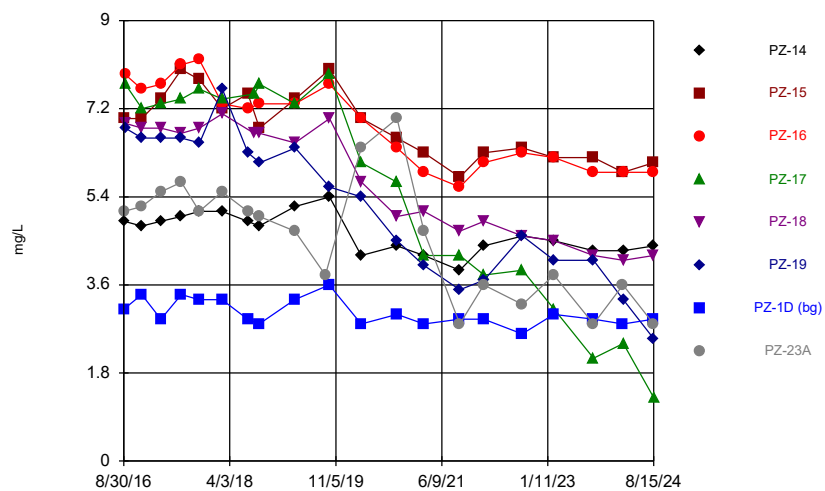
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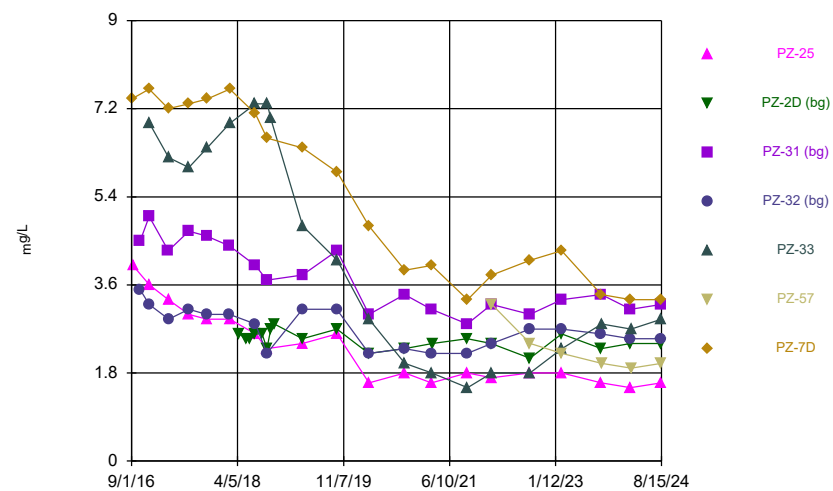
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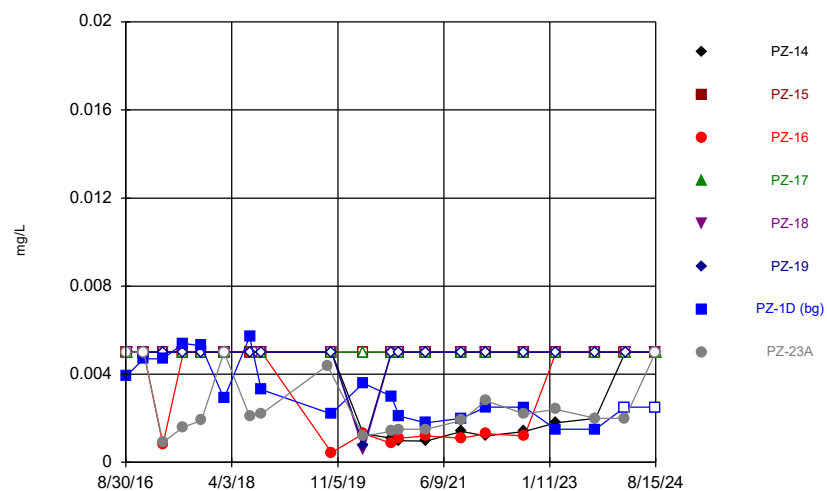
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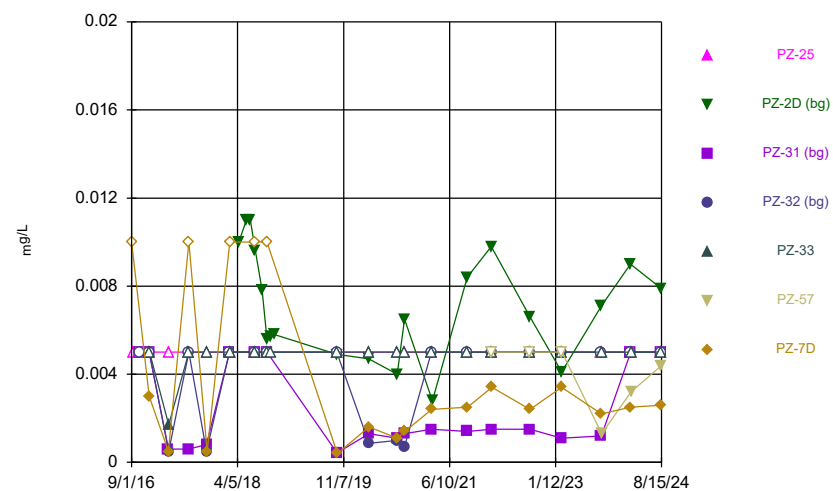
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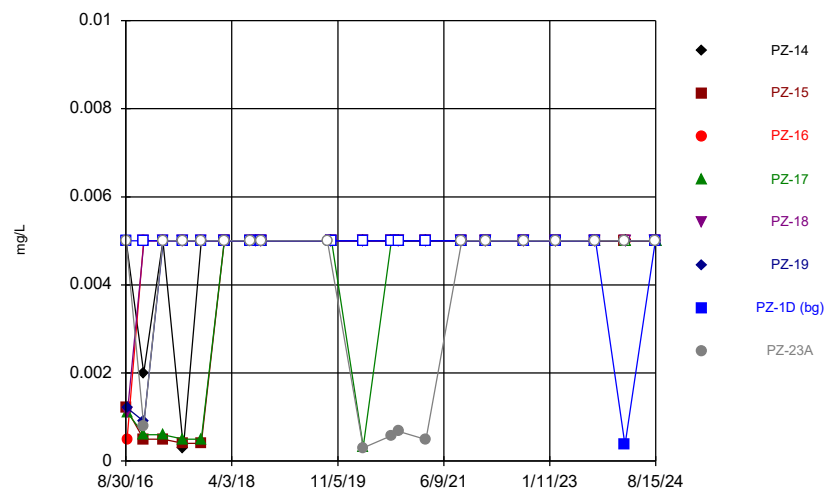
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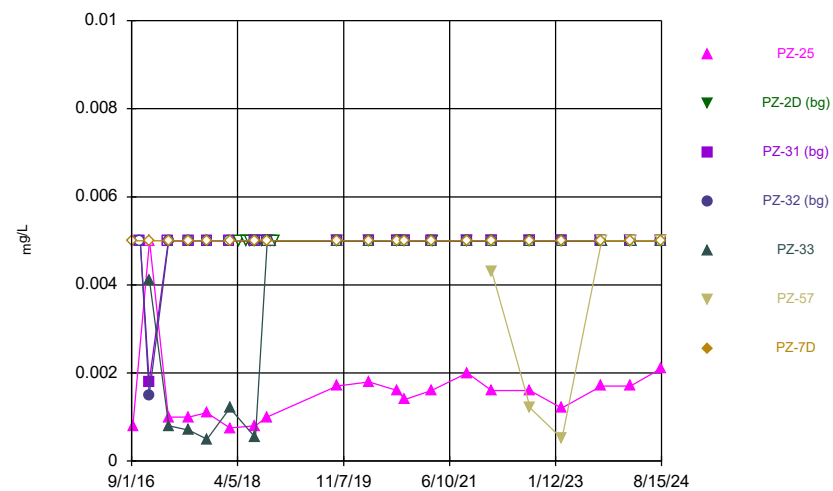
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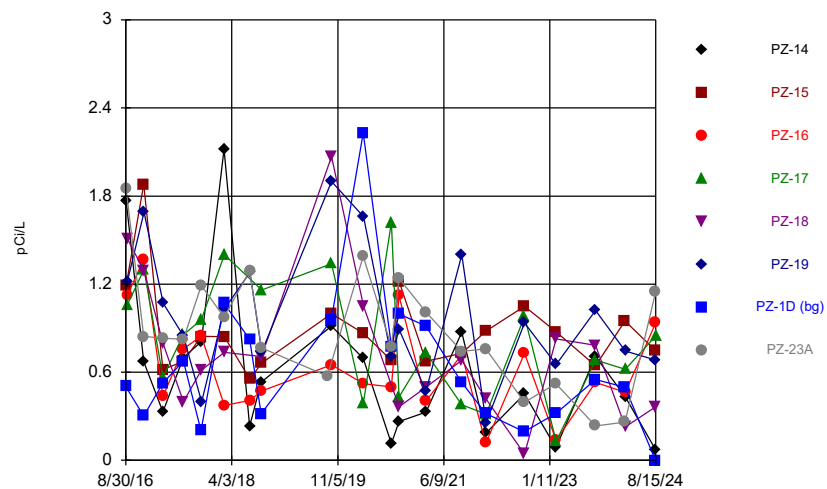
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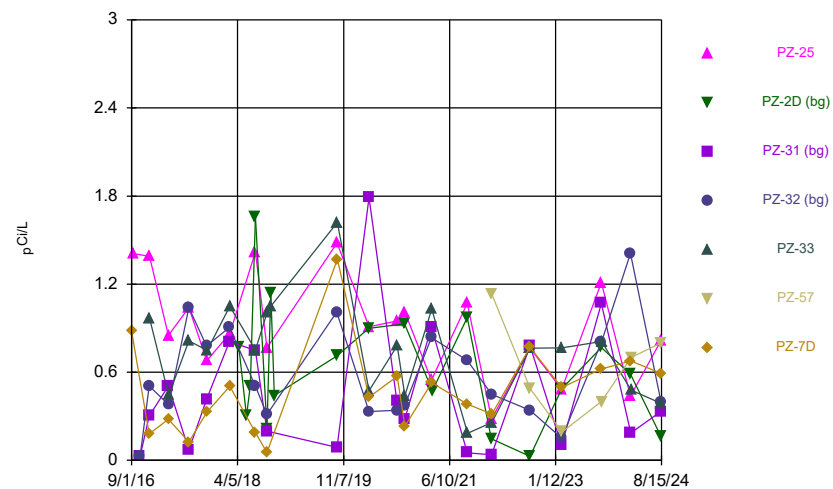
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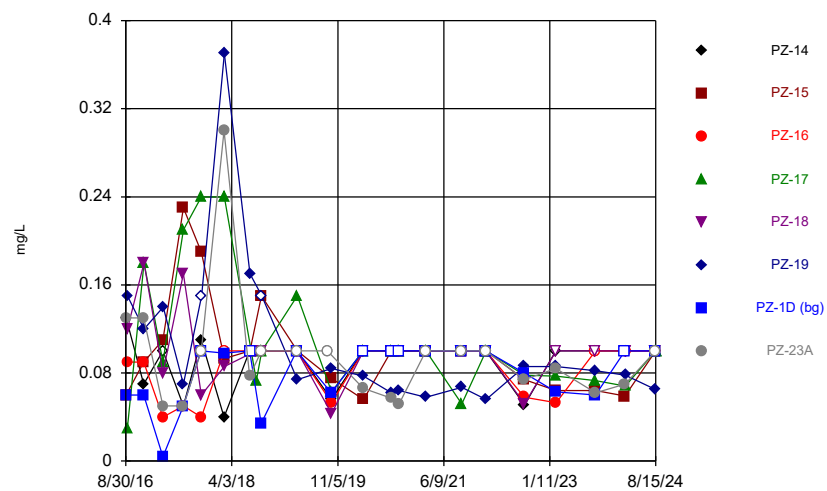
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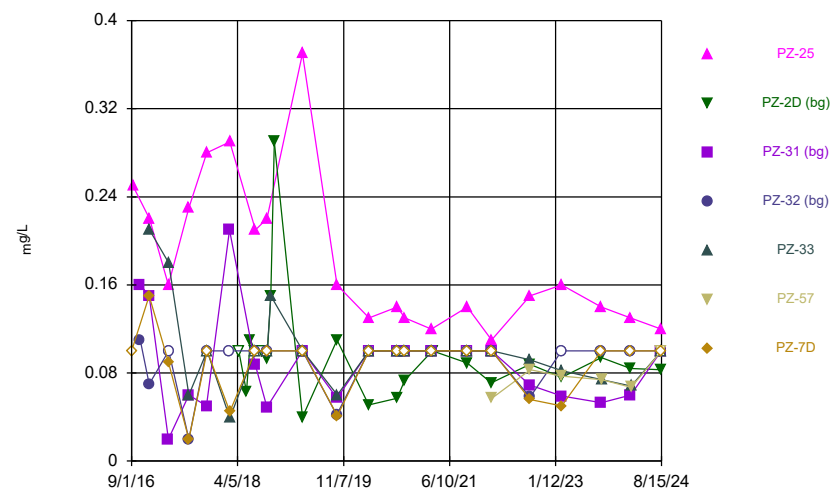
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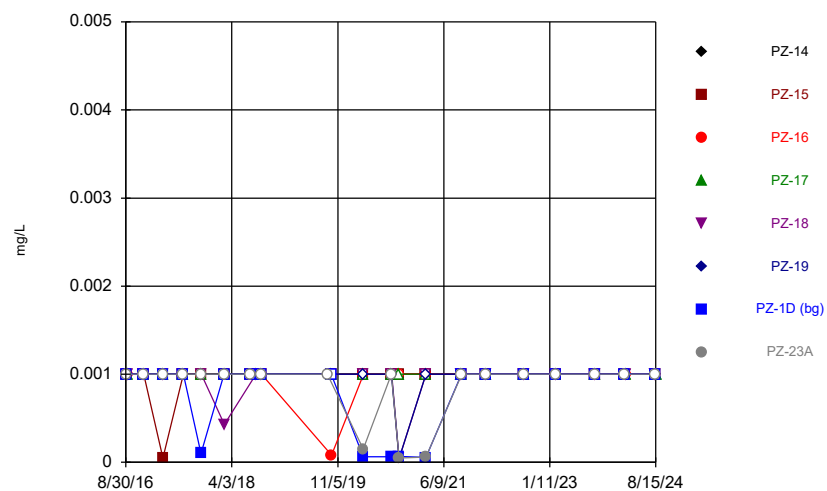
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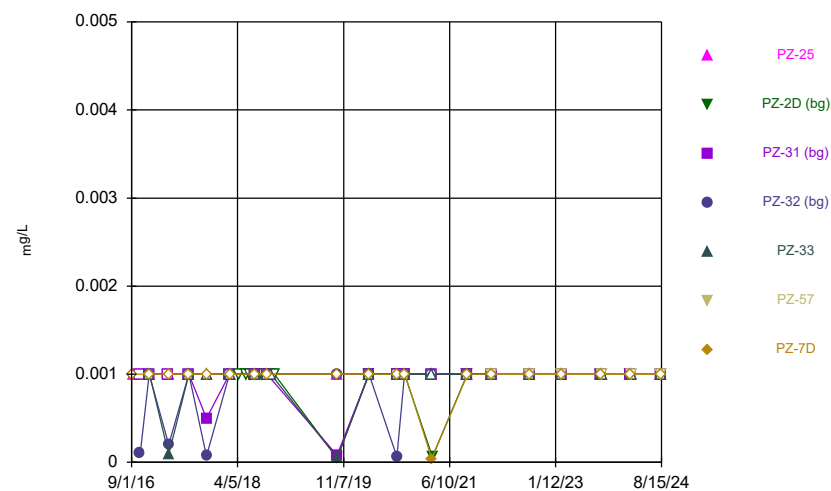
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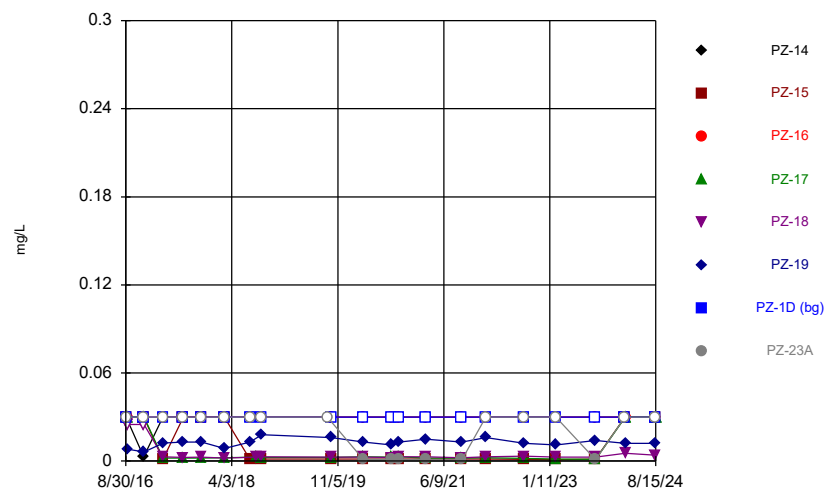
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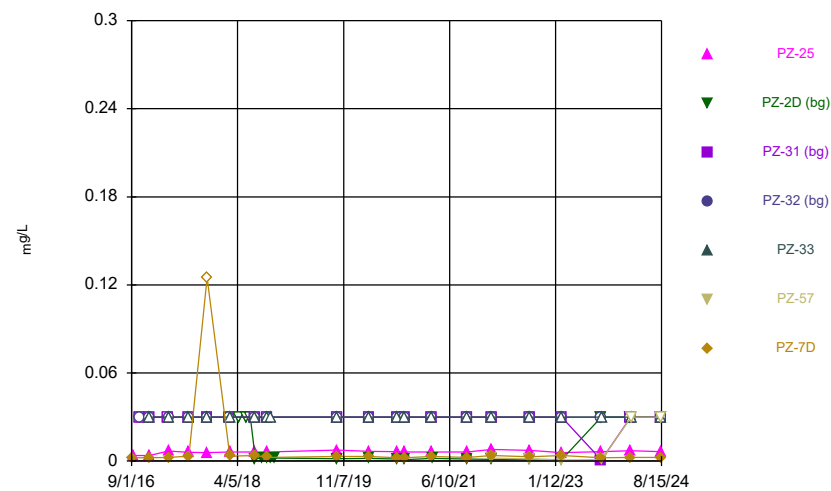
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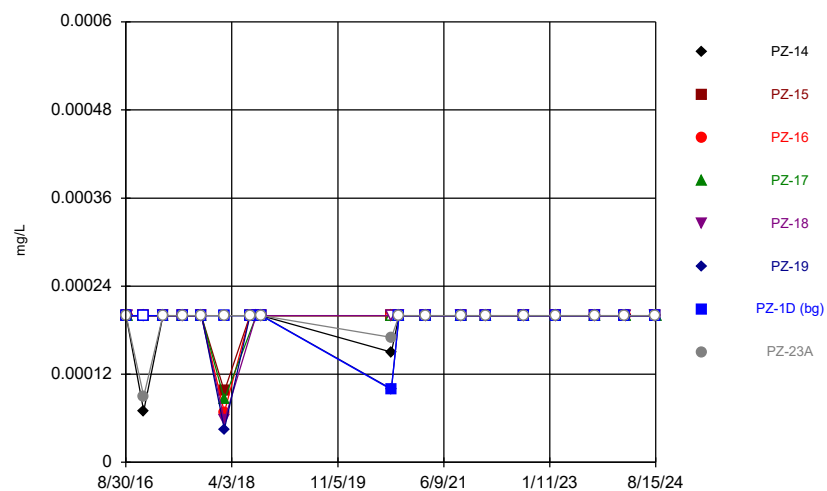
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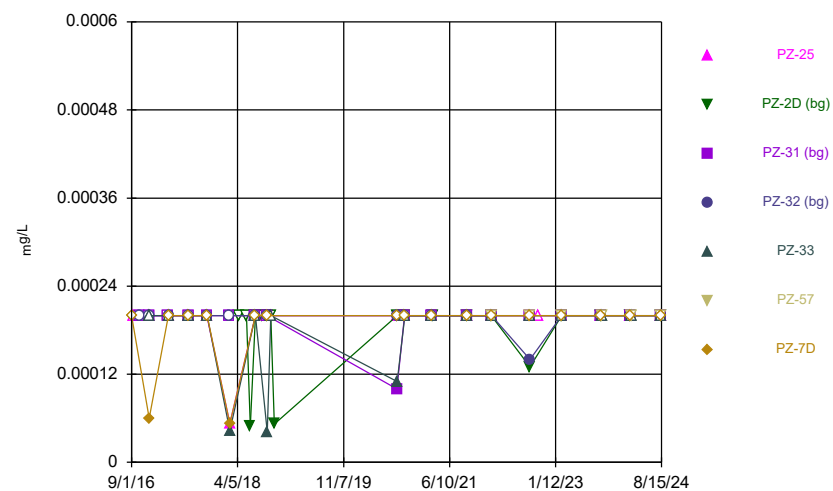
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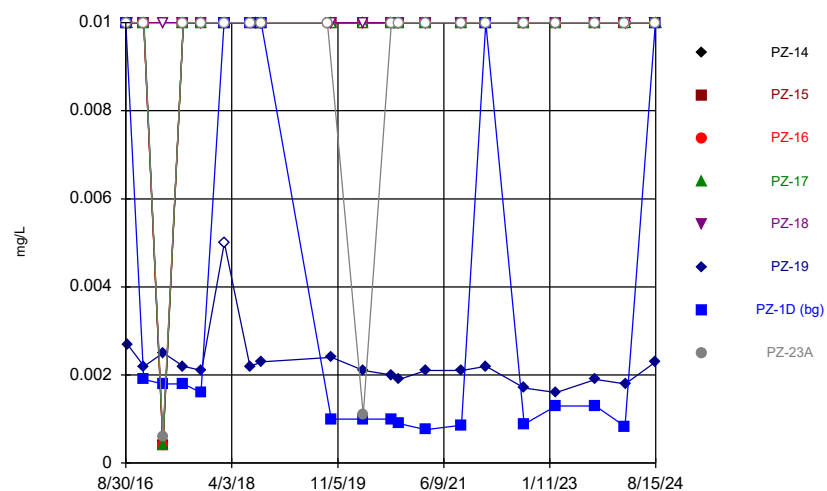
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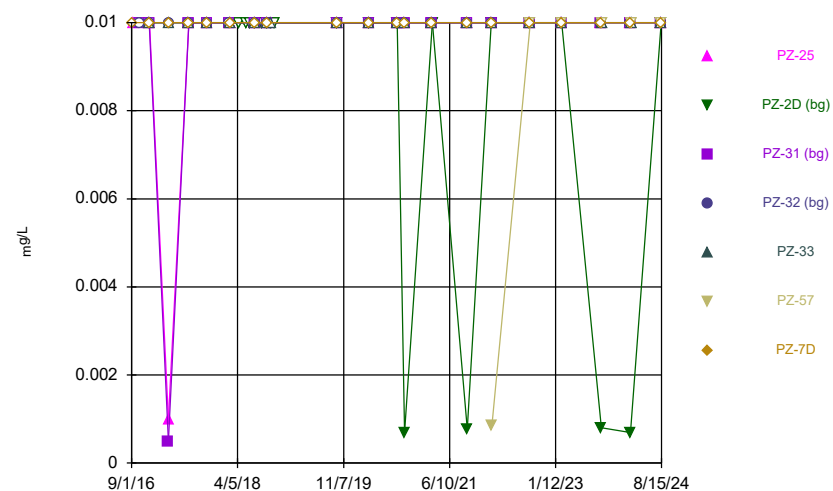
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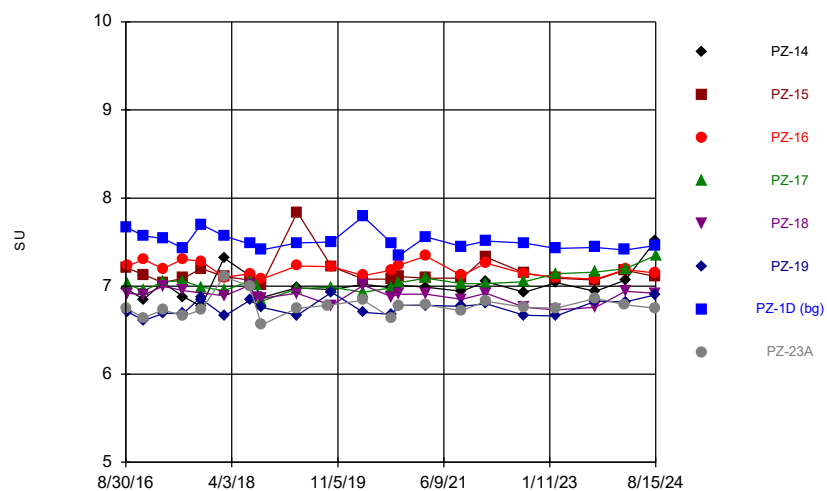
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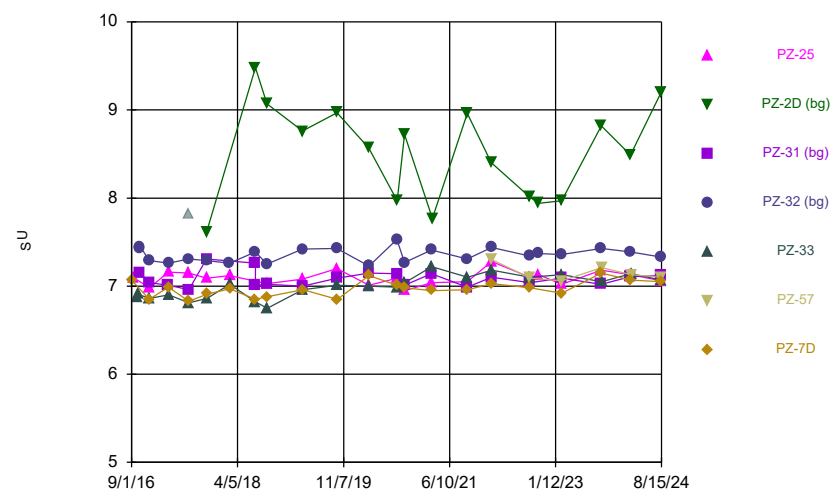
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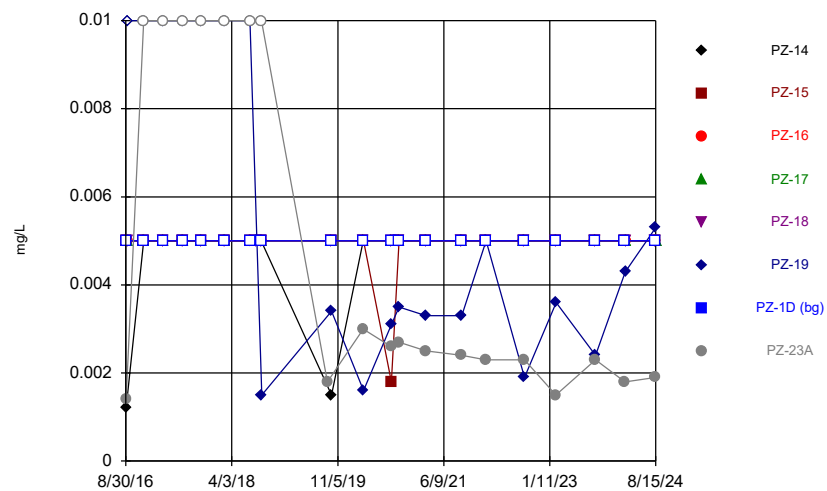
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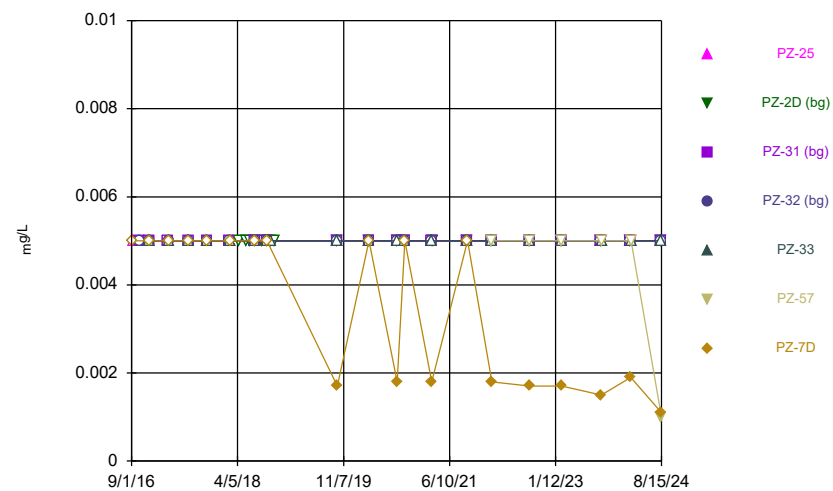
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



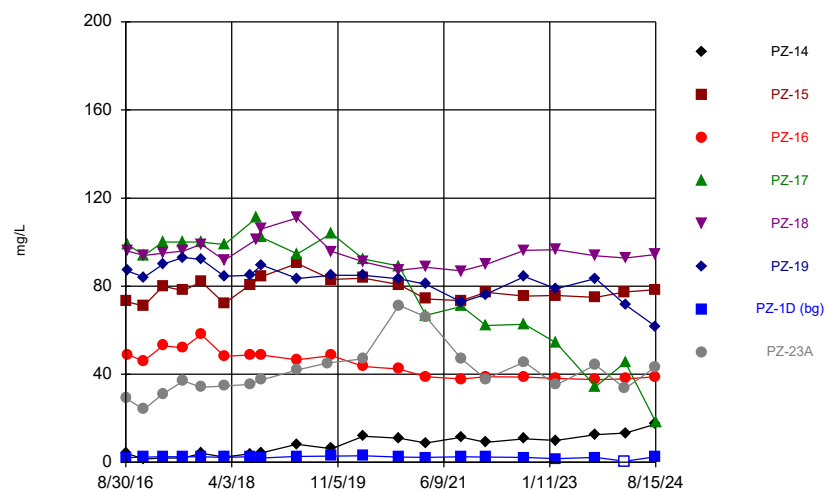
Constituent: Selenium Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



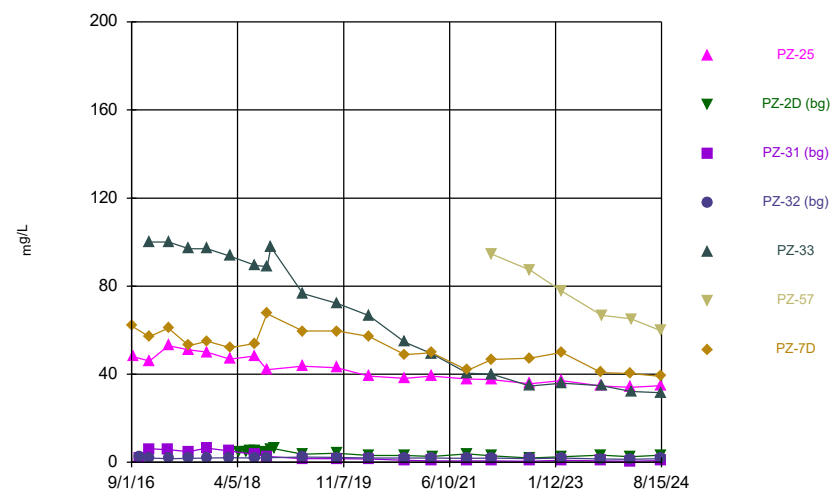
Constituent: Selenium Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



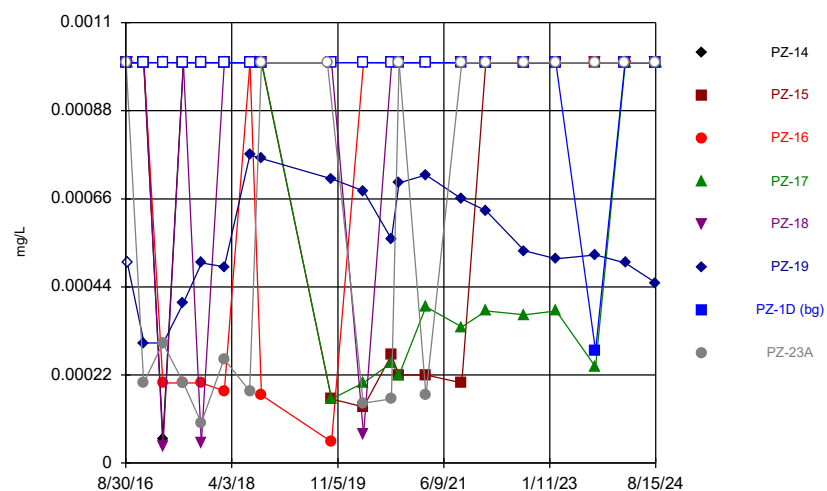
Constituent: Sulfate Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



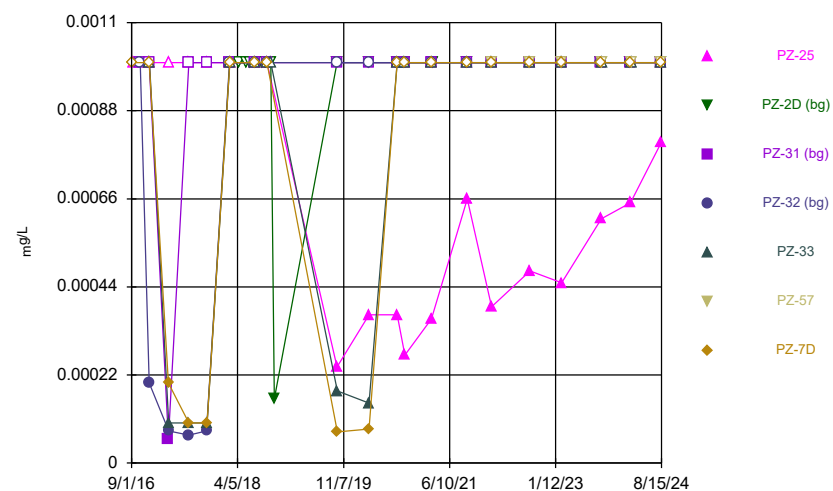
Constituent: Sulfate Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



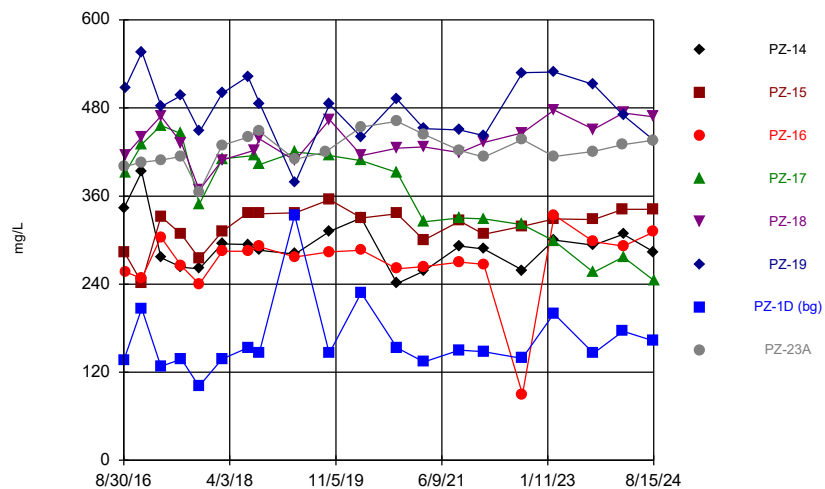
Constituent: Thallium Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



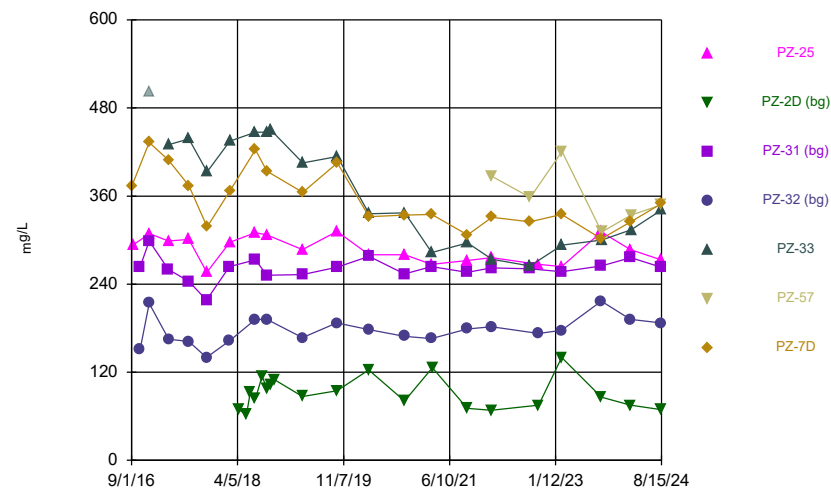
Constituent: Thallium Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:16 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0009 (J)	
8/31/2016	<0.003							<0.003
9/1/2016		0.001 (J)						
9/6/2016			<0.003					
9/7/2016				<0.003	<0.003	<0.003		
12/6/2016							<0.003	
12/7/2016	<0.003	<0.003	<0.003					<0.003
12/8/2016				<0.003	<0.003	<0.003		
3/21/2017	0.0004 (J)						0.0028 (J)	<0.003
3/22/2017		<0.003	<0.003	<0.003	<0.003			
3/23/2017						<0.003		
7/11/2017	<0.003		<0.003				0.0035	<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003		
10/17/2017							0.0025 (J)	
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003
10/19/2017						<0.003		
2/20/2018	<0.003						0.00094 (J)	<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003		
7/11/2018	<0.003						0.0019 (J)	<0.003
7/12/2018		<0.003	<0.003			<0.003		
8/15/2018					<0.003			
8/16/2018				<0.003				
9/12/2018	<0.003						0.0019 (J)	
9/13/2018		<0.003	<0.003		<0.003			<0.003
9/14/2018				<0.003		<0.003		
9/10/2019								<0.003
10/1/2019							0.00076 (X)	
10/2/2019	<0.003	<0.003	<0.003	<0.003				
10/3/2019					<0.003	0.00044 (X)		
3/24/2020							0.00055 (J)	
3/25/2020	<0.003			0.00094 (J)				<0.003
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003		
8/25/2020							0.0012 (J)	
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003		0.00038 (J)
8/27/2020					<0.003			
10/6/2020	<0.003		<0.003				0.0021 (J)	<0.003
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003		
3/3/2021	<0.003					<0.003	0.00093 (J)	0.0017 (J)
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003			
9/14/2021							<0.003	
9/15/2021	<0.003	<0.003	<0.003					<0.003
9/16/2021				<0.003	<0.003	<0.003		
1/25/2022							<0.003	
1/26/2022	<0.003	<0.003	<0.003					<0.003
1/27/2022				<0.003	<0.003	<0.003		
8/24/2022							<0.003	
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
2/14/2023	<0.003						<0.003	<0.003
2/15/2023		<0.003	<0.003		<0.003	<0.003		
2/16/2023				<0.003				
9/19/2023			<0.003				<0.003	
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.003					0.00059 (J)	<0.003
2/29/2024	<0.003		<0.003	0.00076 (J)	<0.003	<0.003		
8/13/2024							<0.003	
8/14/2024	<0.003	<0.003	<0.003		<0.003	<0.003		<0.003
8/15/2024				<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.003
9/8/2016	<0.003						
10/18/2016			0.0018 (J)	<0.003			
12/6/2016			<0.003				
12/7/2016				<0.003			<0.003
12/8/2016	<0.003				<0.003		
3/21/2017			<0.003				
3/22/2017	<0.003						<0.003
3/23/2017				<0.003	<0.003		
7/11/2017	<0.003		<0.003	<0.003			
7/12/2017					<0.003		<0.003
10/17/2017			<0.003	<0.003			
10/18/2017	<0.003						
10/19/2017					<0.003		<0.003
2/20/2018			<0.003	<0.003			
2/21/2018	<0.003				<0.003		<0.003
4/12/2018		<0.003					
5/23/2018		0.0017 (J)					
6/13/2018		0.0018 (J)					
7/11/2018		0.0024 (J)	<0.003	<0.003			
7/12/2018	<0.003				<0.003		<0.003
8/17/2018		0.00082 (J)					
9/12/2018		<0.003	<0.003				
9/13/2018	<0.003			<0.003			<0.003
9/14/2018					<0.003		
10/4/2018		<0.003			<0.003		
10/24/2018		0.00087 (J)					
10/1/2019				<0.003			
10/2/2019	<0.003	0.00042 (X)	<0.003				
10/3/2019					<0.003		0.00029 (X)
3/24/2020		0.00037 (J)					
3/25/2020	<0.003		<0.003	<0.003			
3/26/2020					<0.003		0.00042 (J)
8/25/2020			<0.003	<0.003			
8/26/2020	<0.003	0.0008 (J)			<0.003		0.00031 (J)
10/6/2020		0.0013 (J)	0.00045 (J)	<0.003			
10/7/2020	<0.003				0.00037 (J)		<0.003
3/3/2021	<0.003		<0.003	<0.003			
3/4/2021					<0.003		<0.003
3/8/2021		0.0003 (J)					
9/14/2021		0.0011 (J)		0.0012 (J)			
9/15/2021	<0.003		<0.003				
9/16/2021					<0.003		<0.003
1/25/2022		0.00098 (J)					
1/26/2022	<0.003		<0.003	<0.003			
1/27/2022					<0.003	<0.003	<0.003
8/24/2022	<0.003	0.0011 (J)	<0.003	0.001 (J)	0.00082 (J)		
8/25/2022							<0.003
8/26/2022						<0.003	
2/14/2023		0.0015 (J)	<0.003	<0.003			
2/15/2023	<0.003						<0.003
2/16/2023					<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.003	<0.003	0.0042	<0.003			
9/20/2023							<0.003
9/21/2023					<0.003	<0.003	
2/27/2024	<0.003	0.00073 (J)		<0.003			
2/28/2024			0.0025 (J)				0.00089 (J)
2/29/2024					<0.003	<0.003	
8/13/2024	<0.003	<0.003	<0.003	<0.003			
8/15/2024					<0.003	<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.005
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0011 (J)	<0.005	0.0007 (J)	<0.005			
3/23/2017						0.0007 (J)		
7/11/2017	<0.005		<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)		<0.005	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		0.00089 (J)	<0.005	0.00072 (J)	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				0.0007 (J)				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								0.00036 (X)
10/1/2019							<0.005	
10/2/2019	0.00083 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				<0.005
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		<0.005
8/27/2020					<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005
2/28/2024		<0.005					<0.005	<0.005
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		
8/13/2024							<0.005	
8/14/2024	<0.005	<0.005	<0.005		<0.005	<0.005		0.00089 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/15/2024				<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0017 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				0.002 (J)			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0007 (J)		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00071 (J)				0.00094 (J)		<0.005
4/12/2018		0.00064 (J)					
5/23/2018		<0.005					
6/13/2018		0.0007 (J)					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		0.00062 (J)					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		0.00068 (J)					
10/1/2019				<0.005			
10/2/2019	0.00063 (X)	0.0022 (X)	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		<0.005
9/14/2021		0.0014 (J)		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		0.0014 (J)					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	<0.005
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						<0.005
2/16/2023					<0.005	<0.005	
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	
2/27/2024	<0.005	<0.005		<0.005			
2/28/2024			<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/29/2024					<0.005	<0.005	
8/13/2024	<0.005	0.0012 (J)	<0.005	<0.005			
8/15/2024					0.0013 (J)	0.00086 (J)	0.0012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0335	
8/31/2016	0.0253							0.0407
9/1/2016		0.103						
9/6/2016			0.0794					
9/7/2016				0.0823	0.0717	0.067		
12/6/2016							0.0311	
12/7/2016	0.065	0.0781	0.0689					0.0581
12/8/2016				0.0668	0.0513	0.0522		
3/21/2017	0.0379						0.0305	0.0678
3/22/2017		0.0589	0.0423	0.0821	0.0273			
3/23/2017						0.0591		
7/11/2017	0.036		0.0467				0.0305	0.0574
7/12/2017		0.0613		0.0805	0.0269	0.0604		
10/17/2017							0.0255	
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258			0.0351
10/19/2017						0.0542		
2/20/2018	0.03						0.027	0.05
2/21/2018		0.076	0.046	0.073	0.029	0.058		
7/11/2018	0.027						0.032	0.051
7/12/2018		0.056	0.043			0.057		
8/15/2018					0.027			
8/16/2018				0.081				
9/12/2018	0.022						0.021	
9/13/2018		0.048	0.038		0.023			0.038
9/14/2018				0.081		0.058		
9/10/2019								0.029
10/1/2019							0.016	
10/2/2019	0.017	0.049	0.038	0.074				
10/3/2019					0.025	0.057		
3/24/2020							0.015	
3/25/2020	0.021			0.077				0.048
3/26/2020		0.048	0.034		0.023	0.052		
8/25/2020							0.014	
8/26/2020	0.016	0.053	0.036	0.077		0.049		0.039
8/27/2020					0.023			
10/6/2020	0.016		0.034				0.015	0.037
10/7/2020		0.049		0.074	0.023	0.054		
3/3/2021	0.017					0.055	0.015	0.039
3/4/2021		0.047	0.035	0.071	0.023			
9/14/2021							0.013	
9/15/2021	0.014	0.045	0.032					0.037
9/16/2021				0.064	0.022	0.053		
1/25/2022							0.014	
1/26/2022	0.016	0.055	0.034					0.039
1/27/2022				0.072	0.025	0.055		
8/24/2022							0.015	
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046		0.036
2/14/2023	0.014						0.02	0.033
2/15/2023		0.048	0.033		0.026	0.051		
2/16/2023				0.059				
9/19/2023			0.038				0.014	
9/20/2023	0.01	0.05		0.058	0.022	0.053		0.035

Time Series

Constituent: Barium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		0.058					0.017	0.036
2/29/2024	0.013		0.034	0.052	0.031	0.051		
8/13/2024							0.012	
8/14/2024	0.013	0.046	0.036		0.025	0.048		0.036
8/15/2024				0.045				

Time Series

Constituent: Barium (mg/L) Analysis Run 9/24/2024 4:17 PM
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0117
9/8/2016	0.102						
10/18/2016			0.0257	0.0248			
12/6/2016			0.113				
12/7/2016				0.0506			0.0133
12/8/2016	0.102				0.162 (o)		
3/21/2017			0.0226				
3/22/2017	0.0951						0.0114
3/23/2017				0.0175	0.0753		
7/11/2017	0.102		0.0139	0.0161			
7/12/2017					0.0756		0.0097 (J)
10/17/2017			0.0103	0.0158			
10/18/2017	0.0997						
10/19/2017					0.0681		0.0091 (J)
2/20/2018			0.015	0.015			
2/21/2018	0.11				0.085		0.0086 (J)
4/12/2018		<0.01					
5/23/2018		0.0042 (J)					
6/13/2018		0.012					
7/11/2018		0.0056 (J)	0.011	0.016			
7/12/2018	0.1				0.076		0.0093 (J)
8/17/2018		0.0069 (J)					
9/12/2018		0.011	0.0087 (J)				
9/13/2018	0.1			0.014			0.0078 (J)
9/14/2018					0.071		
10/4/2018		0.0066 (J)			0.072		
10/24/2018		0.0059 (J)					
10/1/2019				0.015			
10/2/2019	0.11	0.0046 (X)	0.0067 (X)				
10/3/2019					0.057		0.007 (X)
3/24/2020		0.0046 (J)					
3/25/2020	0.11		0.0082 (J)	0.015			
3/26/2020					0.057		0.0072 (J)
8/25/2020			0.0071 (J)	0.015			
8/26/2020	0.1	0.0051 (J)			0.051		0.007 (J)
10/6/2020		0.0039 (J)	0.0075 (J)	0.015			
10/7/2020	0.11				0.048		0.0061 (J)
3/3/2021	0.12		0.0069	0.013			
3/4/2021					0.047		0.0061
3/8/2021		0.0065					
9/14/2021		0.0041 (J)		0.014			
9/15/2021	0.11		0.0066				
9/16/2021					0.039		0.0062
1/25/2022		0.0037 (J)					
1/26/2022	0.11		0.0075	0.014			
1/27/2022					0.043	0.14	0.0068
8/24/2022	0.1	0.01	0.0063	0.019	0.038		
8/25/2022							0.0058
8/26/2022						0.064	
2/14/2023		0.0055	0.0071	0.014			
2/15/2023	0.1						0.006
2/16/2023					0.04	0.063	

Time Series

Constituent: Barium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.11	0.0027 (J)	0.0071	0.015			
9/20/2023							0.0059
9/21/2023					0.041	0.062	
2/27/2024	0.13	0.0035 (J)		0.015			
2/28/2024			0.0079				0.006
2/29/2024					0.039	0.052	
8/13/2024	0.11	0.0025 (J)	0.0071	0.014			
8/15/2024					0.041	0.048	0.0055

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							<0.0005
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					<0.0005
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						6.1E-05 (J)	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
2/28/2024		<0.0005					<0.0005	<0.0005
2/29/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
8/13/2024							<0.0005	
8/14/2024	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
8/15/2024				<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	<0.0005		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		6E-05 (J)					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	
2/27/2024	<0.0005	<0.0005		<0.0005			
2/28/2024			<0.0005				<0.0005
2/29/2024					<0.0005	<0.0005	
8/13/2024	<0.0005	<0.0005	<0.0005	<0.0005			
8/15/2024					<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0132 (J)	
8/31/2016	0.0285 (J)							0.166
9/1/2016		0.215						
9/6/2016			0.17					
9/7/2016				0.276	0.355	0.573		
12/6/2016							0.0096 (J)	
12/7/2016	0.0292 (J)	0.224	0.173					0.182
12/8/2016				0.303	0.351	0.588		
3/21/2017	0.0198 (J)						0.0082 (J)	0.172
3/22/2017		0.205	0.218	0.342	0.405			
3/23/2017						0.703		
7/11/2017	0.0137 (J)		0.18				0.0067 (J)	0.149
7/12/2017		0.184		0.278	0.35	0.598		
10/17/2017							0.0083 (J)	
10/18/2017	0.0212 (J)	0.197	0.195	0.277	0.37			0.158
10/19/2017						0.66		
2/20/2018	0.026 (J)						0.024 (J)	0.16
2/21/2018		0.21	0.21	0.29	0.33	0.6		
7/11/2018	0.026 (J)						0.017 (J)	0.17
7/12/2018		0.23	0.21			0.64		
8/15/2018					0.37			
8/16/2018				0.33				
9/12/2018	0.02 (J)						0.012 (J)	
9/13/2018		0.22	0.21		0.37			0.16
9/14/2018				0.31		0.57		
3/26/2019							0.0082	
3/27/2019	0.023		0.21		0.41			0.18
3/28/2019		0.22		0.34		0.7		
9/10/2019								0.15
10/1/2019							0.0064 (X)	
10/2/2019	0.021 (X)	0.17	0.19	0.28				
10/3/2019					0.35	0.52		
3/24/2020							0.013 (J)	
3/25/2020	0.027 (J)			0.33				0.19
3/26/2020		0.21	0.19		0.36	0.6		
10/6/2020	0.026 (J)		0.19				0.015 (J)	0.16
10/7/2020		0.19		0.3	0.39	0.52		
3/3/2021	0.028 (J)					0.5	0.01 (J)	0.16
3/4/2021		0.16	0.2	0.22	0.37			
9/14/2021							<0.04	
9/15/2021	0.022 (J)	0.16	0.16					0.15
9/16/2021				0.22	0.31	0.46		
1/25/2022							0.01 (J)	
1/26/2022	0.022 (J)	0.22	0.19					0.14
1/27/2022				0.21	0.4	0.55		
8/24/2022							0.011 (J)	
8/25/2022	0.032 (J)	0.21	0.24	0.19 (J)	0.39	0.58		0.17 (J)
2/14/2023	0.023 (J)						0.011 (J)	0.13
2/15/2023		0.21	0.19		0.35	0.54		
2/16/2023				0.15				
9/19/2023			0.19				0.024 (J)	
9/20/2023	0.027 (J)	0.18		0.1	0.41	0.62		0.15

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		0.2					0.016 (J)	0.12
2/29/2024	0.03 (J)		0.18	0.13	0.35	0.43		
8/13/2024							<0.04	
8/14/2024	0.035 (J)	0.18	0.19		0.37	0.35		0.16
8/15/2024				0.053				

Time Series

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.379
9/8/2016	0.204						
10/5/2016					0.404		
10/10/2016					0.401		
10/18/2016			0.0174 (J)	0.0156 (J)			
12/6/2016			0.0133 (J)				
12/7/2016				0.0157 (J)			0.394
12/8/2016	0.216				0.375		
3/21/2017			0.0103 (J)				
3/22/2017	0.247						0.365
3/23/2017				0.0103 (J)	0.396		
7/11/2017	0.194		<0.04	<0.04			
7/12/2017					0.343		0.267
10/17/2017			0.0116 (J)	0.0142 (J)			
10/18/2017	0.186						
10/19/2017					0.413		0.326
2/20/2018			0.046 (J)	0.011 (J)			
2/21/2018	0.22				0.36		0.29
4/12/2018		0.016 (J)					
5/23/2018		0.018 (J)					
6/13/2018		0.014 (J)					
7/11/2018		0.017 (J)	0.014 (J)	0.014 (J)			
7/12/2018	0.22				0.41		0.32
8/17/2018		0.015 (J)					
9/12/2018		0.013 (J)	0.0098 (J)				
9/13/2018	0.2			0.013 (J)			0.31
9/14/2018					0.38		
10/4/2018		0.016 (J)			0.39		
10/24/2018		0.018 (J)					
3/26/2019			0.0076				
3/27/2019	0.22	0.016		0.012			
3/28/2019					0.39		0.33
10/1/2019				0.011 (X)			
10/2/2019	0.21	0.011 (X)	0.0084 (X)				
10/3/2019					0.36		0.24
3/24/2020		0.015 (J)					
3/25/2020	0.21		0.011 (J)	0.016 (J)			
3/26/2020					0.38		0.24
10/6/2020		0.018 (J)	0.011 (J)	0.015 (J)			
10/7/2020	0.18				0.35		0.2
3/3/2021	0.2		0.0087 (J)	0.022 (J)			
3/4/2021					0.34		0.2
3/8/2021		0.013 (J)					
9/14/2021		0.011 (J)		0.012 (J)			
9/15/2021	0.17		<0.04				
9/16/2021					0.31		0.18
1/25/2022		0.013 (J)					
1/26/2022	0.2		<0.04	0.01 (J)			
1/27/2022					0.36	0.19	0.23
8/24/2022	0.19	0.012 (J)	<0.04	0.022 (J)	0.32		
8/25/2022							0.2
8/26/2022						0.18	

Time Series

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.01 (J)	<0.04	0.012 (J)			
2/15/2023	0.17						0.21
2/16/2023					0.31	0.16	
9/19/2023	0.18	0.011 (J)	0.022 (J)	0.011 (J)			
9/20/2023							0.19
9/21/2023					0.45	0.2	
2/27/2024	0.17	<0.04		<0.04			
2/28/2024			0.016 (J)				0.17
2/29/2024					0.32	0.17	
8/13/2024	0.18	0.017 (J)	<0.04	0.017 (J)			
8/15/2024					0.35	0.18	0.19

Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							0.0002 (J)
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					0.0002 (J)
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						<0.0005	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
2/28/2024		<0.0005					<0.0005	<0.0005
2/29/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
8/13/2024							<0.0005	
8/14/2024	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
8/15/2024				<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	0.0001 (J)		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		<0.0005					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	
2/27/2024	<0.0005	<0.0005		<0.0005			
2/28/2024			<0.0005				<0.0005
2/29/2024					<0.0005	<0.0005	
8/13/2024	<0.0005	<0.0005	<0.0005	<0.0005			
8/15/2024					<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							40.4	
8/31/2016	92.9							132
9/1/2016		74.8						
9/6/2016			74.6					
9/7/2016				100	112	138		
12/6/2016							43.3	
12/7/2016	93.1	74	68.9					125
12/8/2016				102	113	135		
3/21/2017	95						44.1	138
3/22/2017		99.3	77.8	113	122			
3/23/2017						137		
7/11/2017	97.1		77.3				47.4	139
7/12/2017		91.4		110	129	145		
10/17/2017							48.7	
10/18/2017	100	92	84.7	122	125			144
10/19/2017						140		
2/20/2018	93.1						46.8	142
2/21/2018		89	81.8	107	118	145		
7/11/2018	111						65.3 (o)	159
7/12/2018		94.5	85.2			140		
8/15/2018					123			
8/16/2018				113				
9/12/2018	99.3						46.6	
9/13/2018		90.8	80.2		123			136
9/14/2018				108		124		
3/26/2019							43.3	
3/27/2019	105		90.5		134			152
3/28/2019		100		123		164		
9/10/2019								137
10/1/2019							46.8	
10/2/2019	103	101	89.1	115				
10/3/2019					139	125		
3/24/2020							48	
3/25/2020	105			121				157
3/26/2020		103	89.8		138	158		
10/6/2020	111		84				50.5	144
10/7/2020		93.5		112	129	144		
3/3/2021	114					142	54.7	154
3/4/2021		107	90.9	113	138			
9/14/2021							51	
9/15/2021	106	94	91					147
9/16/2021				102	135	137		
1/25/2022							53.1	
1/26/2022	114	100	90.1					152
1/27/2022				104	142	133		
8/24/2022							45.8	
8/25/2022	108	96.7	92	99.5	141	156		145
2/14/2023	103						56.2	139
2/15/2023		98.1	88.5		164 (M1)	144		
2/16/2023				94.1				
9/19/2023			83.3				44.7	
9/20/2023	98.2	89.3		73.3	129	143		131

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		95.4					55	144
2/29/2024	103		89.9	87.8	152	146		
8/13/2024							48.5	
8/14/2024	100	98	97.5		139	118		141
8/15/2024				71.2				

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							101
9/8/2016	85.2						
10/18/2016			88.3	57.2			
12/6/2016			83.4				
12/7/2016				52.8			103
12/8/2016	84.5				117		
3/21/2017			94				
3/22/2017	85.3						111
3/23/2017				59.1	122		
7/11/2017	93		86	59.7			
7/12/2017					124		119
10/17/2017			91.6	64.9			
10/18/2017	87.6						
10/19/2017					118		107
2/20/2018			86.5	64.1			
2/21/2018	93.9				122		118
4/12/2018		<25					
5/23/2018		17.6 (J)					
6/13/2018		14.3					
7/11/2018		15.6	95.4	60.4			
7/12/2018	87.1				129		121
8/17/2018		27					
9/12/2018		26.9	86				
9/13/2018	85.8			58.7			116
9/14/2018					123		
10/4/2018		25			126		
10/24/2018		23.8					
3/26/2019			87.3				
3/27/2019	95.2	26.1		54.6			
3/28/2019					117		124
10/1/2019				64.3			
10/2/2019	92.3	21	95.5				
10/3/2019					110		127
3/24/2020		26.5					
3/25/2020	97.5		95.8	66.6			
3/26/2020					122		122
10/6/2020		22.7	98.8	62.8			
10/7/2020	84.2				94.7		109
3/3/2021	96.8		104	64.8 (M1)			
3/4/2021					106		122
3/8/2021		41.7					
9/14/2021		13.4		67.8			
9/15/2021	84.4		101				
9/16/2021					92		109
1/25/2022		20.7					
1/26/2022	90.2		102	69.2			
1/27/2022					92.5	106	112
8/24/2022	87.6	27.3	95.2	67.1	96.5		
8/25/2022							107
8/26/2022						95.5	
2/14/2023		30.2	99.9	69.3			
2/15/2023	86.9						114

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					92.2 (M1)	91.6	
9/19/2023	80.3	13.7	86.9	64.6			
9/20/2023							94.3
9/21/2023					81.4	79.5	
2/27/2024	94.6	19.2		67.5			
2/28/2024			99.9				104
2/29/2024					100	101	
8/13/2024	88.7	14.5	93.2	67.6			
8/15/2024					99.2	98.3	104

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							3.1	
8/31/2016	4.9							5.1
9/1/2016		7						
9/6/2016			7.9					
9/7/2016				7.7	6.9	6.8		
12/6/2016							3.4	
12/7/2016	4.8	7	7.6					5.2
12/8/2016				7.2	6.8	6.6		
3/21/2017	4.9						2.9	5.5
3/22/2017		7.4	7.7	7.3	6.8			
3/23/2017						6.6		
7/11/2017	5		8.1				3.4	5.7
7/12/2017		8		7.4	6.7	6.6		
10/17/2017							3.3	
10/18/2017	5.1	7.8	8.2	7.6	6.8			5.1
10/19/2017						6.5		
2/20/2018	5.1						3.3	5.5
2/21/2018		7.2	7.3	7.4	7.1	7.6		
7/11/2018	4.9						2.9	5.1
7/12/2018		7.5	7.2			6.3		
8/15/2018					6.7			
8/16/2018				7.5				
9/12/2018	4.8						2.8	
9/13/2018		6.8	7.3		6.7			5
9/14/2018				7.7		6.1		
3/26/2019							3.3	
3/27/2019	5.2		7.3		6.5			4.7
3/28/2019		7.4		7.3		6.4		
9/10/2019								3.8
10/1/2019							3.6	
10/2/2019	5.4	8	7.7	7.9				
10/3/2019					7	5.6		
3/24/2020							2.8	
3/25/2020	4.2			6.1				6.4
3/26/2020		7	7		5.7	5.4		
10/6/2020	4.4		6.4				3	7
10/7/2020		6.6		5.7	5	4.5		
3/3/2021	4.2					4	2.8	4.7
3/4/2021		6.3	5.9	4.2	5.1			
9/14/2021							2.9	
9/15/2021	3.9	5.8	5.6					2.8
9/16/2021				4.2	4.7	3.5		
1/25/2022							2.9	
1/26/2022	4.4	6.3	6.1					3.6
1/27/2022				3.8	4.9	3.7		
8/24/2022							2.6	
8/25/2022	4.6	6.4	6.3	3.9	4.6	4.6		3.2
2/14/2023	4.5						3	3.8
2/15/2023		6.2	6.2		4.5	4.1		
2/16/2023				3.1				
9/19/2023			5.9				2.9	
9/20/2023	4.3	6.2		2.1	4.2	4.1		2.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		5.9					2.8	3.6
2/29/2024	4.3		5.9	2.4	4.1	3.3		
8/13/2024							2.9	
8/14/2024	4.4	6.1	5.9		4.2	2.5		2.8
8/15/2024				1.3				

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.4
9/8/2016	4						
10/18/2016			4.5	3.5			
12/6/2016			5				
12/7/2016				3.2			7.6
12/8/2016	3.6				6.9		
3/21/2017			4.3				
3/22/2017	3.3						7.2
3/23/2017				2.9	6.2		
7/11/2017	3		4.7	3.1			
7/12/2017					6		7.3
10/17/2017			4.6	3			
10/18/2017	2.9						
10/19/2017					6.4		7.4
2/20/2018			4.4	3			
2/21/2018	2.9				6.9		7.6
4/12/2018		2.6					
5/23/2018		2.5					
6/13/2018		2.5					
7/11/2018		2.6	4	2.8			
7/12/2018	2.6				7.3		7.1
8/17/2018		2.6					
9/12/2018		2.3	3.7				
9/13/2018	2.3			2.2			6.6
9/14/2018					7.3		
10/4/2018		2.7			7		
10/24/2018		2.8					
3/26/2019			3.8				
3/27/2019	2.4	2.5		3.1			
3/28/2019					4.8		6.4
10/1/2019				3.1			
10/2/2019	2.6	2.7	4.3				
10/3/2019					4.1		5.9
3/24/2020		2.2					
3/25/2020	1.6		3	2.2			
3/26/2020					2.9		4.8
10/6/2020		2.3	3.4	2.3			
10/7/2020	1.8				2		3.9
3/3/2021	1.6		3.1	2.2			
3/4/2021					1.8		4
3/8/2021		2.4					
9/14/2021		2.5		2.2			
9/15/2021	1.8		2.8				
9/16/2021					1.5		3.3
1/25/2022		2.4					
1/26/2022	1.7		3.2	2.4			
1/27/2022					1.8	3.2	3.8
8/24/2022	1.8	2.1	3	2.7	1.8		
8/25/2022							4.1
8/26/2022						2.4	
2/14/2023		2.6	3.3	2.7			
2/15/2023	1.8						4.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					2.3	2.2	
9/19/2023	1.6	2.3	3.4	2.6			
9/20/2023							3.4
9/21/2023					2.8	2	
2/27/2024	1.5	2.4		2.5			
2/28/2024			3.1				3.3
2/29/2024					2.7	1.9	
8/13/2024	1.6	2.4	3.2	2.5			
8/15/2024					2.9	2	3.3

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0039 (J)	
8/31/2016	<0.005							<0.005
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							0.0047 (J)	
12/7/2016	<0.005	<0.005	<0.005					<0.005
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.005						0.0047 (J)	0.0009 (J)
3/22/2017		<0.005	0.0008 (J)	<0.005	<0.005			
3/23/2017						<0.005		
7/11/2017	<0.005		<0.005				0.0054 (J)	0.0016 (J)
7/12/2017		<0.005		<0.005	<0.005	<0.005		
10/17/2017							0.0053 (J)	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			0.0019 (J)
10/19/2017						<0.005		
2/20/2018	<0.005						0.0029 (J)	<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.005						0.0057 (J)	0.0021 (J)
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						0.0033 (J)	
9/13/2018		<0.005	<0.005		<0.005			0.0022 (J)
9/14/2018				<0.005		<0.005		
9/10/2019								0.0044 (X)
10/1/2019							0.0022 (X)	
10/2/2019	<0.005	<0.005	0.00044 (X)	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							0.0036 (J)	
3/25/2020	0.0013 (J)			<0.005				0.0012 (J)
3/26/2020		<0.005	0.0013 (J)		0.00056 (J)	0.00073 (J)		
8/25/2020							0.003 (J)	
8/26/2020	0.0011 (J)	<0.005	0.00087 (J)	<0.005		<0.005		0.0014 (J)
8/27/2020					<0.005			
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)	0.0015 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	0.00097 (J)					<0.005	0.0018 (J)	0.0015 (J)
3/4/2021		<0.005	0.0012 (J)	<0.005	<0.005			
9/14/2021							0.002 (J)	
9/15/2021	0.0014 (J)	<0.005	0.0011 (J)					0.0019 (J)
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							0.0025 (J)	
1/26/2022	0.0012 (J)	<0.005	0.0013 (J)					0.0028 (J)
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							0.0025 (J)	
8/25/2022	0.0014 (J)	<0.005	0.0012 (J)	<0.005	<0.005	<0.005		0.0022 (J)
2/14/2023	0.0018 (J)						0.0015 (J)	0.0024 (J)
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				0.0015 (J)	
9/20/2023	0.002 (J)	<0.005		<0.005	<0.005	<0.005		0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					<0.005	0.002 (J)
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		
8/13/2024							<0.005	
8/14/2024	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005
8/15/2024				<0.005				

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.005						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				<0.005			0.003 (J)
12/8/2016	<0.005				<0.005		
3/21/2017			0.0006 (J)				
3/22/2017	<0.005						0.0005 (J)
3/23/2017				0.0005 (J)	0.0017 (J)		
7/11/2017	<0.005		0.0006 (J)	<0.005			
7/12/2017					<0.005		<0.01
10/17/2017			0.0008 (J)	0.0005 (J)			
10/18/2017	<0.005						
10/19/2017					<0.005		0.0005 (J)
2/20/2018			<0.005	<0.005			
2/21/2018	<0.005				<0.005		<0.01
4/12/2018		0.01					
5/23/2018		0.011					
6/13/2018		0.011					
7/11/2018		0.0096 (J)	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.01
8/17/2018		0.0078 (J)					
9/12/2018		0.0056 (J)	<0.005				
9/13/2018	<0.005			<0.005			<0.01
9/14/2018					<0.005		
10/4/2018		0.0057 (J)			<0.005		
10/24/2018		0.0058 (J)					
10/1/2019				<0.005			
10/2/2019	<0.005	0.0049 (X)	0.00043 (X)				
10/3/2019					<0.005		0.0004 (X)
3/24/2020		0.0047 (J)					
3/25/2020	<0.005		0.0013 (J)	0.00086 (J)			
3/26/2020					<0.005		0.0016 (J)
8/25/2020			0.0011 (J)	0.001 (J)			
8/26/2020	<0.005	0.004 (J)			<0.005		0.0011 (J)
10/6/2020		0.0065 (J)	0.0013 (J)	0.00072 (J)			
10/7/2020	<0.005				<0.005		0.0014 (J)
3/3/2021	<0.005		0.0015 (J)	<0.005			
3/4/2021					<0.005		0.0024 (J)
3/8/2021		0.0028 (J)					
9/14/2021		0.0084		<0.005			
9/15/2021	<0.005		0.0014 (J)				
9/16/2021					<0.005		0.0025 (J)
1/25/2022		0.0098					
1/26/2022	<0.005		0.0015 (J)	<0.005			
1/27/2022					<0.005	<0.005	0.0034 (J)
8/24/2022	<0.005	0.0066	0.0015 (J)	<0.005	<0.005		
8/25/2022							0.0024 (J)
8/26/2022						<0.005	
2/14/2023		0.0041 (J)	0.0011 (J)	<0.005			
2/15/2023	<0.005						0.0034 (J)
2/16/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	0.0071	0.0012 (J)	<0.005			
9/20/2023							0.0022 (J)
9/21/2023					<0.005	0.0013 (J)	
2/27/2024	<0.005	0.009		<0.005			
2/28/2024			<0.005				0.0025 (J)
2/29/2024					<0.005	0.0032 (J)	
8/13/2024	<0.005	0.0079	<0.005	<0.005			
8/15/2024					<0.005	0.0044 (J)	0.0026 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		0.0012 (J)						
9/6/2016			0.0005 (J)					
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)		
12/6/2016							<0.005	
12/7/2016	0.002 (J)	0.0005 (J)	<0.005					0.0008 (J)
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005			
3/23/2017						<0.005		
7/11/2017	0.0003 (J)		<0.005				<0.005	<0.005
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								<0.005
10/1/2019							<0.005	
10/2/2019	<0.005	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			0.00032 (J)				0.0003 (J)
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		0.00058 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.00067 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	<0.005					<0.005	<0.005	0.00049 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					0.00037 (J)	<0.005
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		
8/13/2024							<0.005	
8/14/2024	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005
8/15/2024				<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0008 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			0.0018 (J)				
12/7/2016				0.0015 (J)			<0.005
12/8/2016	<0.01				0.0041 (J)		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0008 (J)		
7/11/2017	0.001 (J)		<0.005	<0.005			
7/12/2017					0.0007 (J)		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	0.0011 (J)						
10/19/2017					0.0005 (J)		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00075 (J)				0.0012 (J)		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	0.0008 (J)				0.00053 (J)		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	0.001 (J)			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	0.0017 (X)	<0.005	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	0.0018 (J)		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	0.0016 (J)	<0.005			<0.005		<0.005
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	0.0014 (J)				<0.005		<0.005
3/3/2021	0.0016 (J)		<0.005	<0.005			
3/4/2021					<0.005		<0.005
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	0.002 (J)		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	0.0016 (J)		<0.005	<0.005			
1/27/2022					<0.005	0.0043 (J)	<0.005
8/24/2022	0.0016 (J)	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						0.0012 (J)	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	0.0012 (J)						<0.005
2/16/2023					<0.005	0.00051 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0017 (J)	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	
2/27/2024	0.0017 (J)	<0.005		<0.005			
2/28/2024			<0.005				<0.005
2/29/2024					<0.005	<0.005	
8/13/2024	0.0021 (J)	<0.005	<0.005	<0.005			
8/15/2024					<0.005	<0.005	<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.503 (U)	
8/31/2016	1.77							1.85
9/1/2016		1.19						
9/6/2016			1.12					
9/7/2016				1.06 (U)	1.51	1.22		
12/6/2016							0.302 (U)	
12/7/2016	0.672 (U)	1.88	1.37					0.844 (U)
12/8/2016				1.3	1.29	1.69		
3/21/2017	0.33 (U)						0.526 (U)	0.832 (U)
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)			
3/23/2017						1.07		
7/11/2017	0.701 (U)		0.76 (U)				0.676 (U)	0.824 (U)
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)		
10/17/2017							0.201 (U)	
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)			1.19
10/19/2017						0.398 (U)		
2/20/2018	2.12						1.07 (U)	0.975 (U)
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)		
7/11/2018	0.232 (U)						0.825 (U)	1.29
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)		
9/12/2018	0.532 (U)						0.317 (U)	
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)			0.765 (U)
9/14/2018				1.16		0.74 (U)		
9/10/2019								0.575 (U)
10/1/2019							0.953 (U)	
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)				
10/3/2019					2.07	1.9		
3/24/2020							2.23	
3/25/2020	0.694 (U)			0.385 (U)				1.39
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66		
8/25/2020							0.777 (U)	
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)		0.774 (U)
10/6/2020	0.265 (U)		1.12 (U)				0.996 (U)	1.24 (U)
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893		
3/3/2021	0.328 (U)					0.469 (U)	0.915 (U)	1.01 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)			
9/14/2021							0.532 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)					0.742 (U)
9/16/2021				0.377 (U)	0.681 (U)	1.4		
1/25/2022							0.32 (U)	
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)					0.76 (U)
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)		
8/24/2022							0.196 (U)	
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937		0.396 (U)
2/14/2023	0.0857 (U)						0.319 (U)	0.521 (U)
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)		
2/16/2023				0.129 (U)				
9/19/2023			0.531 (U)				0.55 (U)	
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)		0.235 (U)
2/28/2024		0.948 (U)					0.498 (U)	0.261 (U)
2/29/2024	0.433 (U)		0.463 (U)	0.621 (U)	0.228 (U)	0.744 (U)		
8/13/2024							0 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/14/2024	0.071 (U)	0.747 (U)	0.937 (U)		0.365 (U)	0.684 (U)		1.15 (U)
8/15/2024				0.846 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.88 (U)
9/8/2016	1.41						
10/18/2016			0.0311 (U)	0.0333 (U)			
12/6/2016			0.301 (U)				
12/7/2016				0.507 (U)			0.179 (U)
12/8/2016	1.39				0.968 (U)		
3/21/2017			0.506 (U)				
3/22/2017	0.852 (U)						0.279 (U)
3/23/2017				0.378 (U)	0.444 (U)		
7/11/2017	1.04		0.0701 (U)	1.04			
7/12/2017					0.814 (U)		0.125 (U)
10/17/2017			0.412 (U)	0.779 (U)			
10/18/2017	0.678 (U)						
10/19/2017					0.748 (U)		0.329 (U)
2/20/2018			0.81 (U)	0.906 (U)			
2/21/2018	0.863 (U)				1.05 (U)		0.504 (U)
4/12/2018		0.774 (U)					
5/23/2018		0.301 (U)					
6/13/2018		0.508 (U)					
7/11/2018		1.66	0.749 (U)	0.505 (U)			
7/12/2018	1.42				0.751 (U)		0.188 (U)
9/12/2018		0.217 (U)	0.2 (U)				
9/13/2018	0.766 (U)			0.313 (U)			0.0542 (U)
9/14/2018					1.01 (U)		
10/4/2018		1.14			1.05		
10/24/2018		0.441 (U)					
10/1/2019				1.01 (U)			
10/2/2019	1.48	0.712 (U)	0.0883 (U)				
10/3/2019					1.62 (U)		1.37
3/24/2020		0.898 (U)					
3/25/2020	0.91 (U)		1.79	0.333 (U)			
3/26/2020					0.473 (U)		0.43 (U)
8/25/2020			0.405 (U)	0.34 (U)			
8/26/2020	0.95 (U)				0.782 (U)		0.572 (U)
10/6/2020		0.929 (U)	0.276 (U)	0.371 (U)			
10/7/2020	1.01 (U)				0.442 (U)		0.232 (U)
3/3/2021	0.545 (U)		0.907 (U)	0.836 (U)			
3/4/2021					1.03 (U)		0.529 (U)
3/8/2021		0.475 (U)					
9/14/2021		0.972 (U)		0.68 (U)			
9/15/2021	1.07 (U)		0.0517 (U)				
9/16/2021					0.184 (U)		0.382 (U)
1/25/2022		0.146 (U)					
1/26/2022	0.282 (U)		0.0386 (U)	0.449 (U)			
1/27/2022					0.259 (U)	1.13	0.315 (U)
8/24/2022	0.764 (U)	0.0268 (U)	0.781 (U)	0.342 (U)	0.764 (U)		
8/25/2022							0.771 (U)
8/26/2022						0.488 (U)	
2/14/2023		0.486 (U)	0.102 (U)	0.151 (U)			
2/15/2023	0.484 (U)						0.496 (U)
2/16/2023					0.765	0.193 (U)	
9/19/2023	1.21 (U)	0.769 (U)	1.07 (U)	0.804 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/20/2023							0.623 (U)
9/21/2023					0.809 (U)	0.401 (U)	
2/27/2024	0.437 (U)	0.588 (U)		1.41			
2/28/2024			0.186 (U)				0.676 (U)
2/29/2024					0.478 (U)	0.7 (U)	
8/13/2024	0.818 (U)	0.159 (U)	0.334 (U)	0.394 (U)			
8/15/2024					0.387 (U)	0.8 (U)	0.591 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.06 (J)	
8/31/2016	0.13 (J)							0.13 (J)
9/1/2016		0.06 (J)						
9/6/2016			0.09 (J)					
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)		
12/6/2016							0.06 (J)	
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)					0.13 (J)
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)		
3/21/2017	<0.1						0.004 (J)	0.05 (J)
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)			
3/23/2017						0.14 (J)		
7/11/2017	0.05 (J)		0.05 (J)				0.05 (J)	0.05 (J)
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)		
10/17/2017							<0.1	
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)			<0.1
10/19/2017						<0.3		
2/20/2018	0.04 (J)						0.098 (J)	0.3 (J)
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37		
7/11/2018	<0.1						<0.1	0.077 (J)
7/12/2018		<0.1	<0.1			0.17 (J)		
8/15/2018					<0.1			
8/16/2018				0.073 (J)				
9/12/2018	<0.1						0.034 (J)	
9/13/2018		0.15 (J)	<0.1		<0.1			<0.1
9/14/2018				<0.1		<0.3		
3/26/2019							<0.1	
3/27/2019	<0.1		<0.1		<0.1			<0.1
3/28/2019		0.1		0.15		0.074		
9/10/2019								<0.1
10/1/2019							0.062 (X)	
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)				
10/3/2019					0.043 (X)	0.084 (X)		
3/24/2020							<0.1	
3/25/2020	<0.1			<0.1				0.066 (J)
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)		
8/25/2020							<0.1	
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)		0.057 (J)
8/27/2020					<0.1			
10/6/2020	<0.1		<0.1				<0.1	0.052 (J)
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)		
3/3/2021	<0.1					0.058 (J)	<0.1	<0.1
3/4/2021		<0.1	<0.1	<0.1	<0.1			
9/14/2021							<0.1	
9/15/2021	<0.1	<0.1	<0.1					<0.1
9/16/2021				0.052 (J)	<0.1	0.067 (J)		
1/25/2022							<0.1	
1/26/2022	<0.1	<0.1	<0.1					<0.1
1/27/2022				<0.1	<0.1	0.056 (J)		
8/24/2022							0.08 (J)	
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)		0.074 (J)
2/14/2023	<0.1						0.063 (J)	0.084 (J)
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				0.077 (J)				
9/19/2023			<0.1				0.06 (J)	
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)		0.062 (J)
2/28/2024		0.059 (J)					<0.1	0.07 (J)
2/29/2024	<0.1		<0.1	0.068 (J)	<0.1	0.078 (J)		
8/13/2024							<0.1	
8/14/2024	<0.1	<0.1	<0.1		<0.1	0.065 (J)		<0.1
8/15/2024				<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.1
9/8/2016	0.25 (J)						
10/18/2016			0.16 (J)	0.11 (J)			
12/6/2016			0.15 (J)				
12/7/2016				0.07 (J)			0.15 (J)
12/8/2016	0.22 (J)				0.21 (J)		
3/21/2017			0.02 (J)				
3/22/2017	0.16 (J)						0.09 (J)
3/23/2017				<0.1	0.18 (J)		
7/11/2017	0.23 (J)		0.06 (J)	0.02 (J)			
7/12/2017					0.06 (J)		0.02 (J)
10/17/2017			0.05 (J)	<0.1			
10/18/2017	0.28 (J)						
10/19/2017					<0.1		<0.1
2/20/2018			0.21 (J)	<0.1			
2/21/2018	0.29 (J)				0.039 (J)		0.045 (J)
4/12/2018		<0.1					
5/23/2018		0.063 (J)					
6/13/2018		0.11 (J)					
7/11/2018		<0.1	0.087 (J)	<0.1			
7/12/2018	0.21 (J)				<0.1		<0.1
8/17/2018		<0.1					
9/12/2018		0.093 (J)	0.049 (J)				
9/13/2018	0.22 (J)			<0.1			<0.1
9/14/2018					<0.1		
10/4/2018		0.15 (J)			0.15 (J)		
10/24/2018		0.29 (J)					
3/26/2019			<0.1				
3/27/2019	0.37	0.04		<0.1			
3/28/2019					<0.1		<0.1
10/1/2019				0.042 (X)			
10/2/2019	0.16 (X)	0.11 (X)	0.057 (X)				
10/3/2019					0.06 (X)		0.041 (X)
3/24/2020		0.051 (J)					
3/25/2020	0.13 (J)		<0.1	<0.1			
3/26/2020					<0.1		<0.1
8/25/2020			<0.1	<0.1			
8/26/2020	0.14	0.057 (J)			<0.1		<0.1
10/6/2020		0.073 (J)	<0.1	<0.1			
10/7/2020	0.13				<0.1		<0.1
3/3/2021	0.12		<0.1	<0.1			
3/4/2021					<0.1		<0.1
3/8/2021		<0.1					
9/14/2021		0.089 (J)		<0.1			
9/15/2021	0.14		<0.1				
9/16/2021					<0.1		<0.1
1/25/2022		0.071 (J)					
1/26/2022	0.11		<0.1	<0.1			
1/27/2022					<0.1	0.057 (J)	<0.1
8/24/2022	0.15	0.088 (J)	0.069 (J)	0.058 (J)	0.092 (J)		
8/25/2022							0.056 (J)
8/26/2022						0.083 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.076 (J)	0.059 (J)	<0.1			
2/15/2023	0.16						0.05 (J)
2/16/2023					0.082 (J)	0.077 (J)	
9/19/2023	0.14	0.094 (J)	0.053 (J)	<0.1			
9/20/2023							<0.1
9/21/2023					0.074 (J)	0.074 (J)	
2/27/2024	0.13	0.084 (J)		<0.1			
2/28/2024			0.06 (J)				<0.1
2/29/2024					0.068 (J)	0.067 (J)	
8/13/2024	0.12	0.083 (J)	<0.1	<0.1			
8/15/2024					<0.1	<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					<0.001
12/8/2016				<0.001	<0.001	<0.001		
3/21/2017	<0.001						<0.001	<0.001
3/22/2017		5E-05 (J)	<0.001	<0.001	<0.001			
3/23/2017						<0.001		
7/11/2017	<0.001		<0.001				<0.001	<0.001
7/12/2017		<0.001		<0.001	<0.001	<0.001		
10/17/2017							0.0001 (J)	
10/18/2017	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
10/19/2017						<0.001		
2/20/2018	<0.001						<0.001	<0.001
2/21/2018		<0.001	<0.001	<0.001	0.00043 (J)	<0.001		
7/11/2018	<0.001						<0.001	<0.001
7/12/2018		<0.001	<0.001			<0.001		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	<0.001		<0.001			<0.001
9/14/2018				<0.001		<0.001		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	<0.001	8.1E-05 (X)	<0.001				
10/3/2019					<0.001	<0.001		
3/24/2020							6.2E-05 (J)	
3/25/2020	<0.001			<0.001				0.00015 (J)
3/26/2020		<0.001	<0.001		<0.001	<0.001		
8/25/2020							6.5E-05 (J)	
8/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				6.6E-05 (J)	4.7E-05 (J)
10/7/2020		<0.001		<0.001	4.2E-05 (J)	4.2E-05 (J)		
3/3/2021	<0.001					<0.001	5.5E-05 (J)	5.8E-05 (J)
3/4/2021		<0.001	<0.001	<0.001	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	<0.001	<0.001					<0.001
9/16/2021				<0.001	<0.001	<0.001		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				<0.001	<0.001	<0.001		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	<0.001		
2/16/2023				<0.001				
9/19/2023			<0.001				<0.001	
9/20/2023	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.001					<0.001	<0.001
2/29/2024	<0.001		<0.001	<0.001	<0.001	<0.001		
8/13/2024							<0.001	
8/14/2024	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001
8/15/2024				<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	0.0001 (J)			
12/6/2016			<0.001				
12/7/2016				<0.001			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			<0.001				
3/22/2017	<0.001						<0.001
3/23/2017				0.0002 (J)	9E-05 (J)		
7/11/2017	<0.001		<0.001	<0.001			
7/12/2017					<0.001		<0.001
10/17/2017			0.0005 (J)	7E-05 (J)			
10/18/2017	<0.001						
10/19/2017					<0.001		<0.001
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		<0.001					
10/1/2019				<0.001			
10/2/2019	<0.001	4.7E-05 (X)	8.1E-05 (X)				
10/3/2019					4.7E-05 (X)		<0.001
3/24/2020		<0.001					
3/25/2020	<0.001		<0.001	<0.001			
3/26/2020					<0.001		<0.001
8/25/2020			<0.001	6.3E-05 (J)			
8/26/2020	<0.001	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	<0.001				<0.001		<0.001
3/3/2021	<0.001		<0.001	<0.001			
3/4/2021					<0.001		4.1E-05 (J)
3/8/2021		6.2E-05 (J)					
9/14/2021		<0.001		<0.001			
9/15/2021	<0.001		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	<0.001		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	<0.001						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.001	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	
2/27/2024	<0.001	<0.001		<0.001			
2/28/2024			<0.001				<0.001
2/29/2024					<0.001	<0.001	
8/13/2024	<0.001	<0.001	<0.001	<0.001			
8/15/2024					<0.001	<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.03	
8/31/2016	<0.03							<0.03
9/1/2016		<0.03						
9/6/2016			<0.03					
9/7/2016				<0.03	<0.05	0.0082 (J)		
12/6/2016							<0.03	
12/7/2016	0.003 (J)	<0.03	<0.03					<0.03
12/8/2016				<0.03	<0.05	0.0061 (J)		
3/21/2017	<0.03						<0.03	<0.03
3/22/2017		0.0011 (J)	<0.03	0.0021 (J)	0.0029 (J)			
3/23/2017						0.0122 (J)		
7/11/2017	<0.03		<0.03				<0.03	<0.03
7/12/2017		<0.03		0.002 (J)	0.0024 (J)	0.013 (J)		
10/17/2017							<0.03	
10/18/2017	<0.03	<0.03	<0.03	0.002 (J)	0.0027 (J)			<0.03
10/19/2017						0.013 (J)		
2/20/2018	<0.03						<0.03	<0.03
2/21/2018		<0.03	<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)		
7/11/2018	<0.03						<0.03	<0.03
7/12/2018		0.0012 (J)	<0.03			0.013 (J)		
8/15/2018					0.0027 (J)			
8/16/2018				0.0027 (J)				
9/12/2018	<0.03						<0.03	
9/13/2018		0.0013 (J)	<0.03		0.0029 (J)			<0.03
9/14/2018				0.0025 (J)		0.018 (J)		
9/10/2019								<0.03
10/1/2019							<0.03	
10/2/2019	<0.03	0.0013 (X)	<0.03	0.0024 (X)				
10/3/2019					0.0027 (X)	0.016 (X)		
3/24/2020							<0.03	
3/25/2020	<0.03			0.003 (J)				0.0011 (J)
3/26/2020		0.0014 (J)	<0.03		0.0027 (J)	0.013 (J)		
8/25/2020							<0.03	
8/26/2020	<0.03	0.0013 (J)	<0.03	0.0028 (J)		0.011 (J)		0.0011 (J)
8/27/2020					0.0025 (J)			
10/6/2020	<0.03		<0.03				<0.03	0.00097 (J)
10/7/2020		0.0013 (J)		0.0029 (J)	0.003 (J)	0.013 (J)		
3/3/2021	<0.03					0.015 (J)	<0.03	0.001 (J)
3/4/2021		0.0014 (J)	<0.03	0.002 (J)	0.0029 (J)			
9/14/2021							<0.03	
9/15/2021	<0.03	0.0013 (J)	<0.03					0.00085 (J)
9/16/2021				0.0021 (J)	0.0023 (J)	0.013 (J)		
1/25/2022							<0.03	
1/26/2022	<0.03	0.0013 (J)	<0.03					<0.03
1/27/2022				0.0022 (J)	0.003 (J)	0.016 (J)		
8/24/2022							<0.03	
8/25/2022	<0.03	0.0012 (J)	<0.03	0.0018 (J)	0.0033 (J)	0.012 (J)		<0.03
2/14/2023	<0.03						<0.03	<0.03
2/15/2023		0.001 (J)	<0.03		0.0027 (J)	0.011 (J)		
2/16/2023				0.0014 (J)				
9/19/2023			<0.03				<0.03	
9/20/2023	<0.03	0.0014 (J)		0.0012 (J)	0.0028 (J)	0.014 (J)		0.00088 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.03					<0.03	<0.03
2/29/2024	<0.03		<0.03	<0.03	0.0054 (J)	0.012 (J)		
8/13/2024							<0.03	
8/14/2024	<0.03	<0.03	<0.03		0.0041 (J)	0.012 (J)		<0.03
8/15/2024				<0.03				

Time Series

Constituent: Lithium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0022 (J)
9/8/2016	0.0038 (J)						
10/18/2016			<0.03	<0.03			
12/6/2016			<0.03				
12/7/2016				<0.03			0.0023 (J)
12/8/2016	0.0038 (J)				<0.03		
3/21/2017			<0.03				
3/22/2017	0.0068 (J)						0.0025 (J)
3/23/2017				<0.03	<0.03		
7/11/2017	0.0059 (J)		<0.03	<0.03			
7/12/2017					<0.03		0.0033 (J)
10/17/2017			<0.03	<0.03			
10/18/2017	0.0057 (J)						
10/19/2017					<0.03		<0.25
2/20/2018			<0.03	<0.03			
2/21/2018	0.0063 (J)				<0.03		0.0034 (J)
4/12/2018		<0.03					
5/23/2018		<0.03					
6/13/2018		<0.03					
7/11/2018		0.0011 (J)	<0.03	<0.03			
7/12/2018	0.0063 (J)				<0.03		0.0038 (J)
8/17/2018		0.0024 (J)					
9/12/2018		0.0025 (J)	<0.03				
9/13/2018	0.0061 (J)			<0.03			0.0026 (J)
9/14/2018					<0.03		
10/4/2018		0.0021 (J)			<0.03		
10/24/2018		0.0021 (J)					
10/1/2019				<0.03			
10/2/2019	0.0074 (X)	0.0016 (X)	<0.03				
10/3/2019					<0.03		0.0032 (X)
3/24/2020		0.0019 (J)					
3/25/2020	0.0066 (J)		<0.03	<0.03			
3/26/2020					<0.03		0.0031 (J)
8/25/2020			<0.03	<0.03			
8/26/2020	0.0065 (J)	0.0015 (J)			<0.03		0.0023 (J)
10/6/2020		0.00099 (J)	<0.03	<0.03			
10/7/2020	0.0063 (J)				<0.03		0.0023 (J)
3/3/2021	0.0061 (J)		<0.03	<0.03			
3/4/2021					<0.03		0.0031 (J)
3/8/2021		0.0019 (J)					
9/14/2021		0.0013 (J)		<0.03			
9/15/2021	0.0061 (J)		<0.03				
9/16/2021					<0.03		0.0025 (J)
1/25/2022		0.0012 (J)					
1/26/2022	0.008 (J)		<0.03	<0.03			
1/27/2022					<0.03	0.002 (J)	0.0039 (J)
8/24/2022	0.0073 (J)	0.0012 (J)	<0.03	<0.03	<0.03		
8/25/2022							0.003 (J)
8/26/2022						0.0013 (J)	
2/14/2023		0.001 (J)	<0.03	<0.03			
2/15/2023	0.0057 (J)						0.0037 (J)
2/16/2023					<0.03	0.00082 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0064 (J)	<0.03	0.00079 (J)	<0.03			
9/20/2023							0.0023 (J)
9/21/2023					<0.03	0.00089 (J)	
2/27/2024	0.007 (J)	<0.03		<0.03			
2/28/2024			<0.03				0.0024 (J)
2/29/2024					<0.03	<0.03	
8/13/2024	0.0064 (J)	<0.03	<0.03	<0.03			
8/15/2024					<0.03	<0.03	0.0025 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0002	
8/31/2016	<0.0002							<0.0002
9/1/2016		<0.0002						
9/6/2016			<0.0002					
9/7/2016				<0.0002	<0.0002	<0.0002		
12/6/2016							<0.0002	
12/7/2016	7E-05 (J)	<0.0002	<0.0002					9E-05 (J)
12/8/2016				<0.0002	<0.0002	<0.0002		
3/21/2017	<0.0002						<0.0002	<0.0002
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002			
3/23/2017						<0.0002		
7/11/2017	<0.0002		<0.0002				<0.0002	<0.0002
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002		
10/17/2017							<0.0002	
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
10/19/2017						<0.0002		
2/20/2018	<0.0002						<0.0002	<0.0002
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)		
7/11/2018	<0.0002						<0.0002	<0.0002
7/12/2018		<0.0002	<0.0002			<0.0002		
8/15/2018					<0.0002			
8/16/2018				<0.0002				
9/12/2018	<0.0002						<0.0002	
9/13/2018		<0.0002	<0.0002		<0.0002			<0.0002
9/14/2018				<0.0002		<0.0002		
8/25/2020							9.9E-05 (J)	
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)		0.00017 (J)
8/27/2020					<0.0002			
10/6/2020	<0.0002		<0.0002				<0.0002	<0.0002
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002		
3/3/2021	<0.0002					<0.0002	<0.0002	<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002			
9/14/2021							<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002					<0.0002
9/16/2021				<0.0002	<0.0002	<0.0002		
1/25/2022							<0.0002	
1/26/2022	<0.0002	<0.0002	<0.0002					<0.0002
1/27/2022				<0.0002	<0.0002	<0.0002		
8/24/2022							<0.0002	
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/14/2023	<0.0002						<0.0002	<0.0002
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002		
2/16/2023				<0.0002				
9/19/2023			<0.0002				<0.0002	
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
2/28/2024		<0.0002					<0.0002	<0.0002
2/29/2024	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
8/13/2024							<0.0002	
8/14/2024	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
8/15/2024				<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0002
9/8/2016	<0.0002						
10/18/2016			<0.0002	<0.0002			
12/6/2016			<0.0002				
12/7/2016				<0.0002			6E-05 (J)
12/8/2016	<0.0002				<0.0002		
3/21/2017			<0.0002				
3/22/2017	<0.0002						<0.0002
3/23/2017				<0.0002	<0.0002		
7/11/2017	<0.0002		<0.0002	<0.0002			
7/12/2017					<0.0002		<0.0002
10/17/2017			<0.0002	<0.0002			
10/18/2017	<0.0002						
10/19/2017					<0.0002		<0.0002
2/20/2018			<0.0002	<0.0002			
2/21/2018	5.3E-05 (J)				4.3E-05 (J)		5.3E-05 (J)
4/12/2018		<0.0002					
5/23/2018		<0.0002					
6/13/2018		4.9E-05 (J)					
7/11/2018		<0.0002	<0.0002	<0.0002			
7/12/2018	<0.0002				<0.0002		<0.0002
8/17/2018		<0.0002					
9/12/2018		<0.0002	<0.0002				
9/13/2018	<0.0002			<0.0002			<0.0002
9/14/2018					4.1E-05 (J)		
10/4/2018		<0.0002			<0.0002		
10/24/2018		5.2E-05 (J)					
8/25/2020			0.0001 (J)	<0.0002			
8/26/2020	<0.0002	<0.0002			0.00011 (J)		<0.0002
10/6/2020		<0.0002	<0.0002	<0.0002			
10/7/2020	<0.0002				<0.0002		<0.0002
3/3/2021	<0.0002		<0.0002	<0.0002			
3/4/2021					<0.0002		<0.0002
3/8/2021		<0.0002					
9/14/2021		<0.0002		<0.0002			
9/15/2021	<0.0002		<0.0002				
9/16/2021					<0.0002		<0.0002
1/25/2022		<0.0002					
1/26/2022	<0.0002		<0.0002	<0.0002			
1/27/2022					<0.0002	<0.0002	<0.0002
8/24/2022		0.00013 (J)	<0.0002	0.00014 (J)	<0.0002		
8/25/2022							<0.0002
8/26/2022						<0.0002	
10/11/2022	<0.0002						
2/14/2023		<0.0002	<0.0002	<0.0002			
2/15/2023	<0.0002						<0.0002
2/16/2023					<0.0002	<0.0002	
9/19/2023	<0.0002	<0.0002	<0.0002	<0.0002			
9/20/2023							<0.0002
9/21/2023					<0.0002	<0.0002	
2/27/2024	<0.0002	<0.0002		<0.0002			
2/28/2024			<0.0002				<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/29/2024					<0.0002	<0.0002	
8/13/2024	<0.0002	<0.0002	<0.0002	<0.0002			
8/15/2024					<0.0002	<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.01	
8/31/2016	<0.01							<0.01
9/1/2016		<0.01						
9/6/2016			<0.01					
9/7/2016				<0.01	<0.01	0.0027 (J)		
12/6/2016							0.0019 (J)	
12/7/2016	<0.01	<0.01	<0.01					<0.01
12/8/2016				<0.01	<0.01	0.0022 (J)		
3/21/2017	0.0005 (J)						0.0018 (J)	0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)	<0.01			
3/23/2017						0.0025 (J)		
7/11/2017	<0.01		<0.01				0.0018 (J)	<0.01
7/12/2017		<0.01		<0.01	<0.01	0.0022 (J)		
10/17/2017							0.0016 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01
10/19/2017						0.0021 (J)		
2/20/2018	<0.01						<0.01	<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01		
7/11/2018	<0.01						<0.01	<0.01
7/12/2018		<0.01	<0.01			0.0022 (J)		
8/15/2018					<0.01			
8/16/2018				<0.01				
9/12/2018	<0.01						<0.01	
9/13/2018		<0.01	<0.01		<0.01			<0.01
9/14/2018				<0.01		0.0023 (J)		
9/10/2019								<0.01
10/1/2019							0.001 (X)	
10/2/2019	<0.01	<0.01	<0.01	<0.01				
10/3/2019					<0.01	0.0024 (X)		
3/24/2020							0.001 (J)	
3/25/2020	<0.01			<0.01				0.0011 (J)
3/26/2020		<0.01	<0.01		<0.01	0.0021 (J)		
8/25/2020							0.001 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01		0.002 (J)		<0.01
8/27/2020					<0.01			
10/6/2020	<0.01		<0.01				0.0009 (J)	<0.01
10/7/2020		<0.01		<0.01	<0.01	0.0019 (J)		
3/3/2021	<0.01					0.0021 (J)	0.00076 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01	<0.01			
9/14/2021							0.00086 (J)	
9/15/2021	<0.01	<0.01	<0.01					<0.01
9/16/2021				<0.01	<0.01	0.0021 (J)		
1/25/2022							<0.01	
1/26/2022	<0.01	<0.01	<0.01					<0.01
1/27/2022				<0.01	<0.01	0.0022 (J)		
8/24/2022							0.00088 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	<0.01	0.0017 (J)		<0.01
2/14/2023	<0.01						0.0013 (J)	<0.01
2/15/2023		<0.01	<0.01		<0.01	0.0016 (J)		
2/16/2023				<0.01				
9/19/2023			<0.01				0.0013 (J)	
9/20/2023	<0.01	<0.01		<0.01	<0.01	0.0019 (J)		<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.01					0.00083 (J)	<0.01
2/29/2024	<0.01		<0.01	<0.01	<0.01	0.0018 (J)		
8/13/2024							<0.01	
8/14/2024	<0.01	<0.01	<0.01		<0.01	0.0023 (J)		<0.01
8/15/2024				<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.01						
10/18/2016			<0.01	<0.01			
12/6/2016			<0.01				
12/7/2016				<0.01			<0.01
12/8/2016	<0.01				<0.01		
3/21/2017			0.0005 (J)				
3/22/2017	0.001 (J)						<0.01
3/23/2017				<0.01	<0.01		
7/11/2017	<0.01		<0.01	<0.01			
7/12/2017					<0.01		<0.01
10/17/2017			<0.01	<0.01			
10/18/2017	<0.01						
10/19/2017					<0.01		<0.01
2/20/2018			<0.01	<0.01			
2/21/2018	<0.01				<0.01		<0.01
4/12/2018		<0.01					
5/23/2018		<0.01					
6/13/2018		<0.01					
7/11/2018		<0.01	<0.01	<0.01			
7/12/2018	<0.01				<0.01		<0.01
8/17/2018		<0.01					
9/12/2018		<0.01	<0.01				
9/13/2018	<0.01			<0.01			<0.01
9/14/2018					<0.01		
10/4/2018		<0.01			<0.01		
10/24/2018		<0.01					
10/1/2019				<0.01			
10/2/2019	<0.01	<0.01	<0.01				
10/3/2019					<0.01		<0.01
3/24/2020		<0.01					
3/25/2020	<0.01		<0.01	<0.01			
3/26/2020					<0.01		<0.01
8/25/2020			<0.01	<0.01			
8/26/2020	<0.01	<0.01			<0.01		<0.01
10/6/2020		0.00069 (J)	<0.01	<0.01			
10/7/2020	<0.01				<0.01		<0.01
3/3/2021	<0.01		<0.01	<0.01			
3/4/2021					<0.01		<0.01
3/8/2021		<0.01					
9/14/2021		0.00077 (J)		<0.01			
9/15/2021	<0.01		<0.01				
9/16/2021					<0.01		<0.01
1/25/2022		<0.01					
1/26/2022	<0.01		<0.01	<0.01			
1/27/2022					<0.01	0.00085 (J)	<0.01
8/24/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/25/2022							<0.01
8/26/2022						<0.01	
2/14/2023		<0.01	<0.01	<0.01			
2/15/2023	<0.01						<0.01
2/16/2023					<0.01	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.01	0.0008 (J)	<0.01	<0.01			
9/20/2023							<0.01
9/21/2023					<0.01	<0.01	
2/27/2024	<0.01	0.00069 (J)		<0.01			
2/28/2024			<0.01				<0.01
2/29/2024					<0.01	<0.01	
8/13/2024	<0.01	<0.01	<0.01	<0.01			
8/15/2024					<0.01	<0.01	<0.01

Time Series

Constituent: pH (SU) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							7.67	
8/31/2016	6.97							6.75
9/1/2016		7.21						
9/6/2016			7.23					
9/7/2016				7.02	6.92	6.71		
12/6/2016							7.57	
12/7/2016	6.85	7.13	7.3					6.64
12/8/2016				6.95	6.9	6.61		
3/21/2017	7.04						7.54	6.73
3/22/2017		7.04	7.2	7.05	7			
3/23/2017						6.69		
7/11/2017	6.88		7.31				7.43	6.66
7/12/2017		7.09		7.06	6.95	6.69		
10/17/2017							7.7	
10/18/2017	6.77	7.2	7.28	6.99		6.88		6.73
10/19/2017						6.85		
2/20/2018	7.32 (D)						7.57	7.11
2/21/2018		7.11	7.1	6.95	6.89	6.66		
7/11/2018	7.12						7.48	7
7/12/2018		7.07	7.14	7.06	7.01	6.84		
8/15/2018					6.87			
8/16/2018				7.01				
9/12/2018	6.87						7.41	
9/13/2018		7.01	7.08		6.86			6.56
9/14/2018				6.83		6.76		
3/26/2019							7.49	
3/27/2019	6.98		7.23		6.92			6.75
3/28/2019		7.84		6.97		6.67		
9/10/2019								6.78
10/1/2019							7.5	
10/2/2019	6.96	7.22	7.22	6.99				
10/3/2019					6.78	6.93		
3/24/2020							7.79	
3/25/2020	7.02			6.93				6.84
3/26/2020		7.08	7.12		7.01	6.7		
8/25/2020							7.49	
8/26/2020	6.98	7.08	7.18	6.98		6.68		6.64
8/27/2020					6.88			
10/6/2020	7.01		7.24				7.35	6.78
10/7/2020		7.11		7.04	6.91	6.78		
3/3/2021	6.99					6.78	7.56	6.79
3/4/2021		7.09	7.34	7.09	6.91			
9/14/2021							7.45	
9/15/2021	6.94	7.09	7.12					6.72
9/16/2021				7.03	6.85	6.77		
1/25/2022							7.51	
1/26/2022	7.05	7.33	7.26					6.83
1/27/2022				7.03	6.92	6.8		
8/24/2022							7.49	
8/25/2022	6.93	7.15	7.14	7.05	6.76	6.67		6.76
2/14/2023	7.04						7.43	6.75
2/15/2023		7.09	7.1		6.73	6.66		

Time Series

Constituent: pH (SU) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				7.14				
9/19/2023			7.08				7.44	
9/20/2023	6.94	7.07		7.16	6.76	6.83		6.86
2/28/2024		7.18					7.41	6.79
2/29/2024	7.07		7.19	7.2	6.94	6.82		
8/13/2024							7.46	
8/14/2024	7.52	7.11	7.15		6.92	6.9		6.75
8/15/2024				7.35				

Time Series

Constituent: pH (SU) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.07
9/8/2016	7.1						
10/4/2016					6.88		
10/5/2016					6.91		
10/17/2016				7.43			
10/18/2016			7.15	7.45			
12/6/2016			7.04				
12/7/2016				7.29			6.85
12/8/2016	6.98				6.86		
3/21/2017			7.01				
3/22/2017	7.16						6.99
3/23/2017				7.26	6.9		
7/11/2017	7.15		6.96	7.31	7.82 (o)		
7/12/2017					6.81		6.83
10/17/2017		7.61	7.31	7.29			
10/18/2017	7.09						
10/19/2017					6.86		6.91
2/20/2018				7.26			
2/21/2018	7.12				7.02		6.97
7/11/2018		9.48	7.26	7.39			
7/12/2018			7.01		6.82		6.85
9/12/2018		9.07	7.02				
9/13/2018	7.03			7.25			6.88
9/14/2018					6.75		
3/26/2019			7				
3/27/2019	7.08	8.76		7.42			
3/28/2019					6.96		6.96
10/1/2019				7.43			
10/2/2019	7.2	8.97	7.09				
10/3/2019					7.01		6.85
3/24/2020		8.57					
3/25/2020	7.01		7.15	7.23			
3/26/2020					7		7.12
8/25/2020			7.14	7.53			
8/26/2020	7.09	7.97			6.99		7.01
10/6/2020		8.72	7.01	7.27			
10/7/2020	6.95				7.04		6.98
3/3/2021	7.04		7.14	7.41			
3/4/2021					7.22		6.95
3/8/2021		7.77					
9/14/2021		8.96		7.31			
9/15/2021	7.05		6.99				
9/16/2021					7.1		6.96
1/25/2022		8.4					
1/26/2022	7.28		7.1	7.44			
1/27/2022					7.18	7.3	7.03
8/24/2022	7.1	8.01	7.04	7.34	7.1		
8/25/2022							6.98
8/26/2022						7.09	
10/11/2022	7.13	7.94		7.37			
2/14/2023		7.97	7.09	7.36			
2/15/2023	7.02						6.92

Time Series

Constituent: pH (SU) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					7.13	7.06	
9/19/2023	7.18	8.82	7.02	7.43			
9/20/2023							7.15
9/21/2023					7.05	7.21	
2/27/2024	7.13	8.49		7.39			
2/28/2024			7.11				7.07
2/29/2024					7.14	7.13	
8/13/2024	7.06	9.2	7.12	7.33			
8/15/2024					7.07	7.1	7.05

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	0.0012 (J)							0.0014 (J)
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.01		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.01
12/8/2016				<0.005	<0.005	<0.01		
3/21/2017	<0.005						<0.005	<0.01
3/22/2017		<0.005	<0.005	<0.005	<0.005			
3/23/2017						<0.01		
7/11/2017	<0.005		<0.005				<0.005	<0.01
7/12/2017		<0.005		<0.005	<0.005	<0.01		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.01
10/19/2017						<0.01		
2/20/2018	<0.005						<0.005	<0.01
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.01		
7/11/2018	<0.005						<0.005	<0.01
7/12/2018		<0.005	<0.005			<0.01		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.01
9/14/2018				<0.005		0.0015 (J)		
9/10/2019								0.0018 (X)
10/1/2019							<0.005	
10/2/2019	0.0015 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	0.0034 (X)		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				0.003 (J)
3/26/2020		<0.005	<0.005		<0.005	0.0016 (J)		
8/25/2020							<0.005	
8/26/2020	<0.005	0.0018 (J)	<0.005	<0.005		0.0031 (J)		0.0026 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.0027 (J)
10/7/2020		<0.005		<0.005	<0.005	0.0035 (J)		
3/3/2021	<0.005					0.0033 (J)	<0.005	0.0025 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					0.0024 (J)
9/16/2021				<0.005	<0.005	0.0033 (J)		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					0.0023 (J)
1/27/2022				<0.005	<0.005	0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		0.0023 (J)
2/14/2023	<0.005						<0.005	0.0015 (J)
2/15/2023		<0.005	<0.005		<0.005	0.0036 (J)		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	0.0024 (J)		0.0023 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					<0.005	0.0018 (J)
2/29/2024	<0.005		<0.005	<0.005	<0.005	0.0043 (J)		
8/13/2024							<0.005	
8/14/2024	<0.005	<0.005	<0.005		<0.005	0.0053		0.0019 (J)
8/15/2024				<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	<0.005						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				<0.005			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	<0.005						<0.005
3/23/2017				<0.005	<0.005		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	<0.005				<0.005		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	<0.005	<0.005	<0.005				
10/3/2019					<0.005		0.0017 (X)
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		0.0018 (J)
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	<0.005				<0.005		<0.005
3/3/2021	<0.005		<0.005	<0.005			
3/4/2021					<0.005		0.0018 (J)
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	0.0018 (J)
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							0.0017 (J)
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						0.0017 (J)
2/16/2023					<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							0.0015 (J)
9/21/2023					<0.005	<0.005	
2/27/2024	<0.005	<0.005		<0.005			
2/28/2024			<0.005				0.0019 (J)
2/29/2024					<0.005	<0.005	
8/13/2024	<0.005	<0.005	<0.005	<0.005			
8/15/2024					<0.005	0.001 (J)	0.0011 (J)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							2.1	
8/31/2016	4.1							29
9/1/2016		73						
9/6/2016			49					
9/7/2016				99	96	87		
12/6/2016							2.4	
12/7/2016	1.5	71	46					24
12/8/2016				94	94	84		
3/21/2017	2						2.5	31
3/22/2017		80	53	100	95			
3/23/2017						90		
7/11/2017	2		52				2.6	37
7/12/2017		78		100	96	93		
10/17/2017							2.5	
10/18/2017	4.2	82	58	100	99			34
10/19/2017						92		
2/20/2018	2.4						2.3	34.7
2/21/2018		72.2	48.2	98.8	91.8	84.5		
7/11/2018	3.8						2.5	35.4
7/12/2018		80.5	48.8			84.9		
8/15/2018					101			
8/16/2018				111				
9/12/2018	4.3						2	
9/13/2018		84.4	48.7		106			37.4
9/14/2018				102		89.5		
3/26/2019							2.7	
3/27/2019	8.2		46.5		111			41.9
3/28/2019		90.3		94.7		83.5		
9/10/2019								45.1
10/1/2019							2.8	
10/2/2019	6.2	83	48.5	104				
10/3/2019					95.8	84.9		
3/24/2020							3	
3/25/2020	11.9			92.4				47
3/26/2020		83.6	43.5		91	84.9		
10/6/2020	11		42.4				2.4	71.2
10/7/2020		80.7		89.1	87.3	83.3		
3/3/2021	8.8					80.8	2.2	66
3/4/2021		74.1	38.9	66.8	88.6			
9/14/2021							2.6	
9/15/2021	11.4	73.4	37.8					46.8
9/16/2021				70.9	86.9	72.7		
1/25/2022							2.4	
1/26/2022	9.1	77.2	38.9					37.8
1/27/2022				62.1	89.9 (M1)	76.3		
8/24/2022							2.2	
8/25/2022	10.7	75.5	38.7	62.7	96.3	84.4		45.6
2/14/2023	10						1.6	35.1
2/15/2023		75.7 (M1)	38.1		96.6	78.8		
2/16/2023				54.2				
9/19/2023			37.5				2.2	
9/20/2023	12.5	74.9		34.3	93.8	83.4		44.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		77.4					<1	33.5
2/29/2024	13.3		37.9	45.4	92.7	71.5		
8/13/2024							2.5	
8/14/2024	17.3	78.4	38.8		94.3	61.7		43.4
8/15/2024				18.3				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							62
9/8/2016	48						
10/18/2016			2.2	2.3			
12/6/2016			6.1				
12/7/2016				1.9			57
12/8/2016	46				100		
3/21/2017			5.7				
3/22/2017	53						61
3/23/2017				1.7	100		
7/11/2017	51		4.8	1.8			
7/12/2017					97		53
10/17/2017			6.4	1.9			
10/18/2017	50						
10/19/2017					97		55
2/20/2018			5.2	2.1			
2/21/2018	46.8				93.6		52.1
4/12/2018		4.8 (J)					
5/23/2018		4.5					
6/13/2018		5.3					
7/11/2018		5.4	3.6	2			
7/12/2018	48.3				89.4		53.9
8/17/2018		4.5					
9/12/2018		4.4	2.7				
9/13/2018	42			2.1			67.5
9/14/2018					88.9		
10/4/2018		5.8			97.8		
10/24/2018		6.2					
3/26/2019			1.6				
3/27/2019	43.7	3.7		2.4			
3/28/2019					76.7		59.6
10/1/2019				2.2			
10/2/2019	43	4.1	1.6				
10/3/2019					72.1		59.6
3/24/2020		3.1					
3/25/2020	39.1		1.5	1.9			
3/26/2020					66.6		57.1
10/6/2020		3.1	0.98 (J)	1.9			
10/7/2020	38.1				54.6		48.9
3/3/2021	39.2		0.6 (J)	2			
3/4/2021					49.3		49.7
3/8/2021		2.7					
9/14/2021		3.8		1.8			
9/15/2021	37.8		0.64 (J)				
9/16/2021					40.4		41.8
1/25/2022		2.9					
1/26/2022	37.5		0.69 (J)	1.9			
1/27/2022					40	94.5	46.7
8/24/2022	35.7	2	0.56 (J)	1.7	34.7		
8/25/2022							47.3
8/26/2022						87.2	
2/14/2023		2.6	0.89 (J)	2			
2/15/2023	37.1						49.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					36	77.7	
9/19/2023	34.7	3.2	0.61 (J)	1.5			
9/20/2023							40.7
9/21/2023					34.8	66.7	
2/27/2024	34	2.6		1.4			
2/28/2024			0.54 (J)				40.3
2/29/2024					32.2	65.1	
8/13/2024	34.8	3.3	0.8 (J)	1.7			
8/15/2024					31.6	59.7	39

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					0.0002 (J)
12/8/2016				<0.001	<0.001	0.0003 (J)		
3/21/2017	6E-05 (J)						<0.001	0.0003 (J)
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)			
3/23/2017						0.0003 (J)		
7/11/2017	<0.001		0.0002 (J)				<0.001	0.0002 (J)
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)		
10/17/2017							<0.001	
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)			0.0001 (J)
10/19/2017						0.0005 (J)		
2/20/2018	<0.001						<0.001	0.00026 (J)
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)		
7/11/2018	<0.001						<0.001	0.00018 (J)
7/12/2018		<0.001	<0.001			0.00077 (J)		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	0.00017 (J)		<0.001			<0.001
9/14/2018				<0.001		0.00076 (J)		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)				
10/3/2019					<0.001	0.00071 (X)		
3/24/2020							<0.001	
3/25/2020	<0.001			0.0002 (J)				0.00015 (J)
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)		
8/25/2020							<0.001	
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)		0.00016 (J)
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				<0.001	<0.001
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)		
3/3/2021	<0.001					0.00072 (J)	<0.001	0.00017 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001					<0.001
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)		
2/16/2023				0.00038 (J)				
9/19/2023			<0.001				0.00028 (J)	
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)		<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.001					<0.001	<0.001
2/29/2024	<0.001		<0.001	<0.001	<0.001	0.0005 (J)		
8/13/2024							<0.001	
8/14/2024	<0.001	<0.001	<0.001		<0.001	0.00045 (J)		<0.001
8/15/2024				<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	<0.001			
12/6/2016			<0.001				
12/7/2016				0.0002 (J)			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			6E-05 (J)				
3/22/2017	<0.001						0.0002 (J)
3/23/2017				8E-05 (J)	0.0001 (J)		
7/11/2017	<0.001		<0.001	7E-05 (J)			
7/12/2017					0.0001 (J)		0.0001 (J)
10/17/2017			<0.001	8E-05 (J)			
10/18/2017	<0.001						
10/19/2017					0.0001 (J)		0.0001 (J)
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		0.00016 (J)					
10/1/2019				<0.001			
10/2/2019	0.00024 (X)	<0.001	<0.001				
10/3/2019					0.00018 (X)		7.8E-05 (X)
3/24/2020		<0.001					
3/25/2020	0.00037 (J)		<0.001	<0.001			
3/26/2020					0.00015 (J)		8.5E-05 (J)
8/25/2020			<0.001	<0.001			
8/26/2020	0.00037 (J)	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	0.00027 (J)				<0.001		<0.001
3/3/2021	0.00036 (J)		<0.001	<0.001			
3/4/2021					<0.001		<0.001
3/8/2021		<0.001					
9/14/2021		<0.001		<0.001			
9/15/2021	0.00066 (J)		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	0.00039 (J)		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	0.00048 (J)	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	0.00045 (J)						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.00061 (J)	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	
2/27/2024	0.00065 (J)	<0.001		<0.001			
2/28/2024			<0.001				<0.001
2/29/2024					<0.001	<0.001	
8/13/2024	0.0008 (J)	<0.001	<0.001	<0.001			
8/15/2024					<0.001	<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							136	
8/31/2016	344							400
9/1/2016		284						
9/6/2016			257					
9/7/2016				392	415	508		
12/6/2016							207	
12/7/2016	393	242	248					406
12/8/2016				431	441	556		
3/21/2017	276						128	409
3/22/2017		332	304	456	469			
3/23/2017						482		
7/11/2017	263		265				138	414
7/12/2017		308		445	432	497		
10/17/2017							101	
10/18/2017	261	275	240	349	368			366
10/19/2017						448		
2/20/2018	295						138	429
2/21/2018		312	285	411	409	500		
7/11/2018	294						153	440
7/12/2018		337	285			523		
8/15/2018					422			
8/16/2018				415				
9/12/2018	286						146	
9/13/2018		336	291		438			448
9/14/2018				403		486		
3/26/2019							334	
3/27/2019	281		277		408			410
3/28/2019		337		420		378		
9/10/2019								420
10/1/2019							146	
10/2/2019	312	355	284	415				
10/3/2019					464	485		
3/24/2020							228	
3/25/2020	330			408				454
3/26/2020		330	286		415	440		
10/6/2020	241		261				153	462
10/7/2020		336		392	425	492		
3/3/2021	258					452	134	444
3/4/2021		300	264	325	427			
9/14/2021							150	
9/15/2021	292	326	270					422
9/16/2021				330	419	450		
1/25/2022							148	
1/26/2022	288	308	267					413
1/27/2022				329	433	442		
8/24/2022							139	
8/25/2022	259	319	90	321	446	528		437
2/14/2023	300						200	414
2/15/2023		329	334		477	529		
2/16/2023				299				
9/19/2023			298				146	
9/20/2023	293	328		256	451	512		421

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		342					176	430
2/29/2024	308		292	277	473	470		
8/13/2024							163	
8/14/2024	284	342	311		468	436		436
8/15/2024				245				

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							373
9/8/2016	293						
10/18/2016			264	152			
12/6/2016			299				
12/7/2016				214			433
12/8/2016	309				503 (o)		
3/21/2017			260				
3/22/2017	299						409
3/23/2017				165	430		
7/11/2017	301		244	162			
7/12/2017					438		374
10/17/2017			218	140			
10/18/2017	256						
10/19/2017					393		318
2/20/2018			264	163			
2/21/2018	297				435		367
4/12/2018		69					
5/23/2018		62					
6/13/2018		93					
7/11/2018		84	273	192			
7/12/2018	310				447		423
8/17/2018		115					
9/12/2018		97	252				
9/13/2018	307			192			394
9/14/2018					447		
10/4/2018		103			450		
10/24/2018		110					
3/26/2019			253				
3/27/2019	287	87		167			
3/28/2019					405		365
10/1/2019				187			
10/2/2019	312	95	263				
10/3/2019					414		405
3/24/2020		123					
3/25/2020	280		278	178			
3/26/2020					336		332
10/6/2020		81	254	169			
10/7/2020	280				337		334
3/3/2021	267		264	166			
3/4/2021					283		335
3/8/2021		126					
9/14/2021		71		179			
9/15/2021	272		256				
9/16/2021					296		307
1/25/2022		68					
1/26/2022	276		262	182			
1/27/2022					274	387	331
8/24/2022			261		265		
8/25/2022							325
8/26/2022						358	
10/11/2022	267	75		173			
2/14/2023		140	257	177			

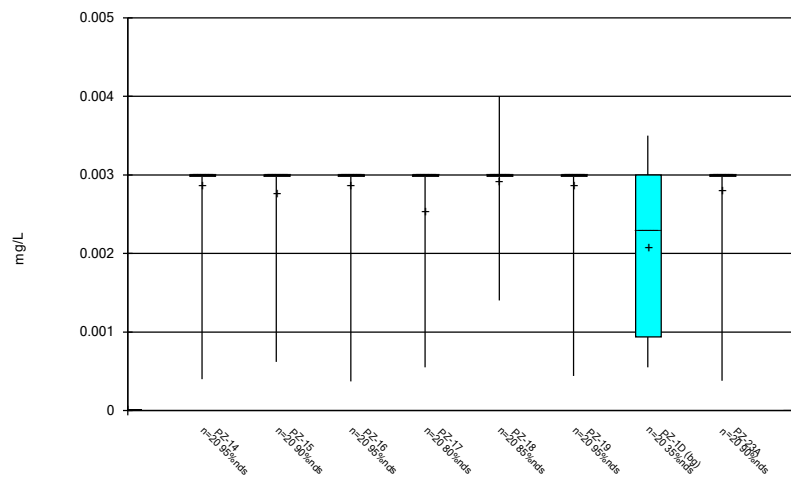
Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:17 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/15/2023	264						335 (D6)
2/16/2023					293	421	
9/19/2023	311	86	265	217			
9/20/2023							302
9/21/2023					300	311	
2/27/2024	287	75		192			
2/28/2024			276				325
2/29/2024					314	334	
8/13/2024	273	69	263	187			
8/15/2024					341	348	350

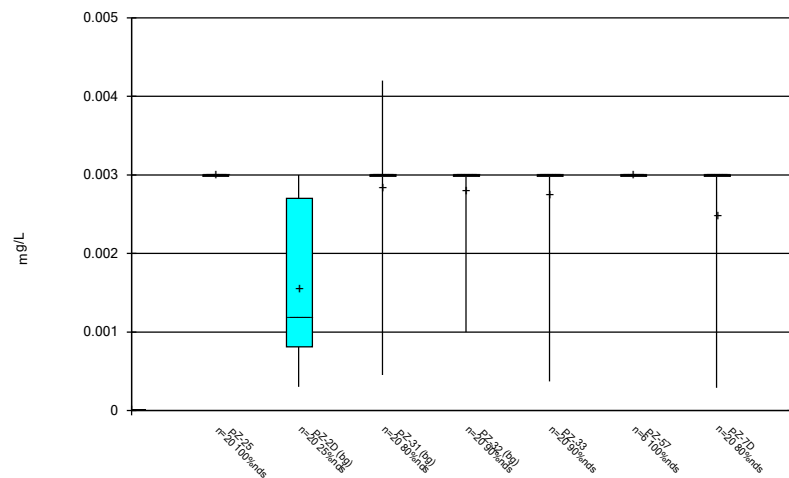
FIGURE B.

Box & Whiskers Plot



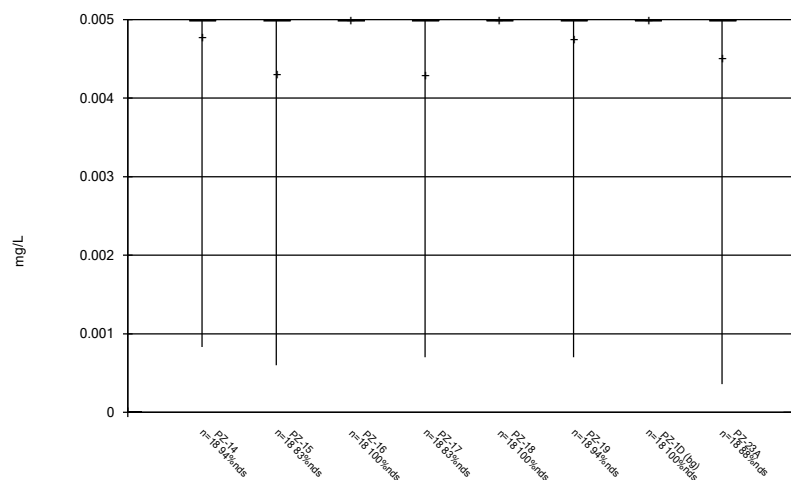
Constituent: Antimony Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



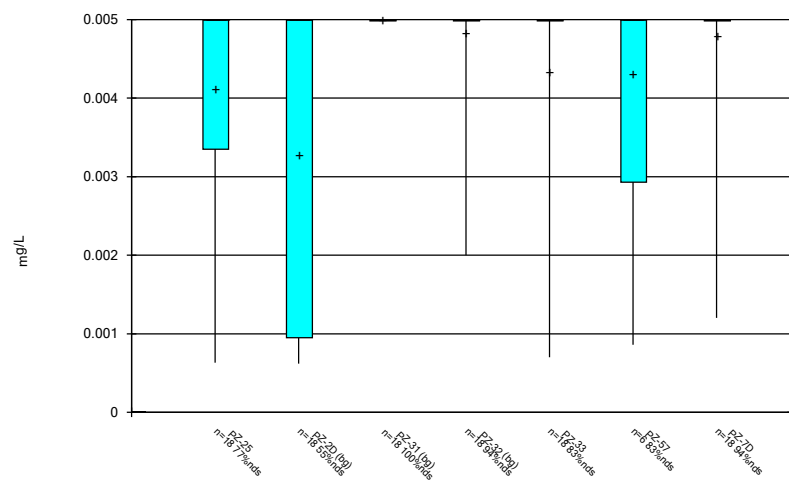
Constituent: Antimony Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



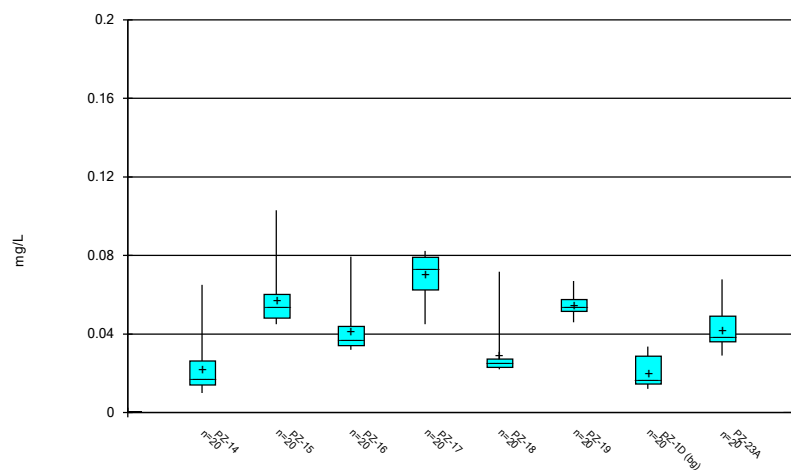
Constituent: Arsenic Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



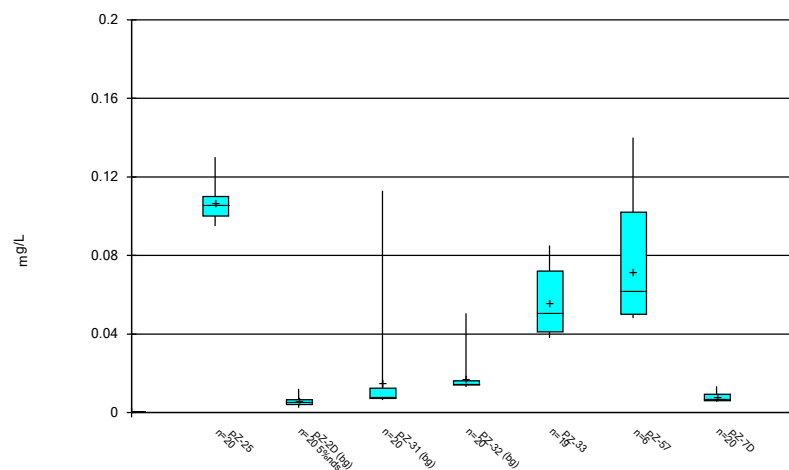
Constituent: Arsenic Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



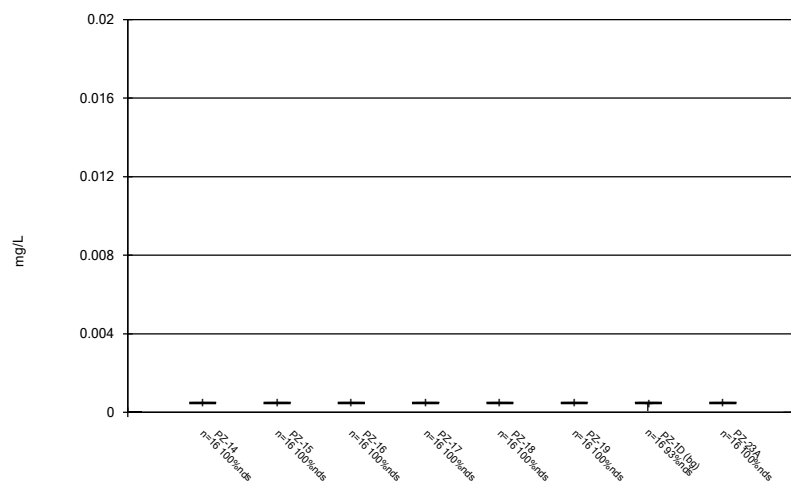
Constituent: Barium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



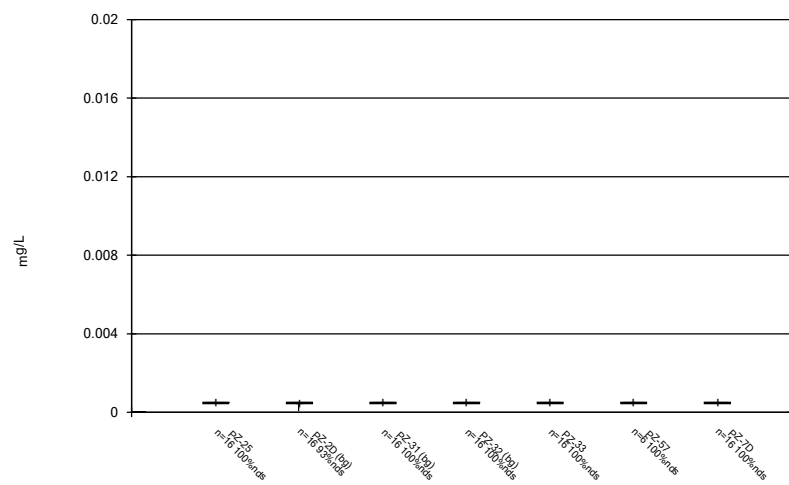
Constituent: Barium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



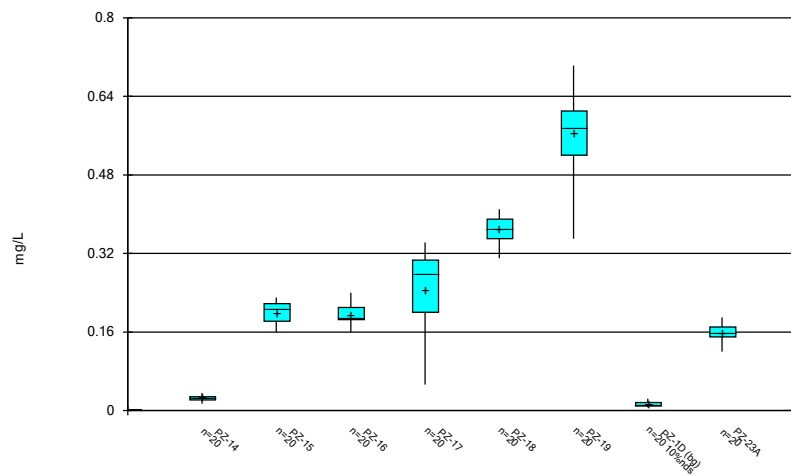
Constituent: Beryllium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



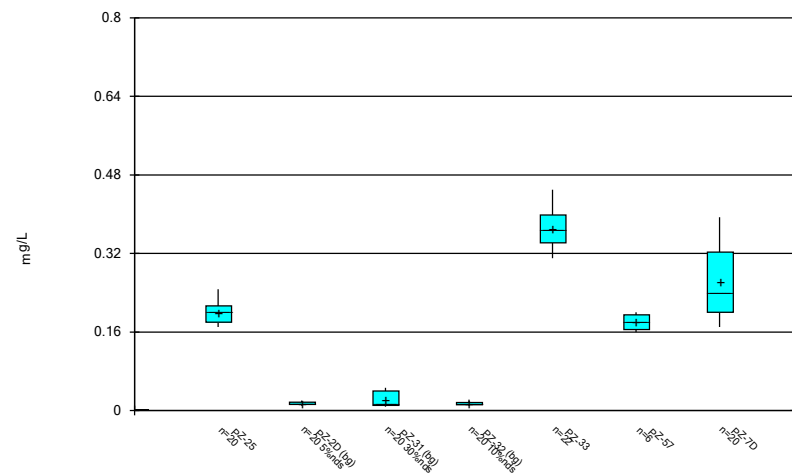
Constituent: Beryllium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



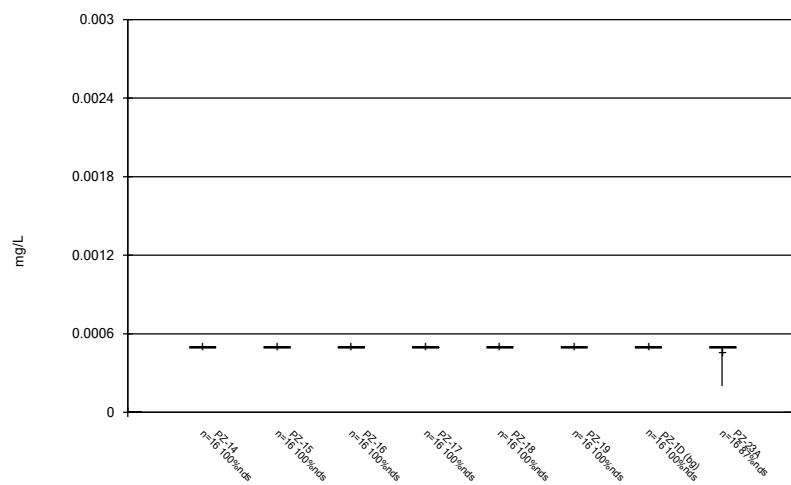
Constituent: Boron Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



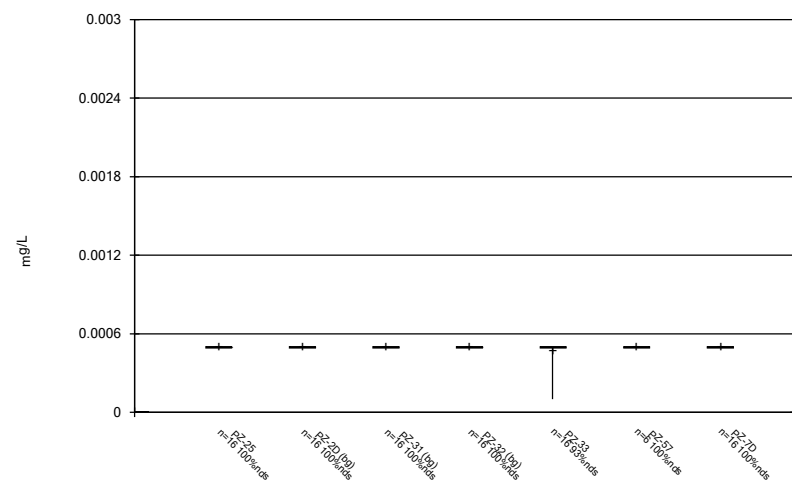
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



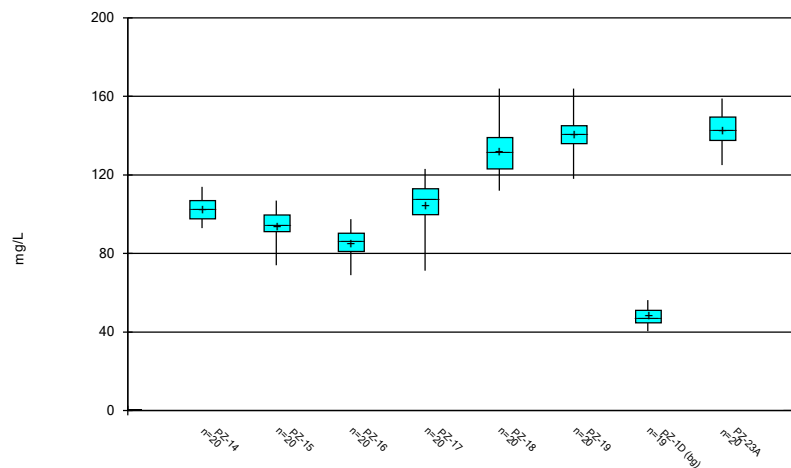
Constituent: Cadmium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



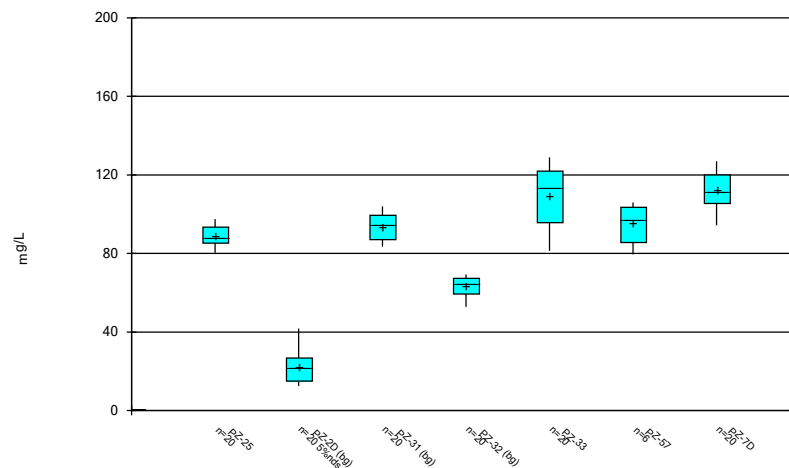
Constituent: Cadmium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



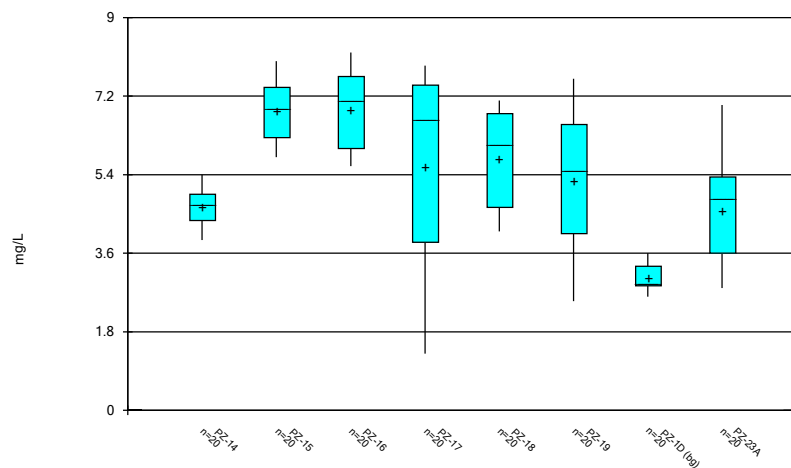
Constituent: Calcium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



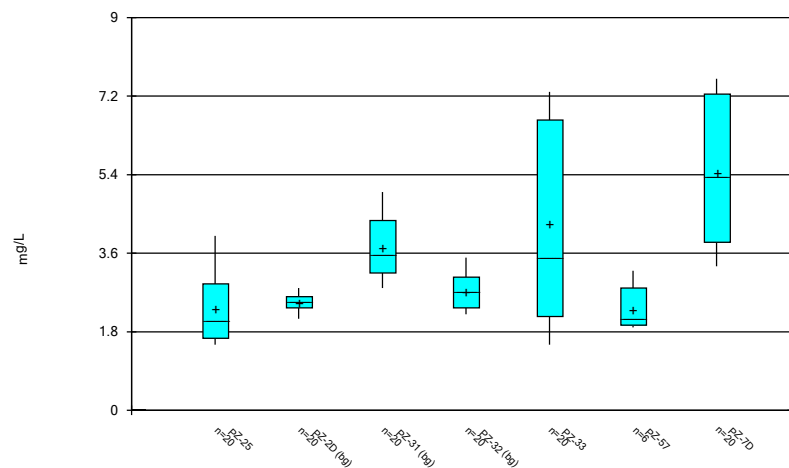
Constituent: Calcium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



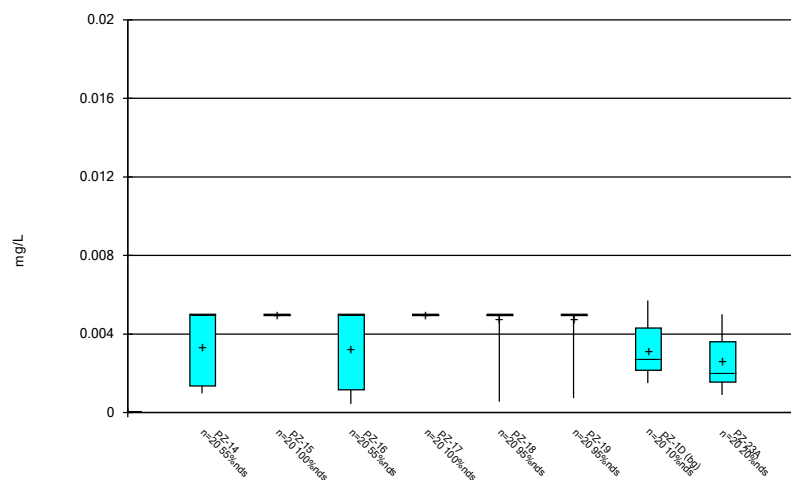
Constituent: Chloride Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



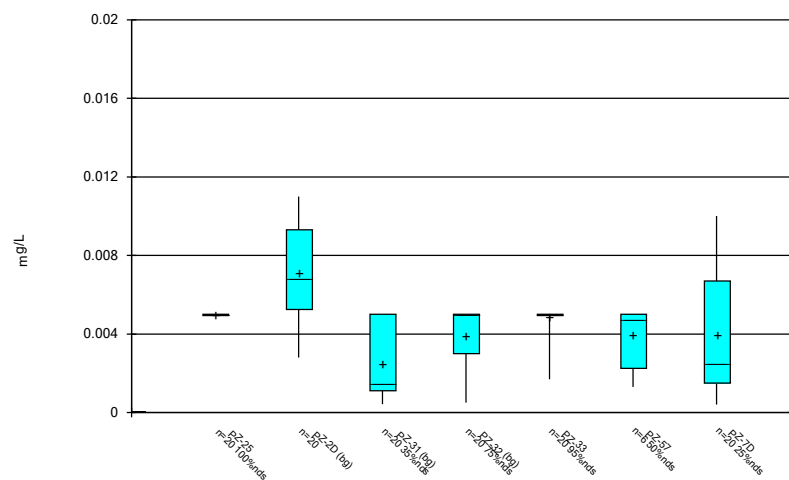
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



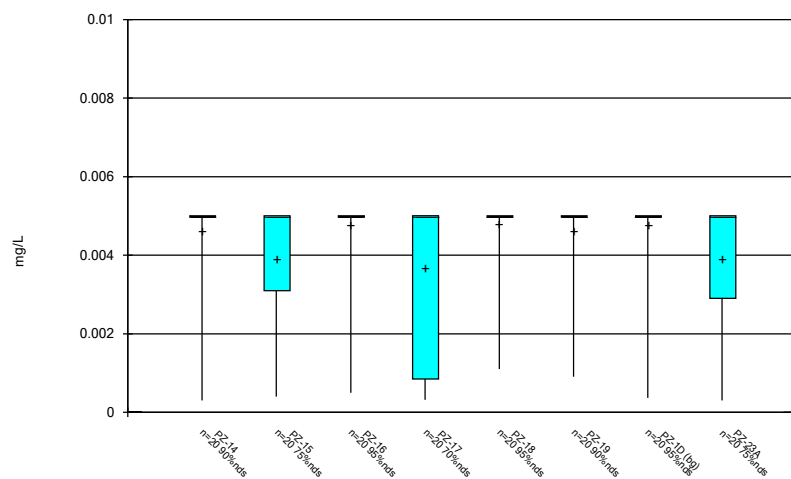
Constituent: Chromium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



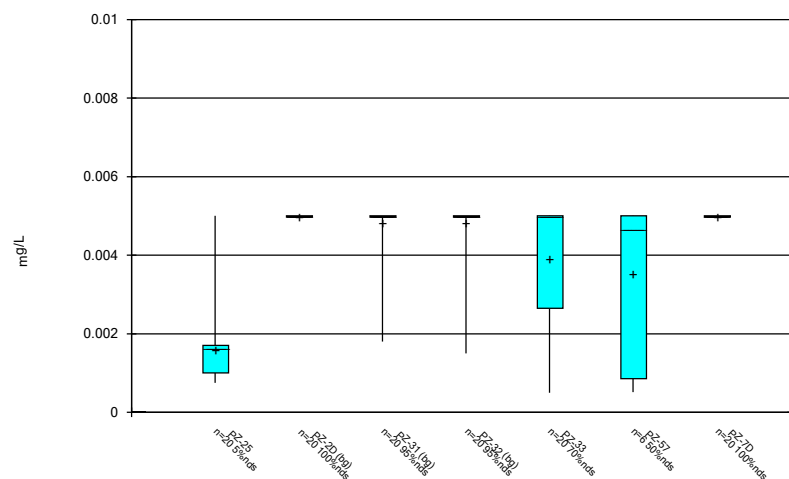
Constituent: Chromium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



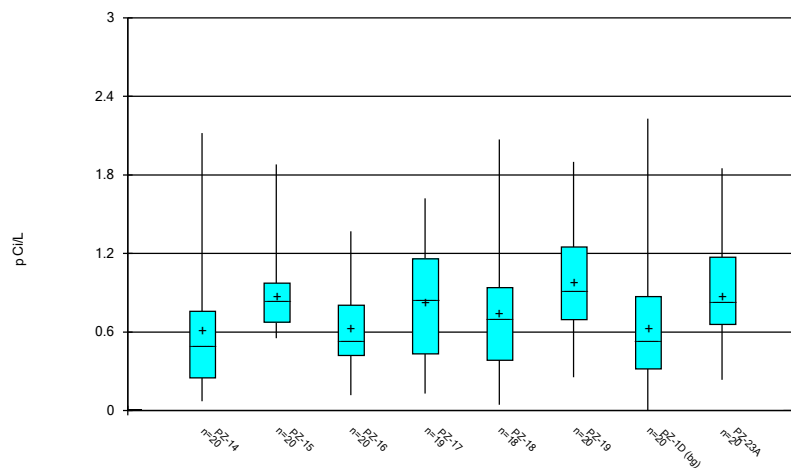
Constituent: Cobalt Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



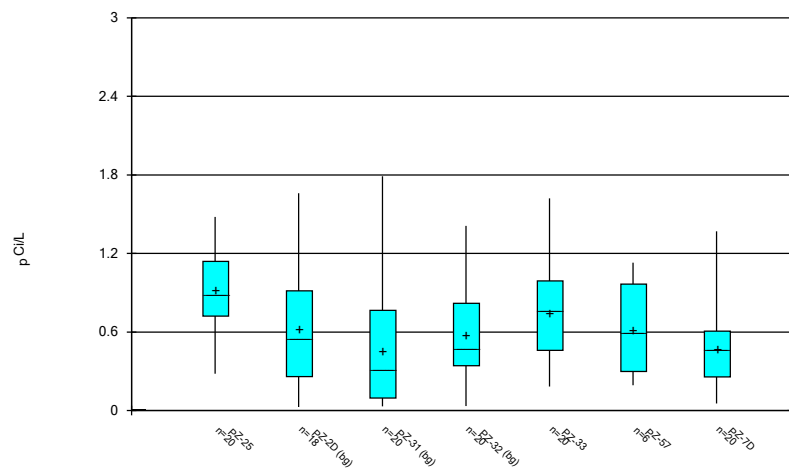
Constituent: Cobalt Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



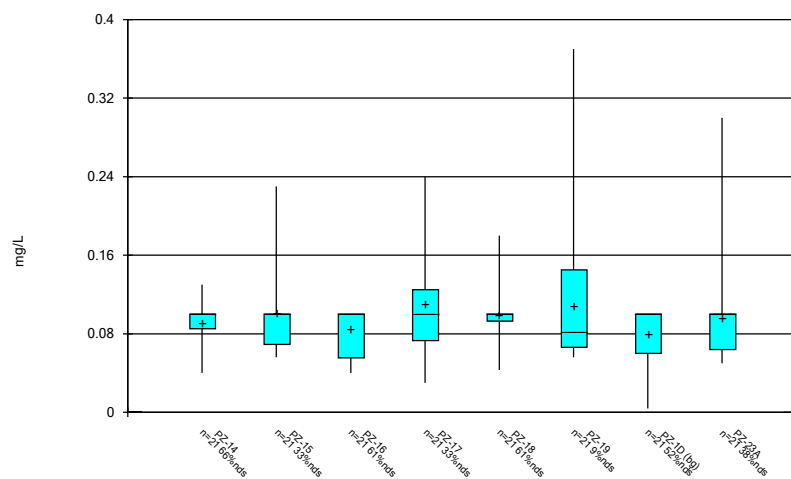
Constituent: Combined Radium 226 + 228 Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



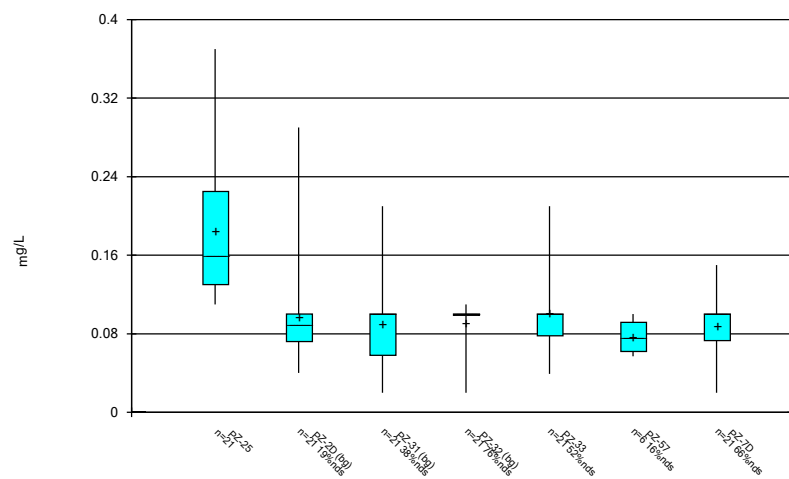
Constituent: Combined Radium 226 + 228 Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



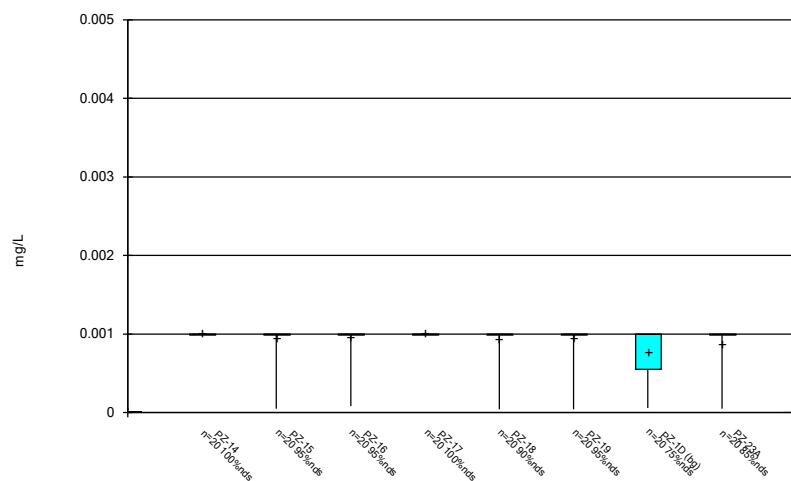
Constituent: Fluoride Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



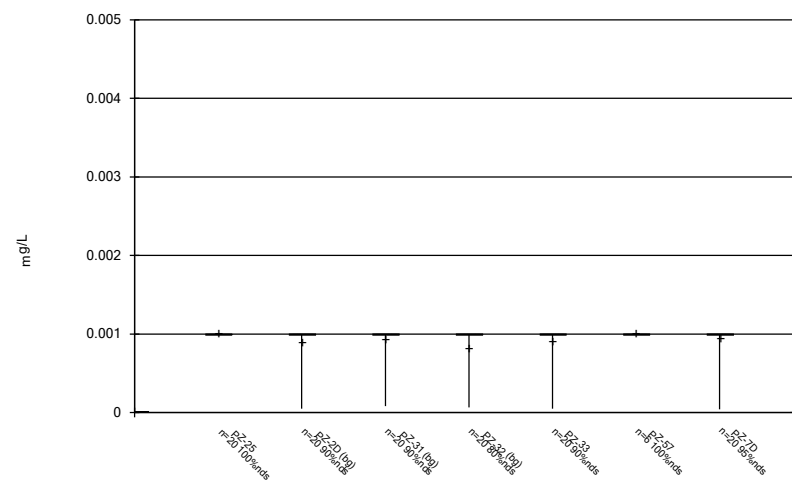
Constituent: Fluoride Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



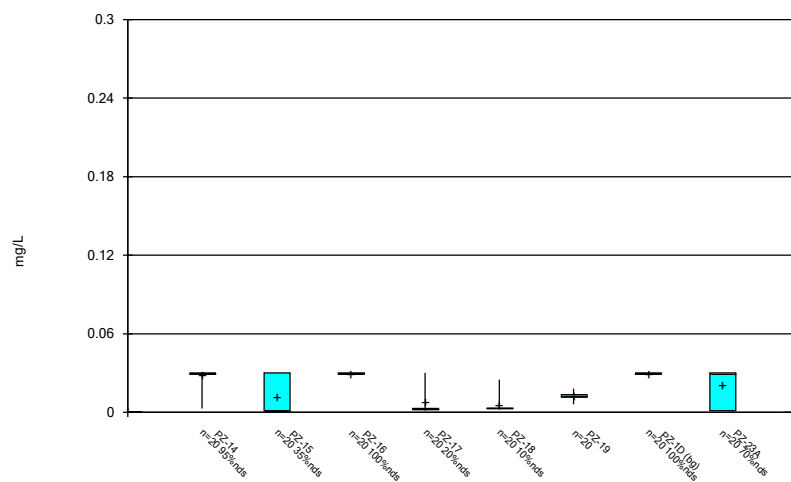
Constituent: Lead Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



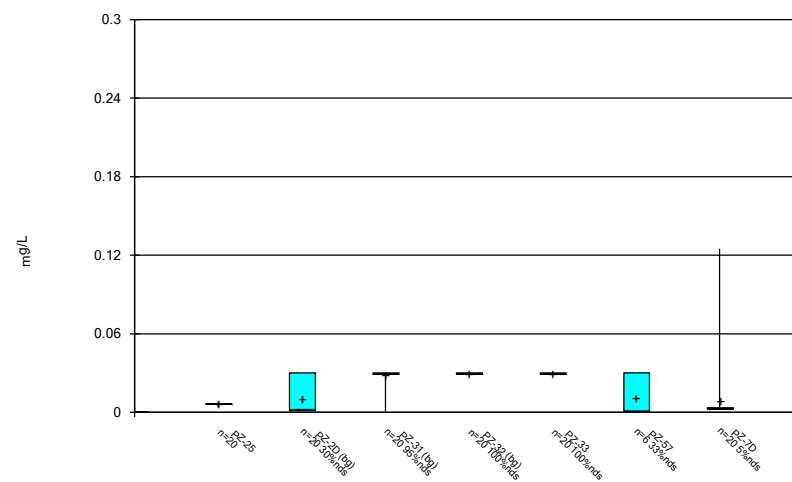
Constituent: Lead Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



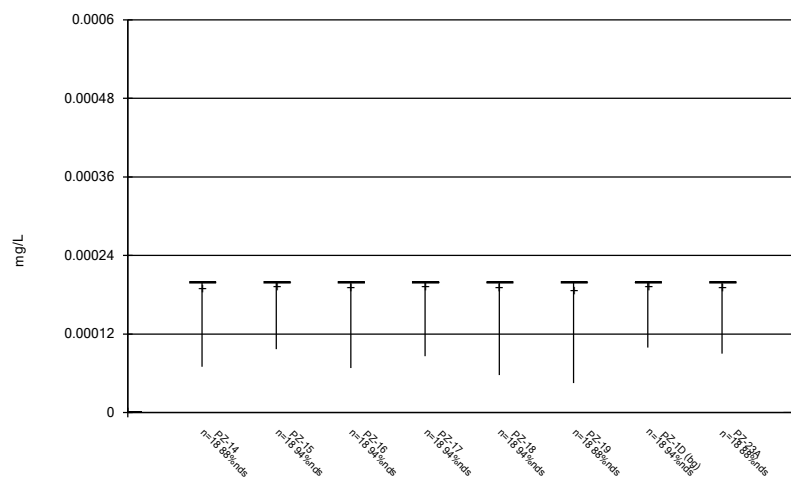
Constituent: Lithium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



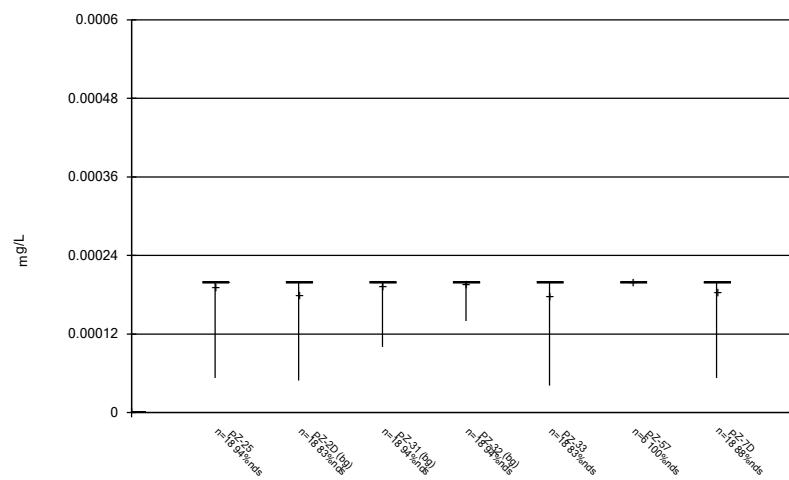
Constituent: Lithium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



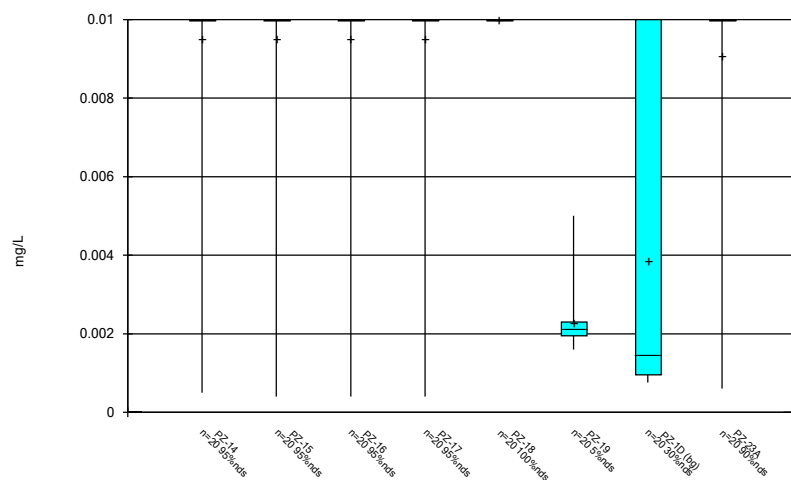
Constituent: Mercury Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



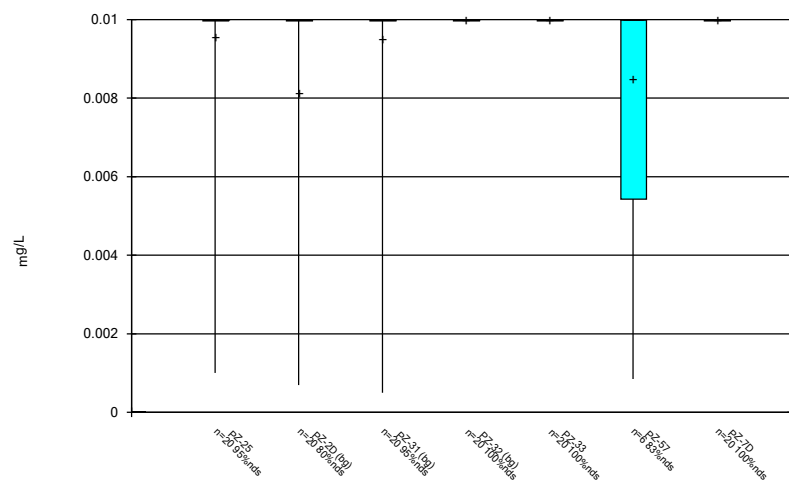
Constituent: Mercury Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



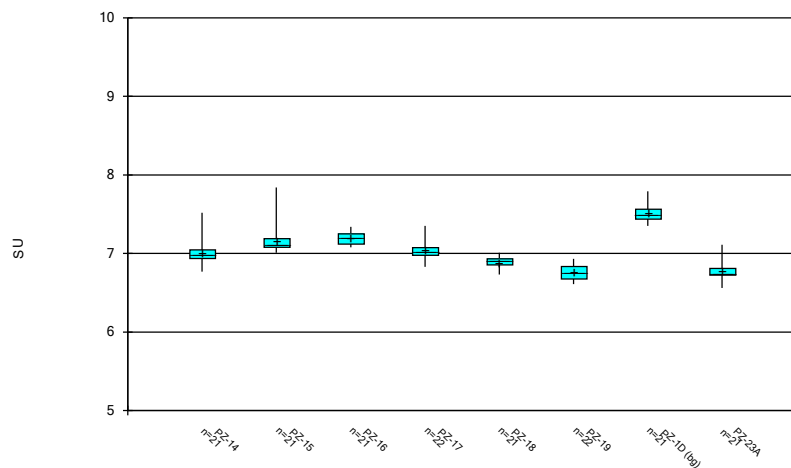
Constituent: Molybdenum Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



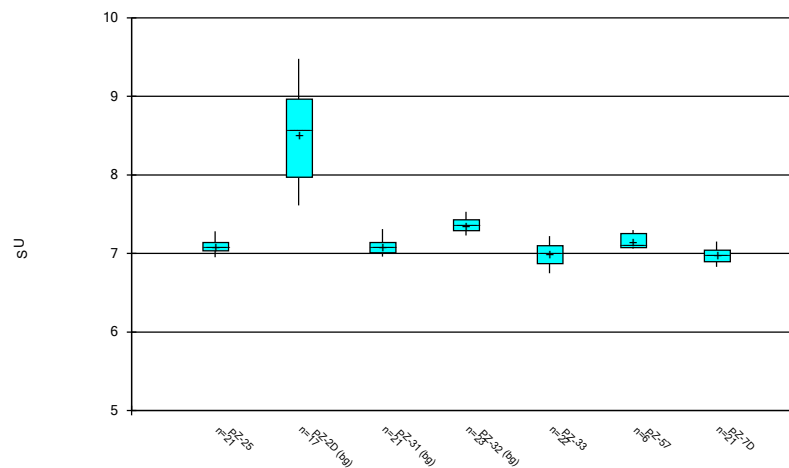
Constituent: Molybdenum Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



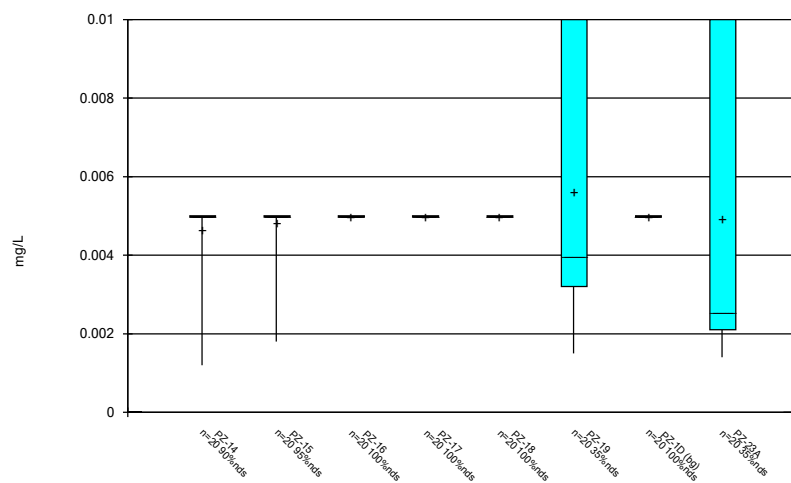
Constituent: pH Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



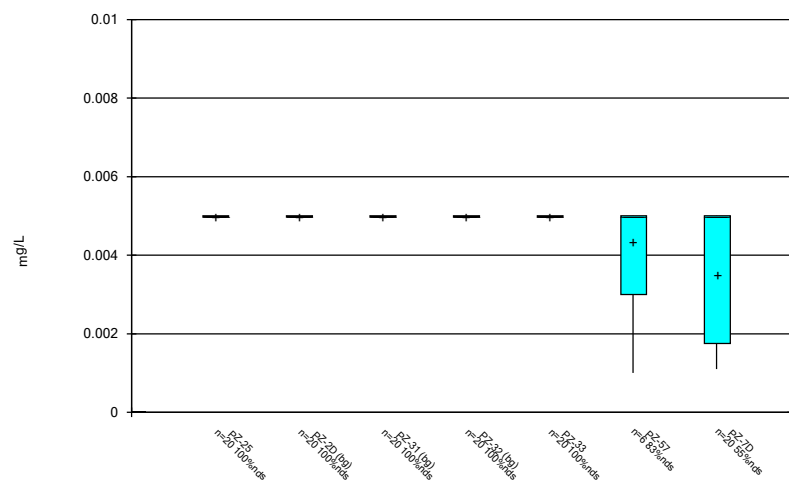
Constituent: pH Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



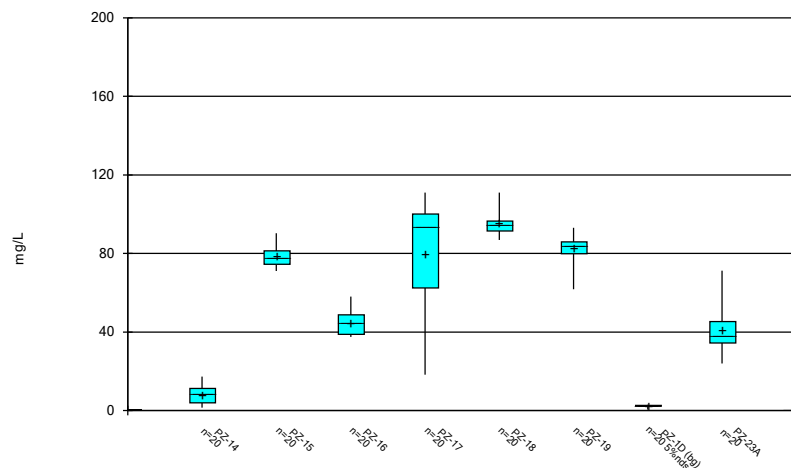
Constituent: Selenium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



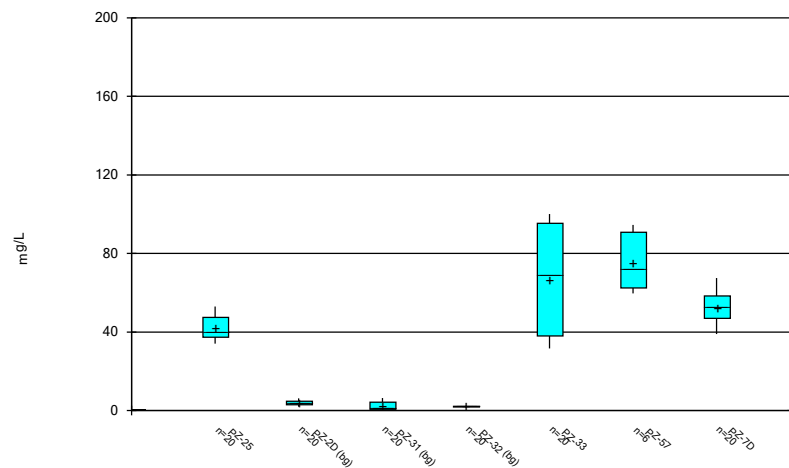
Constituent: Selenium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



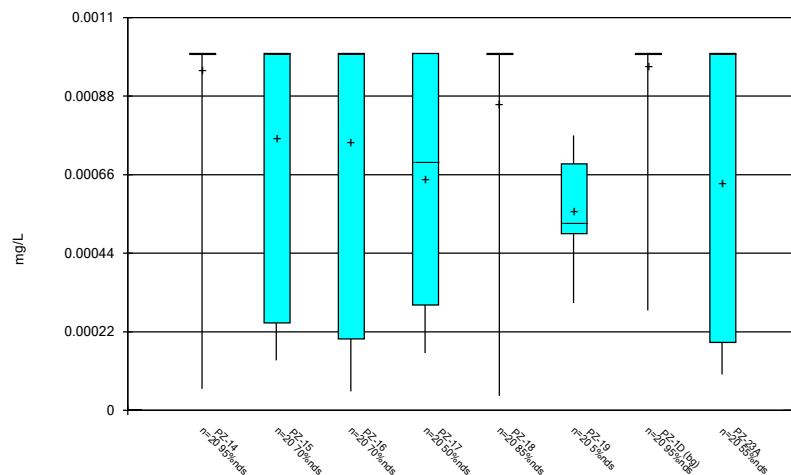
Constituent: Sulfate Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



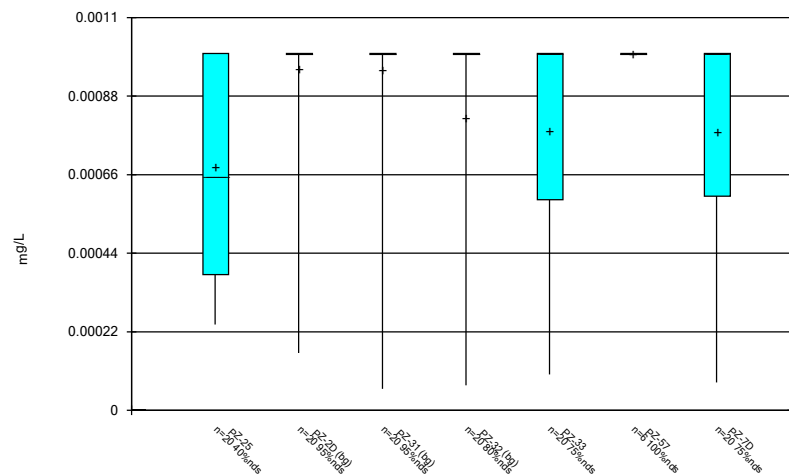
Constituent: Sulfate Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



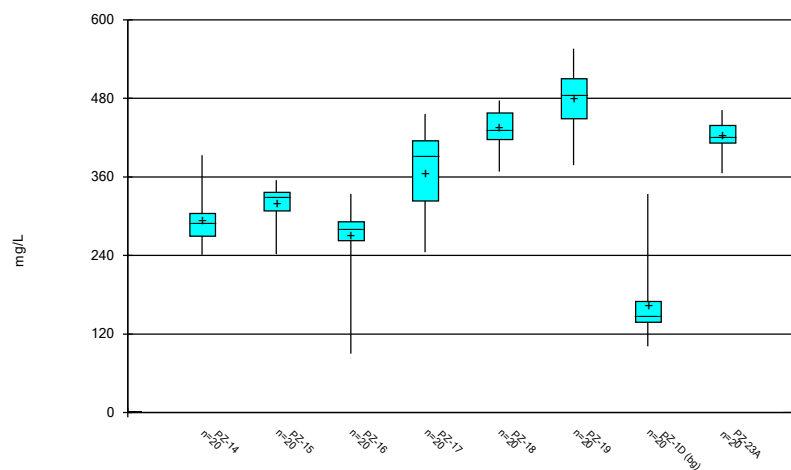
Constituent: Thallium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



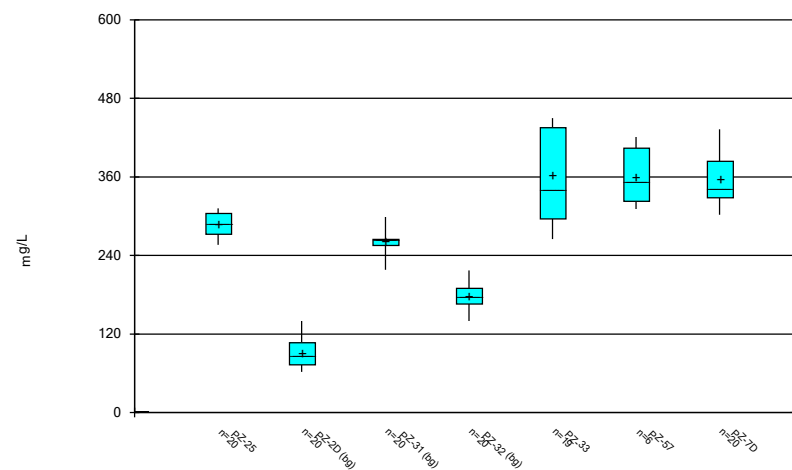
Constituent: Thallium Analysis Run 9/24/2024 4:18 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:18 PM
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:18 PM
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE C.

Outlier Summary

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:20 PM

	PZ-33 Barium (mg/L)	PZ-1D Calcium (mg/L)	PZ-33 pH (SU)	PZ-33 Total Dissolved Solids [TDS] (mg/L)
12/8/2016	0.162 (o)			503 (o)
7/11/2017			7.82 (o)	
7/11/2018		65.3 (o)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02721	n/a	8/14/2024	0.18	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02721	n/a	8/14/2024	0.19	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02721	n/a	8/15/2024	0.053	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02721	n/a	8/14/2024	0.37	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02721	n/a	8/14/2024	0.35	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02721	n/a	8/14/2024	0.16	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02721	n/a	8/13/2024	0.18	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02721	n/a	8/15/2024	0.35	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-57	0.02721	n/a	8/15/2024	0.18	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02721	n/a	8/15/2024	0.19	Yes	80	13.75	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	110	n/a	8/14/2024	139	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	110	n/a	8/14/2024	118	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	110	n/a	8/14/2024	141	Yes	79	1.266	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	5	n/a	8/14/2024	6.1	Yes	80	0	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-16	5	n/a	8/14/2024	5.9	Yes	80	0	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	8/14/2024	6.92	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	8/14/2024	6.9	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	8/14/2024	6.75	Yes	82	0	n/a	n/a	0.00057	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	5.898	n/a	8/14/2024	17.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	5.898	n/a	8/14/2024	78.4	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	5.898	n/a	8/14/2024	38.8	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	5.898	n/a	8/15/2024	18.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	5.898	n/a	8/14/2024	94.3	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	5.898	n/a	8/14/2024	61.7	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	5.898	n/a	8/14/2024	43.4	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	5.898	n/a	8/13/2024	34.8	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	5.898	n/a	8/15/2024	31.6	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-57	5.898	n/a	8/15/2024	59.7	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	5.898	n/a	8/15/2024	39	Yes	80	1.25	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-15	307.1	n/a	8/14/2024	342	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-16	307.1	n/a	8/14/2024	311	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-18	307.1	n/a	8/14/2024	468	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-19	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-33	307.1	n/a	8/15/2024	341	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-57	307.1	n/a	8/15/2024	348	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	307.1	n/a	8/15/2024	350	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02721	n/a	8/14/2024	0.035J	No	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02721	n/a	8/14/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02721	n/a	8/14/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02721	n/a	8/15/2024	0.053	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02721	n/a	8/14/2024	0.37	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02721	n/a	8/14/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02721	n/a	8/14/2024	0.16	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02721	n/a	8/13/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02721	n/a	8/15/2024	0.35	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-57	0.02721	n/a	8/15/2024	0.18	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02721	n/a	8/15/2024	0.19	Yes	80	13.75	None	In(x)	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-14	110	n/a	8/14/2024	100	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-15	110	n/a	8/14/2024	98	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-16	110	n/a	8/14/2024	97.5	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-17	110	n/a	8/15/2024	71.2	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-18	110	n/a	8/14/2024	139	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-19	110	n/a	8/14/2024	118	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	110	n/a	8/14/2024	141	Yes	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-25	110	n/a	8/13/2024	88.7	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-33	110	n/a	8/15/2024	99.2	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-57	110	n/a	8/15/2024	98.3	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	110	n/a	8/15/2024	104	No	79	1.266	None	No	0.0007523		Param Inter 1 of 2
Chloride (mg/L)	PZ-14	5	n/a	8/14/2024	4.4	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-15	5	n/a	8/14/2024	6.1	Yes	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-16	5	n/a	8/14/2024	5.9	Yes	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-17	5	n/a	8/15/2024	1.3	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-18	5	n/a	8/14/2024	4.2	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-19	5	n/a	8/14/2024	2.5	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-23A	5	n/a	8/14/2024	2.8	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-25	5	n/a	8/13/2024	1.6	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-33	5	n/a	8/15/2024	2.9	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-57	5	n/a	8/15/2024	2	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-7D	5	n/a	8/15/2024	3.3	No	80	0	n/a	n/a	0.0002971		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	8/14/2024	0.065J	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	8/14/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	8/13/2024	0.12	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-57	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	8/15/2024	0.1ND	No	84	46.43	n/a	n/a	0.0002728		NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	8/14/2024	7.52	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	8/14/2024	7.11	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	8/14/2024	7.15	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	8/15/2024	7.35	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	8/14/2024	6.92	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	8/14/2024	6.9	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	8/14/2024	6.75	Yes	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	8/13/2024	7.06	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	8/15/2024	7.07	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-57	9.48	6.96	8/15/2024	7.1	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	8/15/2024	7.05	No	82	0	n/a	n/a	0.00057		NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	5.898	n/a	8/14/2024	17.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	5.898	n/a	8/14/2024	78.4	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	5.898	n/a	8/14/2024	38.8	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	5.898	n/a	8/15/2024	18.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	5.898	n/a	8/14/2024	94.3	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	5.898	n/a	8/14/2024	61.7	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	5.898	n/a	8/14/2024	43.4	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	5.898	n/a	8/13/2024	34.8	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	5.898	n/a	8/15/2024	31.6	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-57	5.898	n/a	8/15/2024	59.7	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	5.898	n/a	8/15/2024	39	Yes	80	1.25	None	sqrt(x)	0.0007523		Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-14	307.1	n/a	8/14/2024	284	No	80	0	None	No	0.0007523		Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-15	307.1	n/a	8/14/2024	342	Yes	80	0	None	No	0.0007523		Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

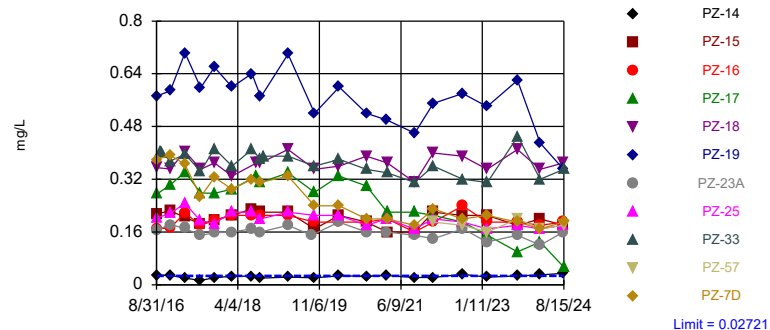
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	PZ-16	307.1	n/a	8/14/2024	311	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-17	307.1	n/a	8/15/2024	245	No	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-18	307.1	n/a	8/14/2024	468	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-19	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	307.1	n/a	8/14/2024	436	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-25	307.1	n/a	8/13/2024	273	No	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-33	307.1	n/a	8/15/2024	341	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-57	307.1	n/a	8/15/2024	348	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	307.1	n/a	8/15/2024	350	Yes	80	0	None	No	0.0007523	Param Inter 1 of 2

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18,
PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, PZ-
7D

Prediction Limit
Interwell Parametric

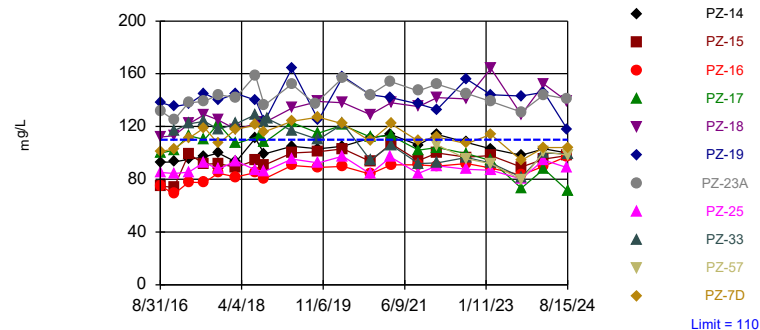


Background Data Summary (based on natural log transformation): Mean=-4.277, Std. Dev.=0.3391, n=80, 13.75% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9662, critical = 0.957. Kappa = 1.984 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 11 points to limit.

Constituent: Boron Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit
Interwell Parametric

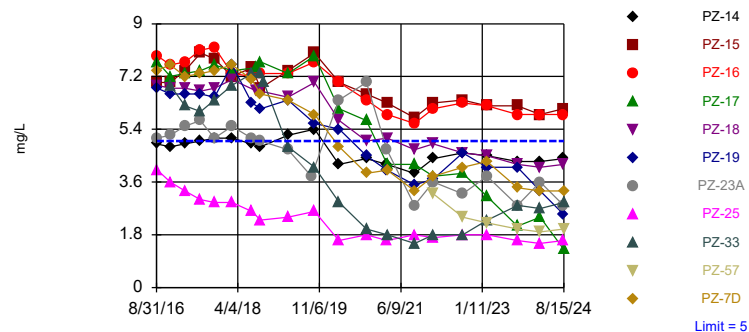


Background Data Summary: Mean=56.82, Std. Dev.=26.79, n=79, 1.266% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9639, critical = 0.957. Kappa = 1.985 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 11 points to limit.

Constituent: Calcium Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-15, PZ-16

Prediction Limit
Interwell Non-parametric

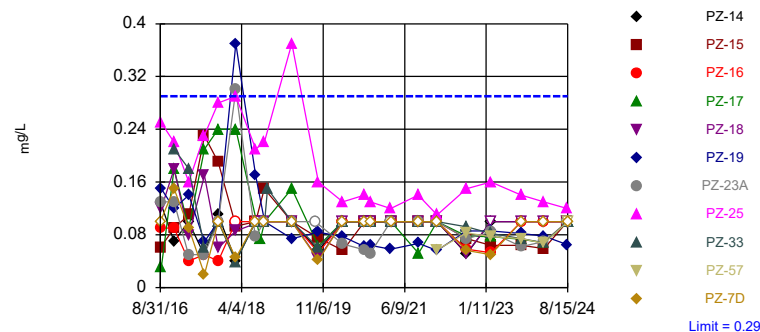


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.005926. Individual comparison alpha = 0.0002971 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Within Limit

Prediction Limit
Interwell Non-parametric



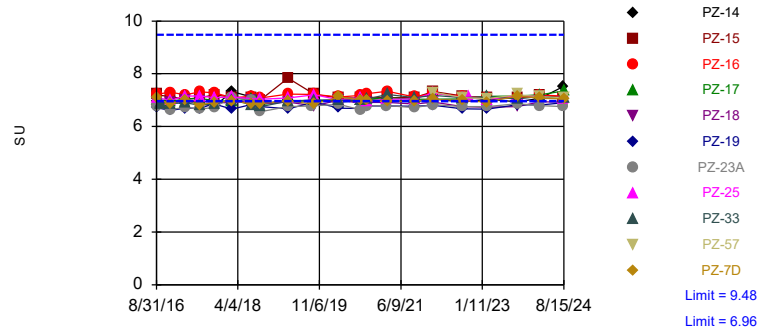
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 46.43% NDs. Annual per-constituent alpha = 0.005442. Individual comparison alpha = 0.0002728 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limits: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Non-parametric



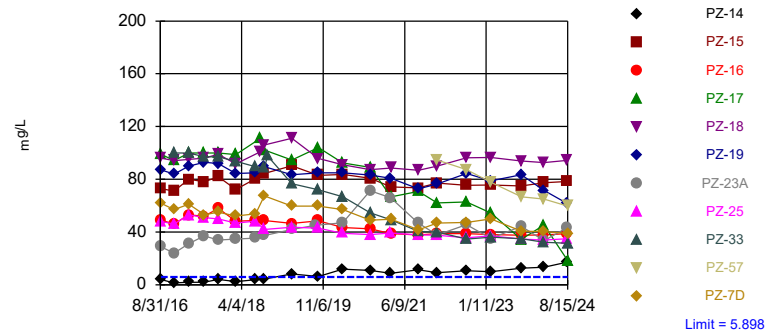
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 82 background values. Annual per-constituent alpha = 0.01137. Individual comparison alpha = 0.00057 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, PZ-7D

Prediction Limit

Interwell Parametric



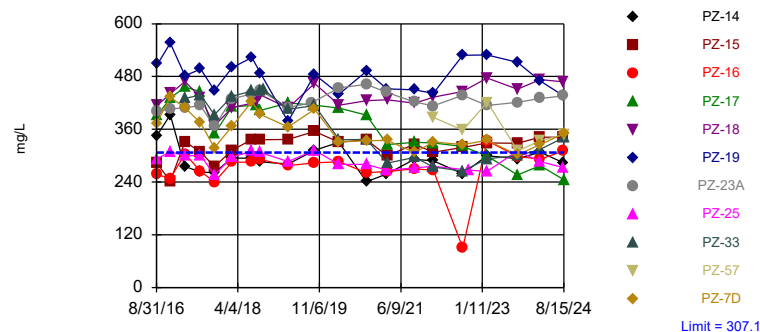
Background Data Summary (based on square root transformation): Mean=1.56, Std. Dev.=0.4376, n=80, 1.25% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9622, critical = 0.957. Kappa = 1.984 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-15, PZ-16, PZ-18, PZ-19, PZ-23A, PZ-33, PZ-57, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.4, Std. Dev.=67.38, n=80. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9662, critical = 0.957. Kappa = 1.984 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 11 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:25 PM View: Appendix III - Interwell P
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.379	0.215				
9/6/2016						0.17			
9/7/2016							0.355	0.573	0.276
9/8/2016									
10/5/2016									
10/10/2016									
10/18/2016									
12/6/2016	0.0096 (J)								
12/7/2016		0.0292 (J)	0.182	0.394	0.224	0.173			
12/8/2016							0.351	0.588	0.303
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.405		0.342
3/23/2017								0.703	
7/11/2017	0.0067 (J)	0.0137 (J)	0.149			0.18			
7/12/2017				0.267	0.184		0.35	0.598	0.278
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158		0.197	0.195	0.37		0.277
10/19/2017				0.326				0.66	
2/20/2018	0.024 (J)	0.026 (J)	0.16						
2/21/2018				0.29	0.21	0.21	0.33	0.6	0.29
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	0.017 (J)	0.026 (J)	0.17						
7/12/2018				0.32	0.23	0.21		0.64	
8/15/2018							0.37		
8/16/2018									0.33
8/17/2018									
9/12/2018	0.012 (J)	0.02 (J)							
9/13/2018			0.16	0.31	0.22	0.21	0.37		
9/14/2018								0.57	0.31
10/4/2018									
10/24/2018									
3/26/2019	0.0082								
3/27/2019		0.023	0.18			0.21	0.41		
3/28/2019				0.33	0.22			0.7	0.34
9/10/2019			0.15						
10/1/2019	0.0064 (X)								
10/2/2019		0.021 (X)			0.17	0.19			0.28
10/3/2019				0.24			0.35	0.52	
3/24/2020	0.013 (J)								
3/25/2020		0.027 (J)	0.19						0.33
3/26/2020				0.24	0.21	0.19	0.36	0.6	
10/6/2020	0.015 (J)	0.026 (J)	0.16			0.19			
10/7/2020				0.2	0.19		0.39	0.52	0.3
3/3/2021	0.01 (J)	0.028 (J)	0.16					0.5	
3/4/2021				0.2	0.16	0.2	0.37		0.22
3/8/2021									
9/14/2021	<0.04								
9/15/2021		0.022 (J)	0.15		0.16	0.16			

Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
9/16/2021				0.18			0.31	0.46	0.22
1/25/2022	0.01 (J)								
1/26/2022		0.022 (J)	0.14		0.22	0.19			
1/27/2022				0.23			0.4	0.55	0.21
8/24/2022	0.011 (J)								
8/25/2022		0.032 (J)	0.17 (J)	0.2	0.21	0.24	0.39	0.58	0.19 (J)
8/26/2022									
2/14/2023	0.011 (J)	0.023 (J)	0.13						
2/15/2023				0.21	0.21	0.19	0.35	0.54	
2/16/2023									0.15
9/19/2023	0.024 (J)					0.19			
9/20/2023		0.027 (J)	0.15	0.19	0.18		0.41	0.62	0.1
9/21/2023									
2/27/2024									
2/28/2024	0.016 (J)		0.12	0.17	0.2				
2/29/2024		0.03 (J)				0.18	0.35	0.43	0.13
8/13/2024	<0.04								
8/14/2024		0.035 (J)	0.16		0.18	0.19	0.37	0.35	
8/15/2024				0.19					0.053

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	0.204					
10/5/2016		0.404				
10/10/2016		0.401				
10/18/2016			0.0156 (J)	0.0174 (J)		
12/6/2016				0.0133 (J)		
12/7/2016			0.0157 (J)			
12/8/2016	0.216	0.375				
3/21/2017				0.0103 (J)		
3/22/2017	0.247					
3/23/2017		0.396	0.0103 (J)			
7/11/2017	0.194		<0.04	<0.04		
7/12/2017		0.343				
10/17/2017			0.0142 (J)	0.0116 (J)		
10/18/2017	0.186					
10/19/2017		0.413				
2/20/2018			0.011 (J)	0.046 (J)		
2/21/2018	0.22	0.36				
4/12/2018					0.016 (J)	
5/23/2018					0.018 (J)	
6/13/2018					0.014 (J)	
7/11/2018			0.014 (J)	0.014 (J)	0.017 (J)	
7/12/2018	0.22	0.41				
8/15/2018						
8/16/2018						
8/17/2018					0.015 (J)	
9/12/2018				0.0098 (J)	0.013 (J)	
9/13/2018	0.2		0.013 (J)			
9/14/2018		0.38				
10/4/2018		0.39			0.016 (J)	
10/24/2018					0.018 (J)	
3/26/2019				0.0076		
3/27/2019	0.22		0.012		0.016	
3/28/2019		0.39				
9/10/2019						
10/1/2019			0.011 (X)			
10/2/2019	0.21			0.0084 (X)	0.011 (X)	
10/3/2019		0.36				
3/24/2020					0.015 (J)	
3/25/2020	0.21		0.016 (J)	0.011 (J)		
3/26/2020		0.38				
10/6/2020			0.015 (J)	0.011 (J)	0.018 (J)	
10/7/2020	0.18	0.35				
3/3/2021	0.2		0.022 (J)	0.0087 (J)		
3/4/2021		0.34				
3/8/2021					0.013 (J)	
9/14/2021			0.012 (J)		0.011 (J)	
9/15/2021	0.17			<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)	PZ-57
9/16/2021		0.31				
1/25/2022					0.013 (J)	
1/26/2022	0.2		0.01 (J)	<0.04		
1/27/2022		0.36				0.19
8/24/2022	0.19	0.32	0.022 (J)	<0.04	0.012 (J)	
8/25/2022						
8/26/2022						0.18
2/14/2023			0.012 (J)	<0.04	0.01 (J)	
2/15/2023	0.17					
2/16/2023		0.31				0.16
9/19/2023	0.18		0.011 (J)	0.022 (J)	0.011 (J)	
9/20/2023						
9/21/2023		0.45				0.2
2/27/2024	0.17		<0.04		<0.04	
2/28/2024				0.016 (J)		
2/29/2024		0.32				0.17
8/13/2024	0.18		0.017 (J)	<0.04	0.017 (J)	
8/14/2024						
8/15/2024		0.35				0.18

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							100	112	138
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							102	113	135
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	113	122	
3/23/2017									137
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		110	129	145
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	122	125	
10/19/2017				107					140
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	107	118	145
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	65.3 (o)	111	159						
7/12/2018				121	94.5	85.2			140
8/15/2018								123	
8/16/2018							113		
8/17/2018									
9/12/2018	46.6	99.3							
9/13/2018			136	116	90.8	80.2		123	
9/14/2018							108		124
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5		134	
3/28/2019				124	100		123		164
9/10/2019			137						
10/1/2019	46.8								
10/2/2019		103			101	89.1	115		
10/3/2019				127				139	125
3/24/2020	48								
3/25/2020		105	157				121		
3/26/2020				122	103	89.8		138	158
10/6/2020	50.5	111	144			84			
10/7/2020				109	93.5		112	129	144
3/3/2021	54.7	114	154						142
3/4/2021				122	107	90.9	113	138	
3/8/2021									
9/14/2021	51								
9/15/2021		106	147		94	91			
9/16/2021				109			102	135	137
1/25/2022	53.1								

Prediction Limit

Page 2

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		114	152		100	90.1			
1/27/2022				112			104	142	133
8/24/2022	45.8								
8/25/2022		108	145	107	96.7	92	99.5	141	156
8/26/2022									
2/14/2023	56.2	103	139						
2/15/2023				114	98.1	88.5		164 (M1)	144
2/16/2023							94.1		
9/19/2023	44.7					83.3			
9/20/2023		98.2	131	94.3	89.3		73.3	129	143
9/21/2023									
2/27/2024									
2/28/2024	55		144	104	95.4				
2/29/2024		103				89.9	87.8	152	146
8/13/2024	48.5								
8/14/2024		100	141		98	97.5		139	118
8/15/2024				104			71.2		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	85.2					
10/18/2016		57.2	88.3			
12/6/2016			83.4			
12/7/2016		52.8				
12/8/2016	84.5			117		
3/21/2017			94			
3/22/2017	85.3					
3/23/2017		59.1		122		
7/11/2017	93	59.7	86			
7/12/2017				124		
10/17/2017		64.9	91.6			
10/18/2017	87.6					
10/19/2017				118		
2/20/2018		64.1	86.5			
2/21/2018	93.9			122		
4/12/2018					<25	
5/23/2018					17.6 (J)	
6/13/2018					14.3	
7/11/2018		60.4	95.4		15.6	
7/12/2018	87.1			129		
8/15/2018						
8/16/2018						
8/17/2018					27	
9/12/2018			86		26.9	
9/13/2018	85.8	58.7				
9/14/2018				123		
10/4/2018				126	25	
10/24/2018					23.8	
3/26/2019			87.3			
3/27/2019	95.2	54.6			26.1	
3/28/2019				117		
9/10/2019						
10/1/2019		64.3				
10/2/2019	92.3		95.5		21	
10/3/2019				110		
3/24/2020					26.5	
3/25/2020	97.5	66.6	95.8			
3/26/2020				122		
10/6/2020		62.8	98.8		22.7	
10/7/2020	84.2			94.7		
3/3/2021	96.8	64.8 (M1)	104			
3/4/2021				106		
3/8/2021					41.7	
9/14/2021		67.8			13.4	
9/15/2021	84.4		101			
9/16/2021				92		
1/25/2022					20.7	

Prediction Limit

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Constituent: Calcium (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
1/26/2022	90.2	69.2	102			
1/27/2022				92.5		106
8/24/2022	87.6	67.1	95.2	96.5	27.3	
8/25/2022						
8/26/2022						95.5
2/14/2023		69.3	99.9		30.2	
2/15/2023	86.9					
2/16/2023				92.2 (M1)		91.6
9/19/2023	80.3	64.6	86.9		13.7	
9/20/2023						
9/21/2023				81.4		79.5
2/27/2024	94.6	67.5			19.2	
2/28/2024			99.9			
2/29/2024				100		101
8/13/2024	88.7	67.6	93.2		14.5	
8/14/2024						
8/15/2024				99.2		98.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	3.1								
8/31/2016		4.9	5.1						
9/1/2016				7.4	7				
9/6/2016						7.9			
9/7/2016							7.7	6.9	6.8
9/8/2016									
10/18/2016									
12/6/2016	3.4								
12/7/2016		4.8	5.2	7.6	7	7.6			
12/8/2016							7.2	6.8	6.6
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.2	7.4	7.7	7.3	6.8	
3/23/2017									6.6
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				7.3	8		7.4	6.7	6.6
10/17/2017	3.3								
10/18/2017		5.1	5.1		7.8	8.2	7.6	6.8	
10/19/2017				7.4					6.5
2/20/2018	3.3	5.1	5.5						
2/21/2018				7.6	7.2	7.3	7.4	7.1	7.6
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.9	4.9	5.1						
7/12/2018				7.1	7.5	7.2			6.3
8/15/2018								6.7	
8/16/2018							7.5		
8/17/2018									
9/12/2018	2.8	4.8							
9/13/2018			5	6.6	6.8	7.3		6.7	
9/14/2018							7.7		6.1
10/4/2018									
10/24/2018									
3/26/2019	3.3								
3/27/2019		5.2	4.7			7.3		6.5	
3/28/2019				6.4	7.4		7.3		6.4
9/10/2019			3.8						
10/1/2019	3.6								
10/2/2019		5.4			8	7.7	7.9		
10/3/2019				5.9				7	5.6
3/24/2020	2.8								
3/25/2020		4.2	6.4				6.1		
3/26/2020				4.8	7	7		5.7	5.4
10/6/2020	3	4.4	7			6.4			
10/7/2020				3.9	6.6		5.7	5	4.5
3/3/2021	2.8	4.2	4.7						4
3/4/2021				4	6.3	5.9	4.2	5.1	
3/8/2021									
9/14/2021	2.9								
9/15/2021		3.9	2.8		5.8	5.6			
9/16/2021				3.3			4.2	4.7	3.5
1/25/2022	2.9								

Prediction Limit

Page 2

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		4.4	3.6		6.3	6.1			
1/27/2022				3.8			3.8	4.9	3.7
8/24/2022	2.6								
8/25/2022		4.6	3.2	4.1	6.4	6.3	3.9	4.6	4.6
8/26/2022									
2/14/2023	3	4.5	3.8						
2/15/2023				4.3	6.2	6.2		4.5	4.1
2/16/2023							3.1		
9/19/2023	2.9					5.9			
9/20/2023		4.3	2.8	3.4	6.2		2.1	4.2	4.1
9/21/2023									
2/27/2024									
2/28/2024	2.8		3.6	3.3	5.9				
2/29/2024		4.3				5.9	2.4	4.1	3.3
8/13/2024	2.9								
8/14/2024		4.4	2.8		6.1	5.9		4.2	2.5
8/15/2024				3.3			1.3		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	4					
10/18/2016		3.5	4.5			
12/6/2016			5			
12/7/2016		3.2				
12/8/2016	3.6			6.9		
3/21/2017			4.3			
3/22/2017	3.3					
3/23/2017		2.9		6.2		
7/11/2017	3	3.1	4.7			
7/12/2017				6		
10/17/2017		3	4.6			
10/18/2017	2.9					
10/19/2017				6.4		
2/20/2018		3	4.4			
2/21/2018	2.9			6.9		
4/12/2018					2.6	
5/23/2018					2.5	
6/13/2018					2.5	
7/11/2018		2.8	4		2.6	
7/12/2018	2.6			7.3		
8/15/2018						
8/16/2018						
8/17/2018					2.6	
9/12/2018			3.7		2.3	
9/13/2018	2.3	2.2				
9/14/2018				7.3		
10/4/2018				7	2.7	
10/24/2018					2.8	
3/26/2019			3.8			
3/27/2019	2.4	3.1			2.5	
3/28/2019				4.8		
9/10/2019						
10/1/2019		3.1				
10/2/2019	2.6		4.3		2.7	
10/3/2019				4.1		
3/24/2020					2.2	
3/25/2020	1.6	2.2	3			
3/26/2020				2.9		
10/6/2020		2.3	3.4		2.3	
10/7/2020	1.8			2		
3/3/2021	1.6	2.2	3.1			
3/4/2021				1.8		
3/8/2021					2.4	
9/14/2021		2.2			2.5	
9/15/2021	1.8		2.8			
9/16/2021				1.5		
1/25/2022					2.4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
1/26/2022	1.7	2.4	3.2			
1/27/2022				1.8		3.2
8/24/2022	1.8	2.7	3	1.8	2.1	
8/25/2022						
8/26/2022						2.4
2/14/2023		2.7	3.3		2.6	
2/15/2023	1.8					
2/16/2023				2.3		2.2
9/19/2023	1.6	2.6	3.4		2.3	
9/20/2023						
9/21/2023				2.8		2
2/27/2024	1.5	2.5			2.4	
2/28/2024			3.1			
2/29/2024				2.7		1.9
8/13/2024	1.6	2.5	3.2		2.4	
8/14/2024						
8/15/2024				2.9		2

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	0.06 (J)								
8/31/2016		0.13 (J)	0.13 (J)						
9/1/2016				<0.1	0.06 (J)				
9/6/2016						0.09 (J)			
9/7/2016							0.03 (J)	0.12 (J)	0.15 (J)
9/8/2016									
10/18/2016									
12/6/2016	0.06 (J)								
12/7/2016		0.07 (J)	0.13 (J)	0.15 (J)	0.09 (J)	0.09 (J)			
12/8/2016							0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.09 (J)	0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)	
3/23/2017									0.14 (J)
7/11/2017	0.05 (J)	0.05 (J)	0.05 (J)			0.05 (J)			
7/12/2017				0.02 (J)	0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1		0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)	
10/19/2017				<0.1					<0.1
2/20/2018	0.098 (J)	0.04 (J)	0.3 (J)						
2/21/2018				0.045 (J)	0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	<0.1	<0.1	0.077 (J)						
7/12/2018				<0.1	<0.1	<0.1			0.17 (J)
8/15/2018								<0.1	
8/16/2018							0.073 (J)		
8/17/2018									
9/12/2018	0.034 (J)	<0.1							
9/13/2018			<0.1	<0.1	0.15 (J)	<0.1		<0.1	
9/14/2018							<0.1		<0.1
10/4/2018									
10/24/2018									
3/26/2019	<0.1								
3/27/2019		<0.1	<0.1			<0.1		<0.1	
3/28/2019				<0.1	0.1		0.15		0.074
9/10/2019			<0.1						
10/1/2019	0.062 (X)								
10/2/2019		0.056 (X)			0.075 (X)	0.053 (X)	0.063 (X)		
10/3/2019				0.041 (X)				0.043 (X)	0.084 (X)
3/24/2020	<0.1								
3/25/2020		<0.1	0.066 (J)				<0.1		
3/26/2020				<0.1	0.056 (J)	<0.1		<0.1	0.077 (J)
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020								<0.1	
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		<0.1	<0.1	0.064 (J)
3/3/2021	<0.1	<0.1	<0.1						0.058 (J)
3/4/2021				<0.1	<0.1	<0.1	<0.1	<0.1	
3/8/2021									
9/14/2021	<0.1								

Prediction Limit

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Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
9/15/2021		<0.1	<0.1		<0.1	<0.1			
9/16/2021				<0.1			0.052 (J)	<0.1	0.067 (J)
1/25/2022	<0.1								
1/26/2022		<0.1	<0.1		<0.1	<0.1			
1/27/2022				<0.1			<0.1	<0.1	0.056 (J)
8/24/2022	0.08 (J)								
8/25/2022		0.051 (J)	0.074 (J)	0.056 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)
8/26/2022									
2/14/2023	0.063 (J)	<0.1	0.084 (J)						
2/15/2023				0.05 (J)	0.064 (J)	0.053 (J)		<0.1	0.086 (J)
2/16/2023							0.077 (J)		
9/19/2023	0.06 (J)					<0.1			
9/20/2023		<0.1	0.062 (J)	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)
9/21/2023									
2/27/2024									
2/28/2024	<0.1		0.07 (J)	<0.1	0.059 (J)				
2/29/2024		<0.1				<0.1	0.068 (J)	<0.1	0.078 (J)
8/13/2024	<0.1								
8/14/2024		<0.1	<0.1		<0.1	<0.1		<0.1	0.065 (J)
8/15/2024				<0.1			<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	0.25 (J)					
10/18/2016		0.11 (J)	0.16 (J)			
12/6/2016			0.15 (J)			
12/7/2016		0.07 (J)				
12/8/2016	0.22 (J)			0.21 (J)		
3/21/2017			0.02 (J)			
3/22/2017	0.16 (J)					
3/23/2017		<0.1		0.18 (J)		
7/11/2017	0.23 (J)	0.02 (J)	0.06 (J)			
7/12/2017				0.06 (J)		
10/17/2017		<0.1	0.05 (J)			
10/18/2017	0.28 (J)					
10/19/2017				<0.1		
2/20/2018		<0.1	0.21 (J)			
2/21/2018	0.29 (J)			0.039 (J)		
4/12/2018					<0.1	
5/23/2018					0.063 (J)	
6/13/2018					0.11 (J)	
7/11/2018		<0.1	0.087 (J)		<0.1	
7/12/2018	0.21 (J)			<0.1		
8/15/2018						
8/16/2018						
8/17/2018					<0.1	
9/12/2018			0.049 (J)		0.093 (J)	
9/13/2018	0.22 (J)	<0.1				
9/14/2018				<0.1		
10/4/2018				0.15 (J)	0.15 (J)	
10/24/2018					0.29 (J)	
3/26/2019			<0.1			
3/27/2019	0.37	<0.1			0.04	
3/28/2019				<0.1		
9/10/2019						
10/1/2019		0.042 (X)				
10/2/2019	0.16 (X)		0.057 (X)		0.11 (X)	
10/3/2019				0.06 (X)		
3/24/2020					0.051 (J)	
3/25/2020	0.13 (J)	<0.1	<0.1			
3/26/2020				<0.1		
8/25/2020		<0.1	<0.1			
8/26/2020	0.14			<0.1	0.057 (J)	
8/27/2020						
10/6/2020		<0.1	<0.1		0.073 (J)	
10/7/2020	0.13			<0.1		
3/3/2021	0.12	<0.1	<0.1			
3/4/2021				<0.1		
3/8/2021					<0.1	
9/14/2021		<0.1			0.089 (J)	

Prediction Limit

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Constituent: Fluoride (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
9/15/2021	0.14		<0.1			
9/16/2021				<0.1		
1/25/2022					0.071 (J)	
1/26/2022	0.11	<0.1	<0.1			
1/27/2022				<0.1		0.057 (J)
8/24/2022	0.15	0.058 (J)	0.069 (J)	0.092 (J)	0.088 (J)	
8/25/2022						
8/26/2022						0.083 (J)
2/14/2023		<0.1	0.059 (J)		0.076 (J)	
2/15/2023	0.16					
2/16/2023				0.082 (J)		0.077 (J)
9/19/2023	0.14	<0.1	0.053 (J)		0.094 (J)	
9/20/2023						
9/21/2023				0.074 (J)		0.074 (J)
2/27/2024	0.13	<0.1			0.084 (J)	
2/28/2024			0.06 (J)			
2/29/2024				0.068 (J)		0.067 (J)
8/13/2024	0.12	<0.1	<0.1		0.083 (J)	
8/14/2024						
8/15/2024				<0.1		<0.1

Prediction Limit

Constituent: pH (SU) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.21	7.07				
9/6/2016						7.23			
9/7/2016							7.02	6.92	6.71
9/8/2016									
10/4/2016									
10/5/2016									
10/17/2016									
10/18/2016									
12/6/2016	7.57								
12/7/2016		6.85	6.64	7.13	6.85	7.3			
12/8/2016							6.95	6.9	6.61
3/21/2017	7.54	7.04	6.73						
3/22/2017				7.04	6.99	7.2	7.05	7	
3/23/2017									6.69
7/11/2017	7.43	6.88	6.66			7.31			
7/12/2017				7.09	6.83		7.06	6.95	6.69
10/17/2017	7.7								
10/18/2017		6.77	6.73	7.2		7.28	6.99		6.88
10/19/2017					6.91				6.85
2/20/2018	7.57	7.32 (D)	7.11						
2/21/2018				7.11	6.97	7.1	6.95	6.89	6.66
7/11/2018	7.48	7.12	7						
7/12/2018				7.07	6.85	7.14	7.06	7.01	6.84
8/15/2018								6.87	
8/16/2018							7.01		
9/12/2018	7.41	6.87							
9/13/2018			6.56	7.01	6.88	7.08		6.86	
9/14/2018							6.83		6.76
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23		6.92	
3/28/2019				7.84	6.96		6.97		6.67
9/10/2019			6.78						
10/1/2019	7.5								
10/2/2019		6.96		7.22		7.22	6.99		
10/3/2019					6.85			6.78	6.93
3/24/2020	7.79								
3/25/2020		7.02	6.84				6.93		
3/26/2020				7.08	7.12	7.12		7.01	6.7
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.08	7.01	7.18	6.98		6.68
8/27/2020								6.88	
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				7.11	6.98		7.04	6.91	6.78
3/3/2021	7.56	6.99	6.79						6.78
3/4/2021				7.09	6.95	7.34	7.09	6.91	
3/8/2021									
9/14/2021	7.45								
9/15/2021		6.94	6.72	7.09		7.12			
9/16/2021					6.96		7.03	6.85	6.77
1/25/2022	7.51								

Prediction Limit

Constituent: pH (SU) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		7.05	6.83	7.33		7.26			
1/27/2022					7.03		7.03	6.92	6.8
8/24/2022	7.49								
8/25/2022		6.93	6.76	7.15	6.98	7.14	7.05	6.76	6.67
8/26/2022									
10/11/2022									
2/14/2023	7.43	7.04	6.75						
2/15/2023				7.09	6.92	7.1		6.73	6.66
2/16/2023							7.14		
9/19/2023	7.44					7.08			
9/20/2023		6.94	6.86	7.07	7.15		7.16	6.76	6.83
9/21/2023									
2/27/2024									
2/28/2024	7.41		6.79	7.18	7.07				
2/29/2024		7.07				7.19	7.2	6.94	6.82
8/13/2024	7.46								
8/14/2024		7.52	6.75	7.11		7.15		6.92	6.9
8/15/2024					7.05		7.35		

Prediction Limit

Constituent: pH (SU) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	7.1					
10/4/2016		6.88				
10/5/2016		6.91				
10/17/2016			7.43			
10/18/2016			7.45	7.15		
12/6/2016				7.04		
12/7/2016			7.29			
12/8/2016	6.98	6.86				
3/21/2017				7.01		
3/22/2017	7.16					
3/23/2017		6.9	7.26			
7/11/2017	7.15	7.82 (o)	7.31	6.96		
7/12/2017		6.81				
10/17/2017			7.29	7.31	7.61	
10/18/2017	7.09					
10/19/2017		6.86				
2/20/2018			7.26			
2/21/2018	7.12	7.02				
7/11/2018			7.39	7.26	9.48	
7/12/2018		6.82		7.01		
8/15/2018						
8/16/2018						
9/12/2018				7.02	9.07	
9/13/2018	7.03		7.25			
9/14/2018		6.75				
3/26/2019				7		
3/27/2019	7.08		7.42		8.76	
3/28/2019		6.96				
9/10/2019						
10/1/2019			7.43			
10/2/2019	7.2			7.09	8.97	
10/3/2019		7.01				
3/24/2020					8.57	
3/25/2020	7.01		7.23	7.15		
3/26/2020		7				
8/25/2020			7.53	7.14		
8/26/2020	7.09	6.99			7.97	
8/27/2020						
10/6/2020			7.27	7.01	8.72	
10/7/2020	6.95	7.04				
3/3/2021	7.04		7.41	7.14		
3/4/2021		7.22				
3/8/2021					7.77	
9/14/2021			7.31		8.96	
9/15/2021	7.05			6.99		
9/16/2021		7.1				
1/25/2022					8.4	

Prediction Limit

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Constituent: pH (SU) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)	PZ-57
1/26/2022	7.28		7.44	7.1		
1/27/2022		7.18				7.3
8/24/2022	7.1	7.1	7.34	7.04	8.01	
8/25/2022						
8/26/2022						7.09
10/11/2022	7.13		7.37		7.94	
2/14/2023			7.36	7.09	7.97	
2/15/2023	7.02					
2/16/2023		7.13				7.06
9/19/2023	7.18		7.43	7.02	8.82	
9/20/2023						
9/21/2023		7.05				7.21
2/27/2024	7.13		7.39		8.49	
2/28/2024				7.11		
2/29/2024		7.14				7.13
8/13/2024	7.06		7.33	7.12	9.2	
8/14/2024						
8/15/2024		7.07				7.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							99	96	87
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							94	94	84
3/21/2017	2.5	2	31						
3/22/2017				61	80	53	100	95	
3/23/2017									90
7/11/2017	2.6	2	37			52			
7/12/2017				53	78		100	96	93
10/17/2017	2.5								
10/18/2017		4.2	34		82	58	100	99	
10/19/2017				55					92
2/20/2018	2.3	2.4	34.7						
2/21/2018				52.1	72.2	48.2	98.8	91.8	84.5
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.5	3.8	35.4						
7/12/2018				53.9	80.5	48.8			84.9
8/15/2018								101	
8/16/2018							111		
8/17/2018									
9/12/2018	2	4.3							
9/13/2018			37.4	67.5	84.4	48.7		106	
9/14/2018							102		89.5
10/4/2018									
10/24/2018									
3/26/2019	2.7								
3/27/2019		8.2	41.9			46.5		111	
3/28/2019				59.6	90.3		94.7		83.5
9/10/2019			45.1						
10/1/2019	2.8								
10/2/2019		6.2			83	48.5	104		
10/3/2019				59.6				95.8	84.9
3/24/2020	3								
3/25/2020		11.9	47				92.4		
3/26/2020				57.1	83.6	43.5		91	84.9
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				48.9	80.7		89.1	87.3	83.3
3/3/2021	2.2	8.8	66						80.8
3/4/2021				49.7	74.1	38.9	66.8	88.6	
3/8/2021									
9/14/2021	2.6								
9/15/2021		11.4	46.8		73.4	37.8			
9/16/2021				41.8			70.9	86.9	72.7
1/25/2022	2.4								

Prediction Limit

Page 2

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		9.1	37.8		77.2	38.9			
1/27/2022				46.7			62.1	89.9 (M1)	76.3
8/24/2022	2.2								
8/25/2022		10.7	45.6	47.3	75.5	38.7	62.7	96.3	84.4
8/26/2022									
2/14/2023	1.6	10	35.1						
2/15/2023				49.9	75.7 (M1)	38.1		96.6	78.8
2/16/2023							54.2		
9/19/2023	2.2					37.5			
9/20/2023		12.5	44.3	40.7	74.9		34.3	93.8	83.4
9/21/2023									
2/27/2024									
2/28/2024	<1		33.5	40.3	77.4				
2/29/2024		13.3				37.9	45.4	92.7	71.5
8/13/2024	2.5								
8/14/2024		17.3	43.4		78.4	38.8		94.3	61.7
8/15/2024				39			18.3		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	48					
10/18/2016		2.3	2.2			
12/6/2016			6.1			
12/7/2016		1.9				
12/8/2016	46			100		
3/21/2017			5.7			
3/22/2017	53					
3/23/2017		1.7		100		
7/11/2017	51	1.8	4.8			
7/12/2017				97		
10/17/2017		1.9	6.4			
10/18/2017	50					
10/19/2017				97		
2/20/2018		2.1	5.2			
2/21/2018	46.8			93.6		
4/12/2018					4.8 (J)	
5/23/2018					4.5	
6/13/2018					5.3	
7/11/2018		2	3.6		5.4	
7/12/2018	48.3			89.4		
8/15/2018						
8/16/2018						
8/17/2018					4.5	
9/12/2018			2.7		4.4	
9/13/2018	42	2.1				
9/14/2018				88.9		
10/4/2018				97.8	5.8	
10/24/2018					6.2	
3/26/2019			1.6			
3/27/2019	43.7	2.4			3.7	
3/28/2019				76.7		
9/10/2019						
10/1/2019		2.2				
10/2/2019	43		1.6		4.1	
10/3/2019				72.1		
3/24/2020					3.1	
3/25/2020	39.1	1.9	1.5			
3/26/2020				66.6		
10/6/2020		1.9	0.98 (J)		3.1	
10/7/2020	38.1			54.6		
3/3/2021	39.2	2	0.6 (J)			
3/4/2021				49.3		
3/8/2021					2.7	
9/14/2021		1.8			3.8	
9/15/2021	37.8		0.64 (J)			
9/16/2021				40.4		
1/25/2022					2.9	

Prediction Limit

Page 4

Constituent: Sulfate (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	PZ-57
1/26/2022	37.5	1.9	0.69 (J)			
1/27/2022				40		94.5
8/24/2022	35.7	1.7	0.56 (J)	34.7	2	
8/25/2022						
8/26/2022						87.2
2/14/2023		2	0.89 (J)		2.6	
2/15/2023	37.1					
2/16/2023				36		77.7
9/19/2023	34.7	1.5	0.61 (J)		3.2	
9/20/2023						
9/21/2023				34.8		66.7
2/27/2024	34	1.4			2.6	
2/28/2024			0.54 (J)			
2/29/2024				32.2		65.1
8/13/2024	34.8	1.7	0.8 (J)		3.3	
8/14/2024						
8/15/2024				31.6		59.7

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				373	284				
9/6/2016						257			
9/7/2016							392	415	508
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	433	242	248			
12/8/2016							431	441	556
3/21/2017	128	276	409						
3/22/2017				409	332	304	456	469	
3/23/2017									482
7/11/2017	138	263	414			265			
7/12/2017				374	308		445	432	497
10/17/2017	101								
10/18/2017		261	366		275	240	349	368	
10/19/2017				318					448
2/20/2018	138	295	429						
2/21/2018				367	312	285	411	409	500
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				423	337	285			523
8/15/2018								422	
8/16/2018							415		
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	394	336	291		438	
9/14/2018							403		486
10/4/2018									
10/24/2018									
3/26/2019	334								
3/27/2019		281	410			277		408	
3/28/2019				365	337		420		378
9/10/2019			420						
10/1/2019	146								
10/2/2019		312			355	284	415		
10/3/2019				405				464	485
3/24/2020	228								
3/25/2020		330	454				408		
3/26/2020				332	330	286		415	440
10/6/2020	153	241	462			261			
10/7/2020				334	336		392	425	492
3/3/2021	134	258	444						452
3/4/2021				335	300	264	325	427	
3/8/2021									
9/14/2021	150								
9/15/2021		292	422		326	270			
9/16/2021				307			330	419	450
1/25/2022	148								

Prediction Limit

Page 2

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		288	413		308	267			
1/27/2022				331			329	433	442
8/24/2022	139								
8/25/2022		259	437	325	319	90	321	446	528
8/26/2022									
10/11/2022									
2/14/2023	200	300	414						
2/15/2023				335 (D6)	329	334		477	529
2/16/2023							299		
9/19/2023	146					298			
9/20/2023		293	421	302	328		256	451	512
9/21/2023									
2/27/2024									
2/28/2024	176		430	325	342				
2/29/2024		308				292	277	473	470
8/13/2024	163								
8/14/2024		284	436		342	311		468	436
8/15/2024				350			245		

Prediction Limit

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Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)	PZ-57
8/30/2016						
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	293					
10/18/2016		264	152			
12/6/2016		299				
12/7/2016			214			
12/8/2016	309			503 (o)		
3/21/2017		260				
3/22/2017	299					
3/23/2017			165	430		
7/11/2017	301	244	162			
7/12/2017				438		
10/17/2017		218	140			
10/18/2017	256					
10/19/2017				393		
2/20/2018		264	163			
2/21/2018	297			435		
4/12/2018					69	
5/23/2018					62	
6/13/2018					93	
7/11/2018		273	192		84	
7/12/2018	310			447		
8/15/2018						
8/16/2018						
8/17/2018					115	
9/12/2018		252			97	
9/13/2018	307		192			
9/14/2018				447		
10/4/2018				450	103	
10/24/2018					110	
3/26/2019		253				
3/27/2019	287		167		87	
3/28/2019				405		
9/10/2019						
10/1/2019			187			
10/2/2019	312	263			95	
10/3/2019				414		
3/24/2020					123	
3/25/2020	280	278	178			
3/26/2020				336		
10/6/2020		254	169		81	
10/7/2020	280			337		
3/3/2021	267	264	166			
3/4/2021				283		
3/8/2021					126	
9/14/2021			179		71	
9/15/2021	272	256				
9/16/2021				296		
1/25/2022					68	

Prediction Limit

Page 4

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 9/24/2024 4:27 PM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)	PZ-57
1/26/2022	276	262	182			
1/27/2022				274		387
8/24/2022		261		265		
8/25/2022						
8/26/2022						358
10/11/2022	267		173		75	
2/14/2023		257	177		140	
2/15/2023	264					
2/16/2023				293		421
9/19/2023	311	265	217		86	
9/20/2023						
9/21/2023				300		311
2/27/2024	287		192		75	
2/28/2024		276				
2/29/2024				314		334
8/13/2024	273	263	187		69	
8/14/2024						
8/15/2024				341		348

FIGURE E.

Appendix III Trend Tests - Significant Results

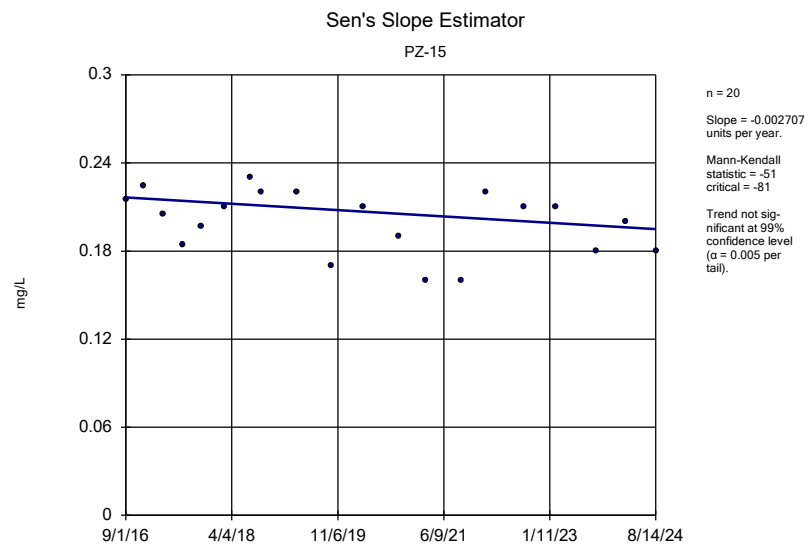
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	PZ-17	-0.02803	-106	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005833	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.009628	-99	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02597	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.155	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.325	79	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.399	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2026	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2734	-128	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2348	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.633	145	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-1.999	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-8.534	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-2.043	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.11	-156	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.4398	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.5923	-137	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.58	-174	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-57	-13.94	-15	-14	Yes	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.429	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-33	-23.59	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	-9.993	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

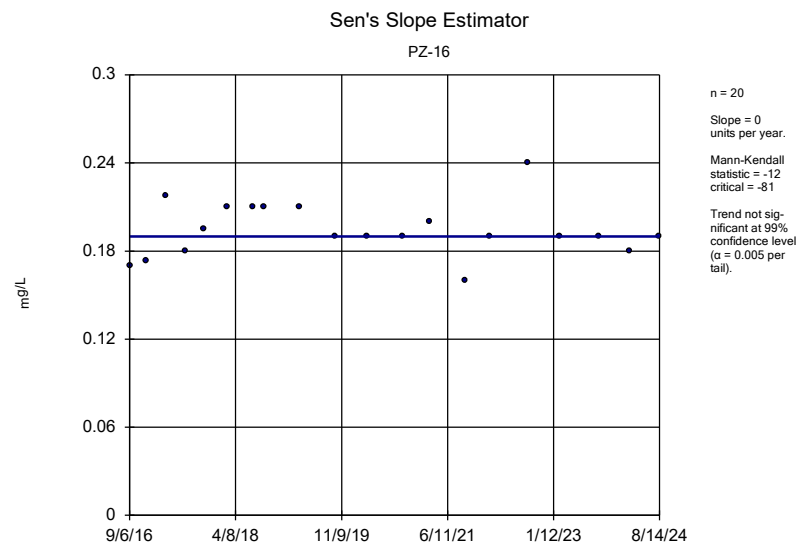
Appendix III Trend Tests - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:35 PM

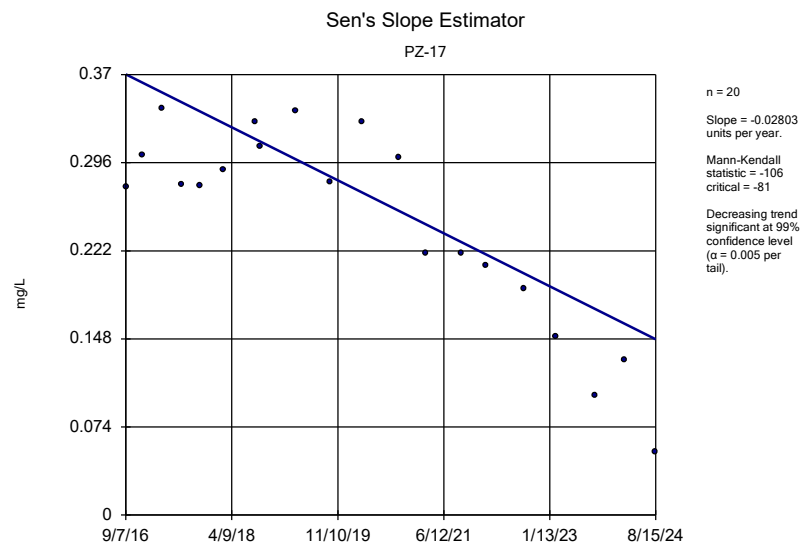
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	PZ-15	-0.002707	-51	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-12	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	-0.02803	-106	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0	16	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02259	-78	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0007472	53	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.003383	-62	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005833	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.0006816	-44	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0.000503	28	81	No	20	30	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	6	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.009628	-99	-92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-57	-0.003921	-2	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02597	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.155	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-19	0.4626	12	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.325	79	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	0.8276	31	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	0.2963	14	81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	1.558	78	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.399	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2026	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2734	-128	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-1D (bg)	-0.05859	-68	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03309	-52	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2348	-115	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-32 (bg)	-0.0951	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01238	-51	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.01186	39	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01701	-74	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.008757	42	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.04786	-15	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	2	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.005203	24	98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.633	145	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-15	0.08429	4	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-1.999	-135	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-8.534	-125	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.4456	-31	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-2.043	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	-0.03331	-31	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	2.044	76	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.11	-156	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.4398	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.5923	-137	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-32 (bg)	-0.04882	-60	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.58	-174	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-57	-13.94	-15	-14	Yes	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.429	-119	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-15	3.875	56	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-16	3.613	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-18	5.749	69	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-19	-4.498	-32	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-1D (bg)	2.87	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-23A	3.289	63	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-2D (bg)	-0.4749	-6	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-2S	-0.514	-3	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-31 (bg)	0.5919	22	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-32 (bg)	3.296	62	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-33	-23.59	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-57	-15.87	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	PZ-7D	-9.993	-90	-81	Yes	20	0	n/a	n/a	0.01	NP



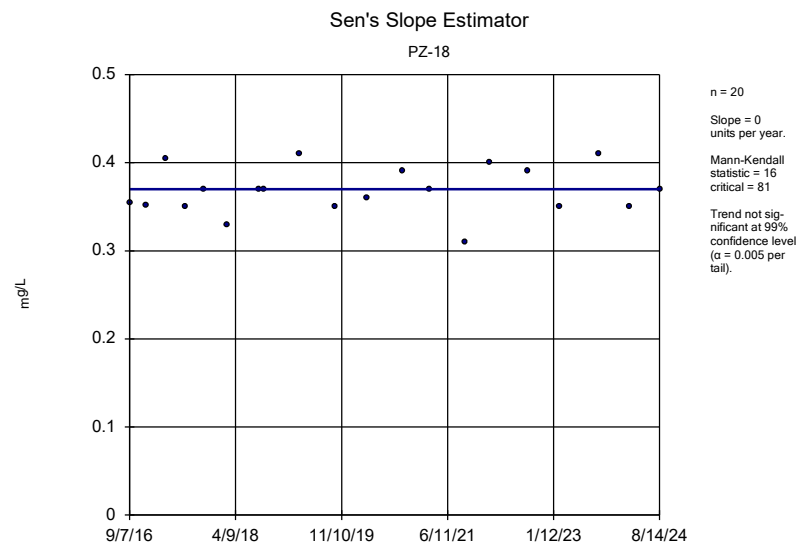
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



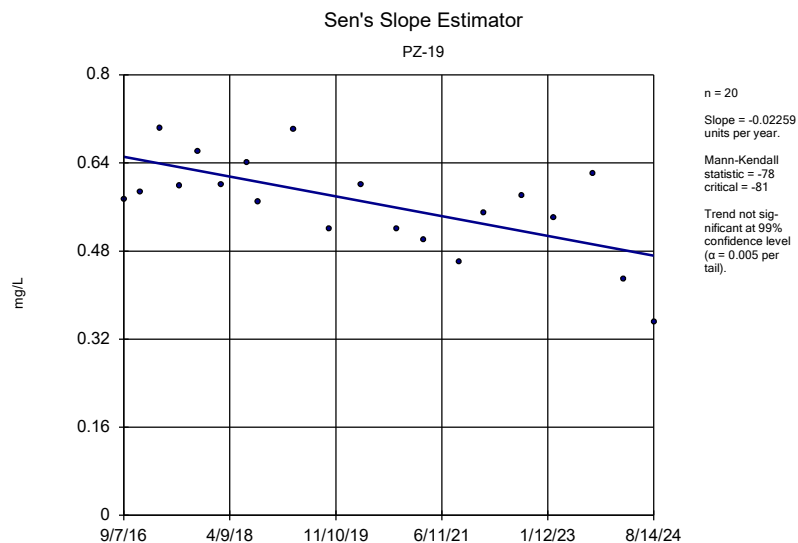
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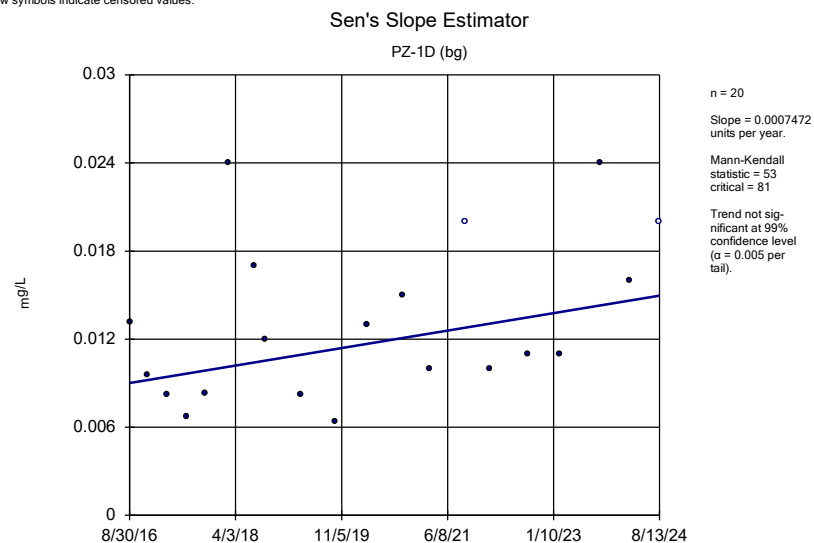
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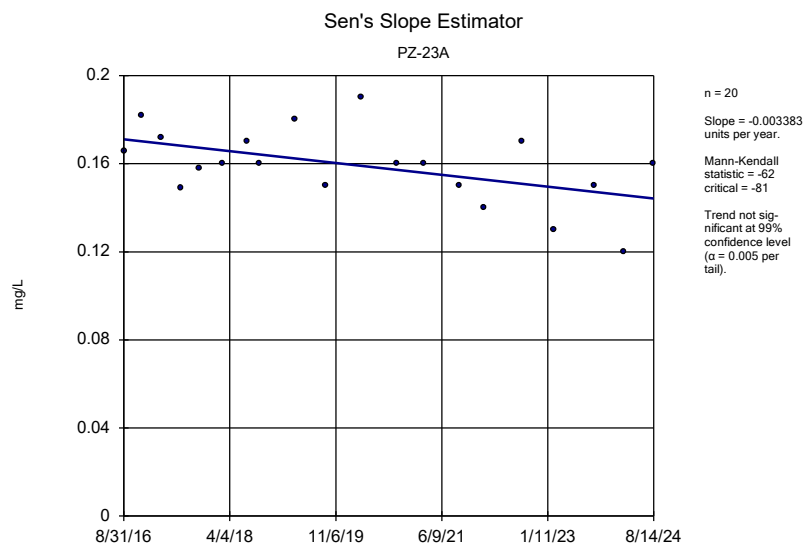
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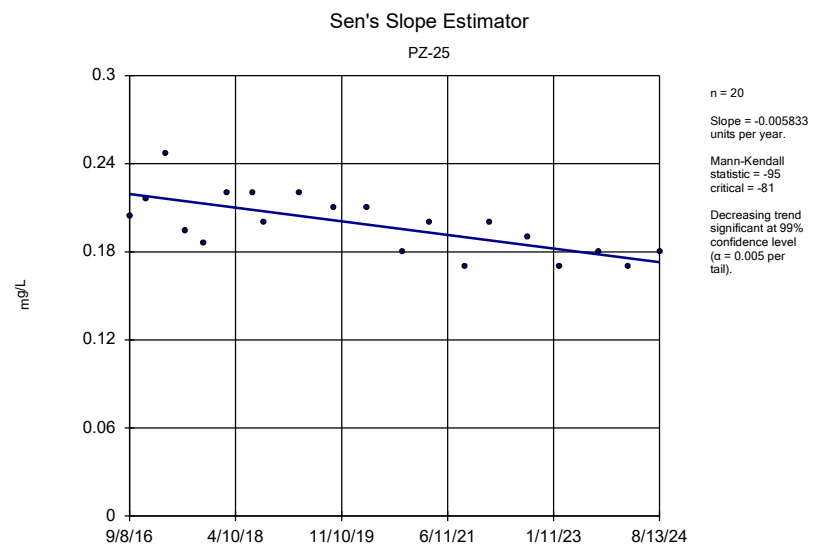
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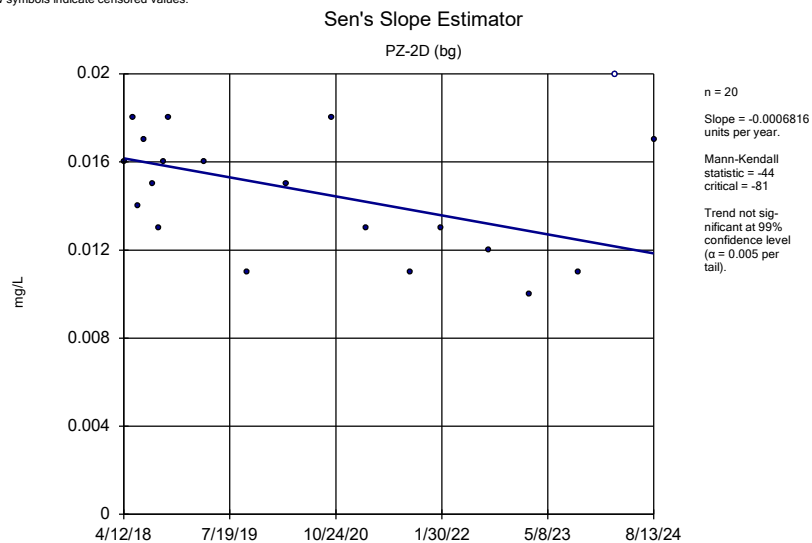
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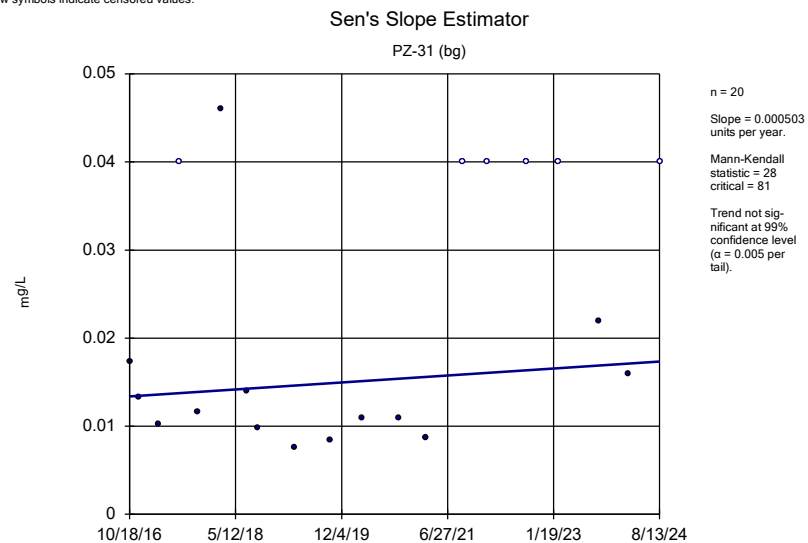
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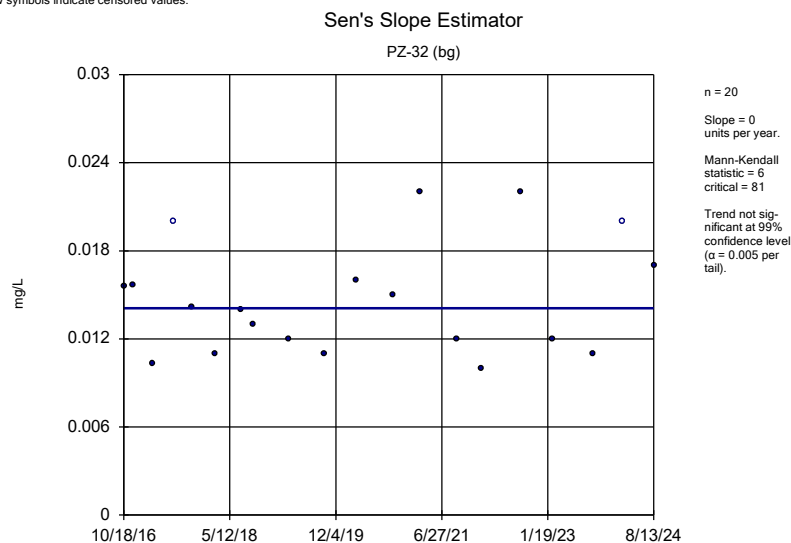
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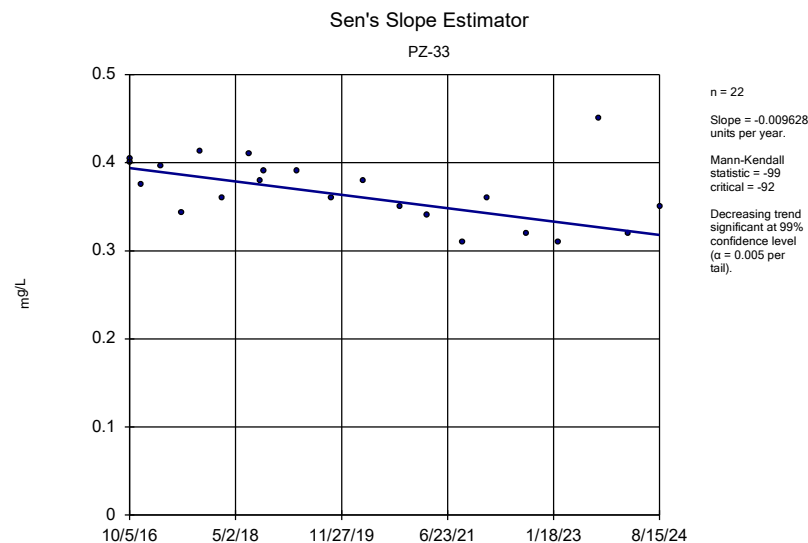
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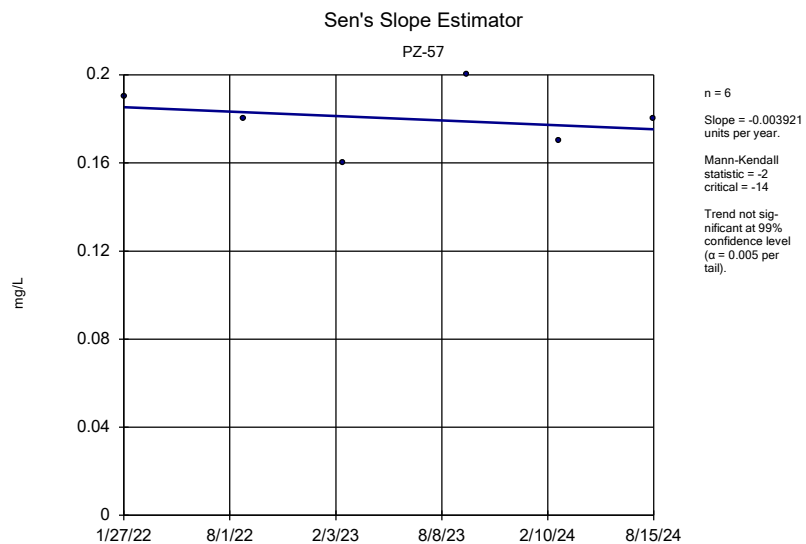
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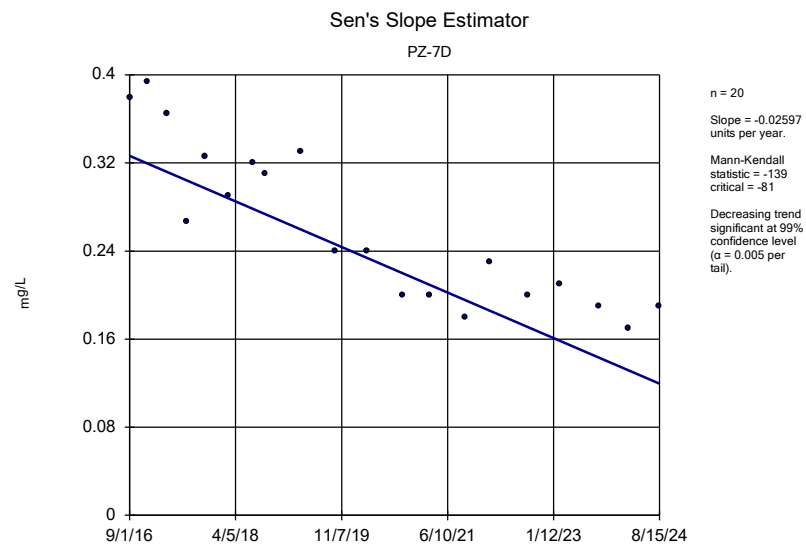
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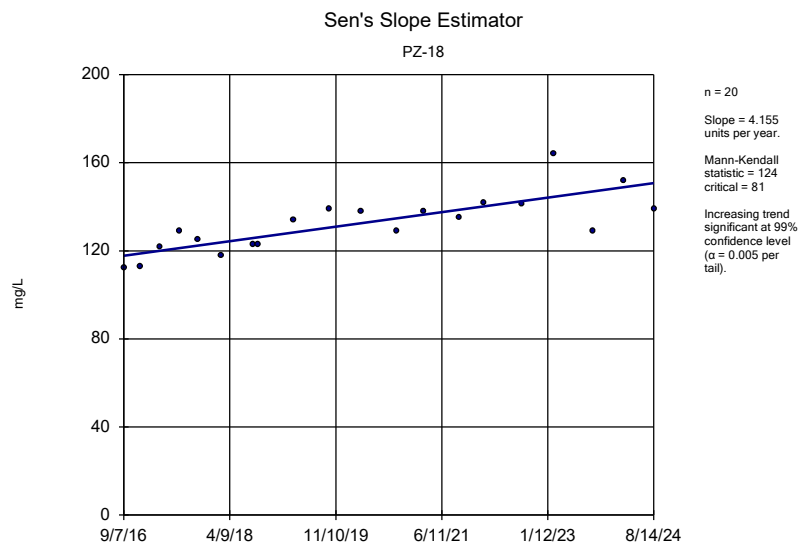
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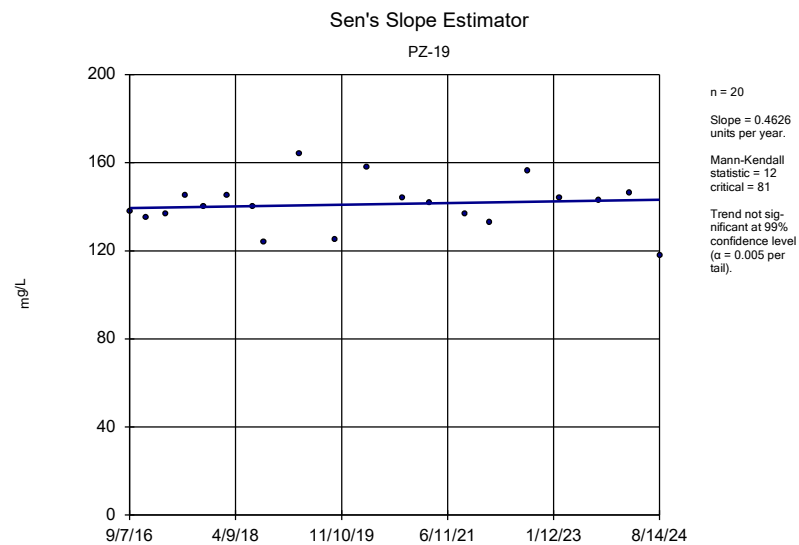
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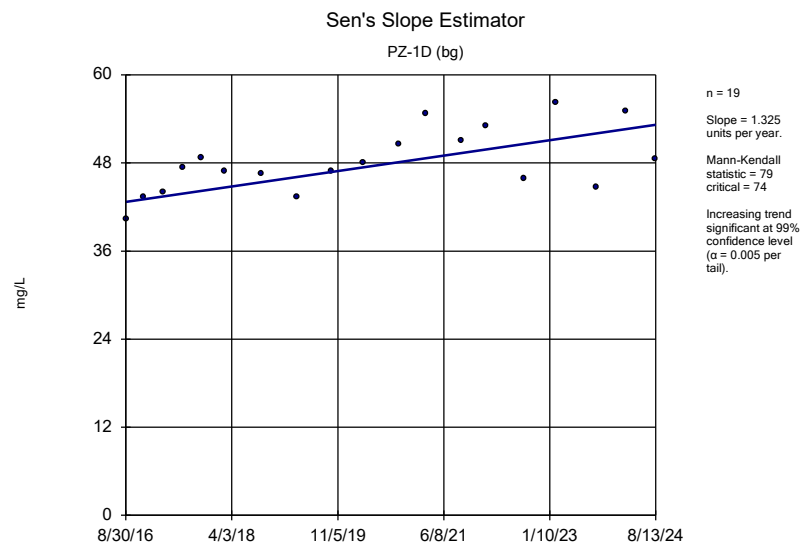
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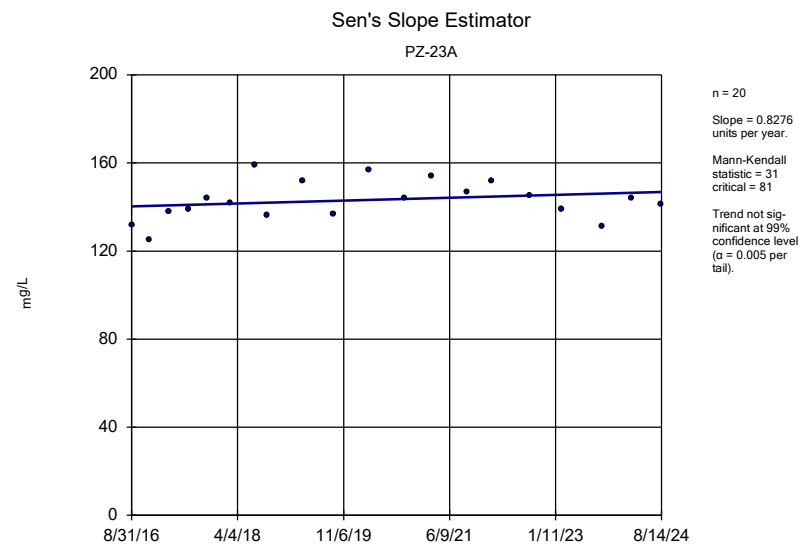
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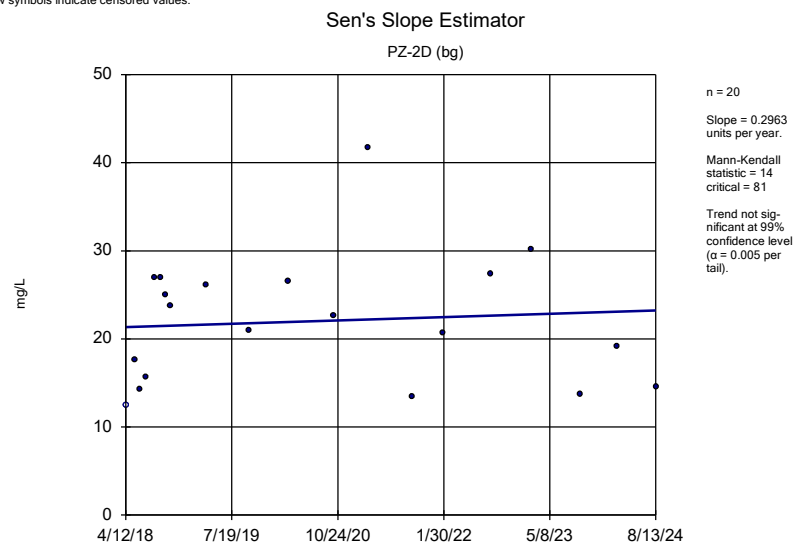
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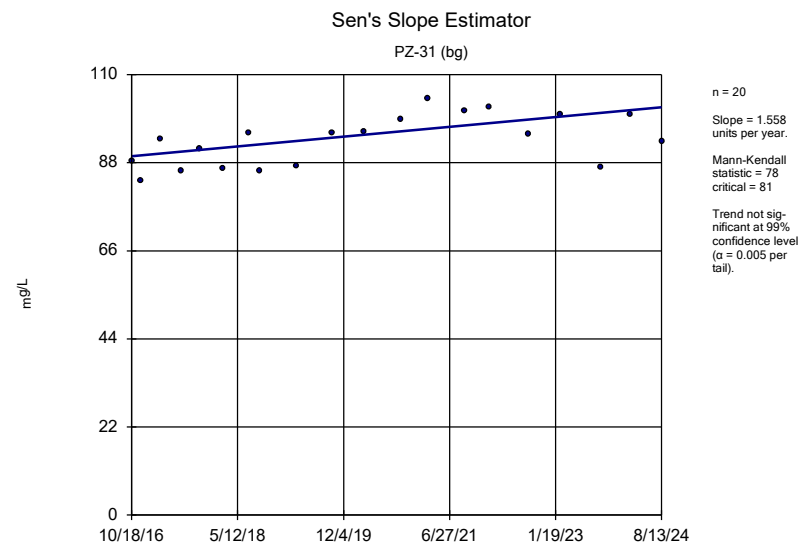
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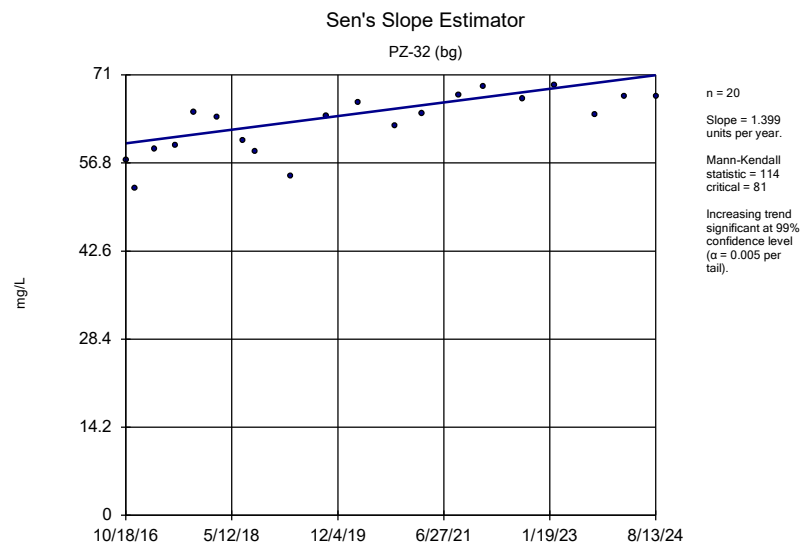
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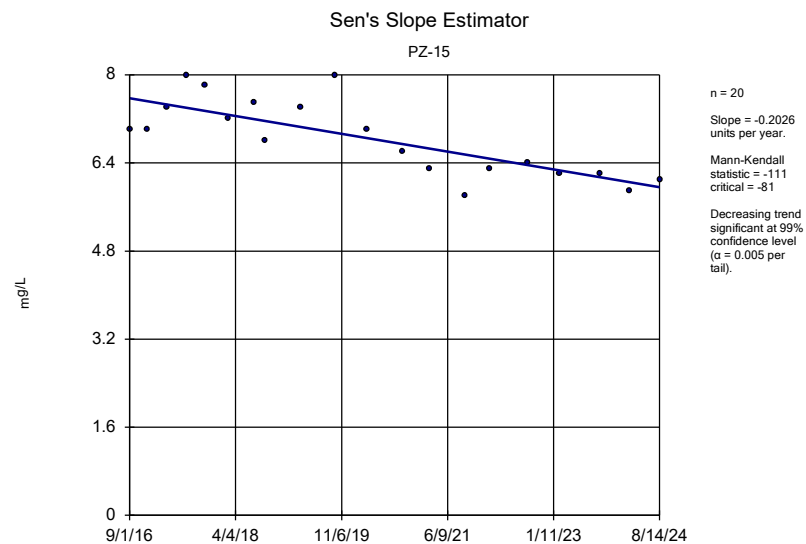
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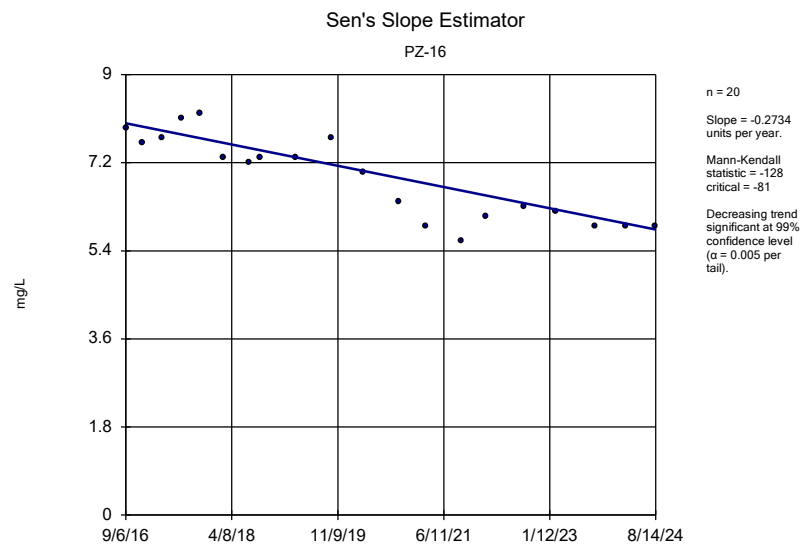
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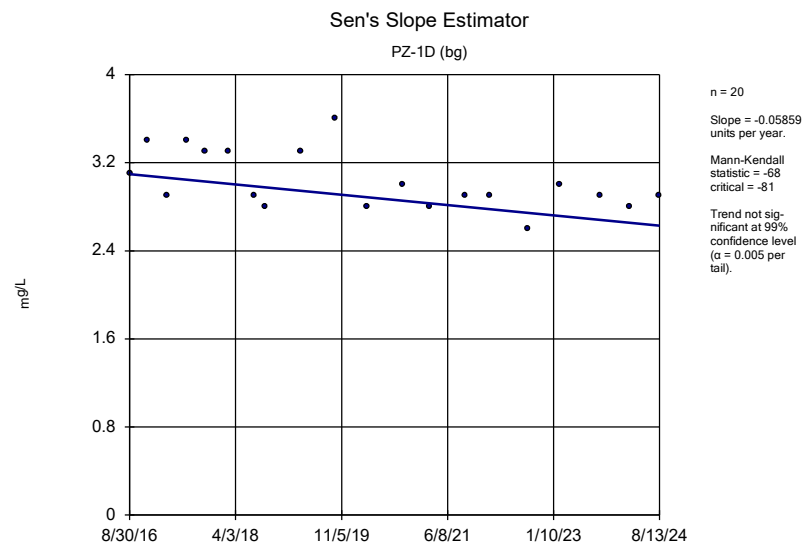
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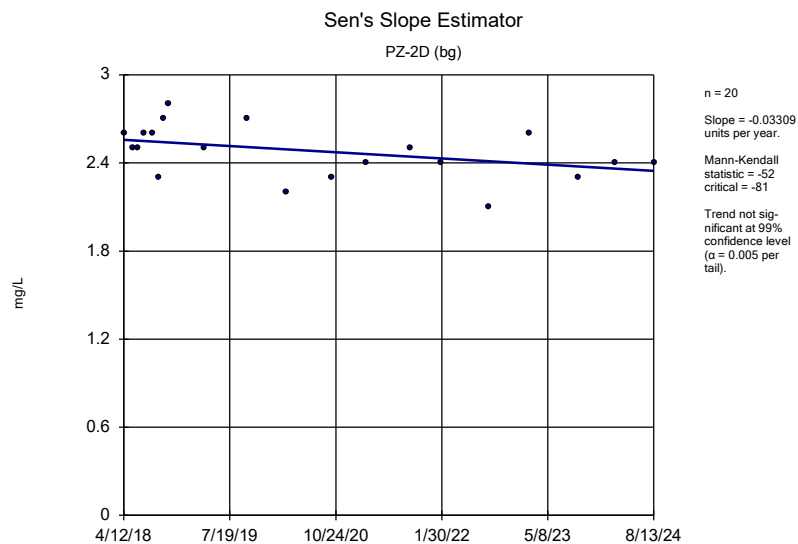
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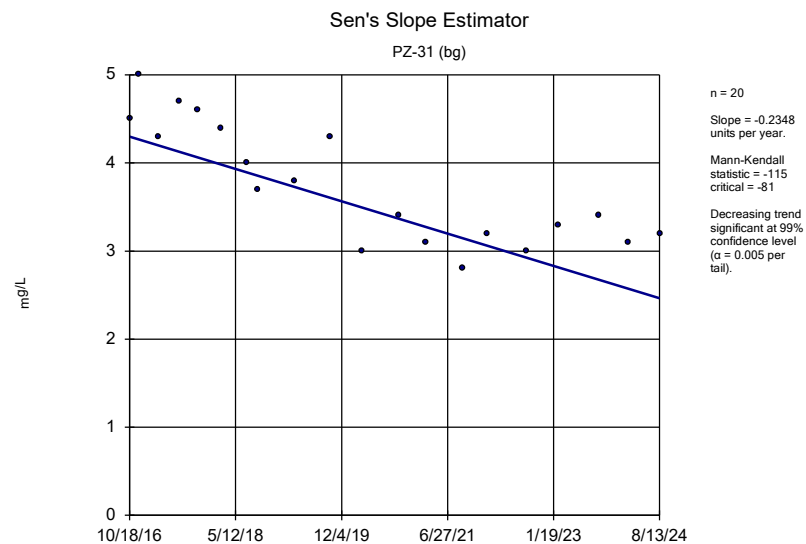
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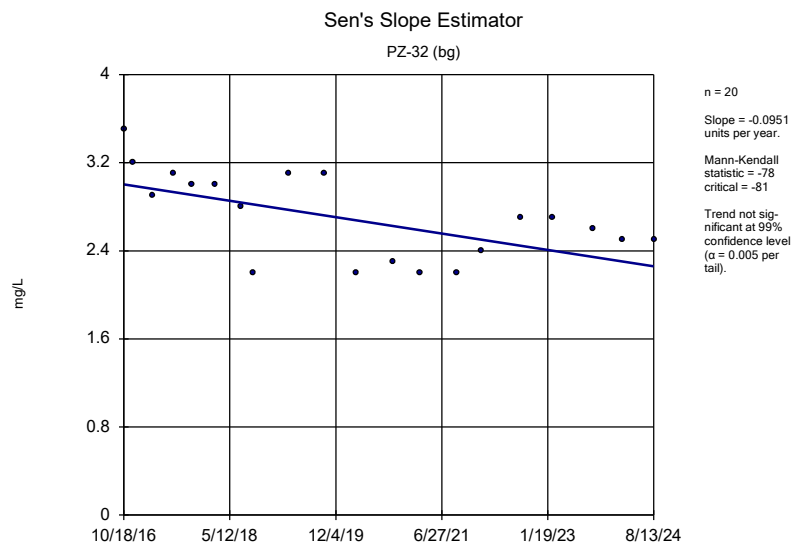
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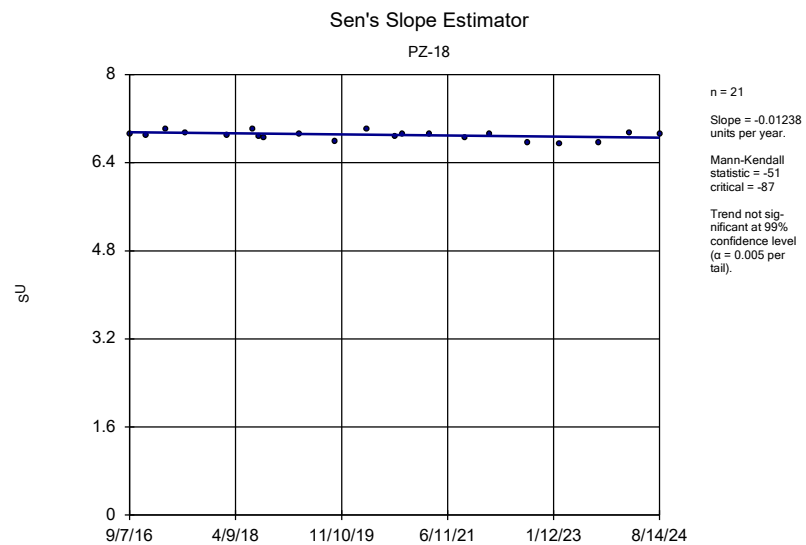
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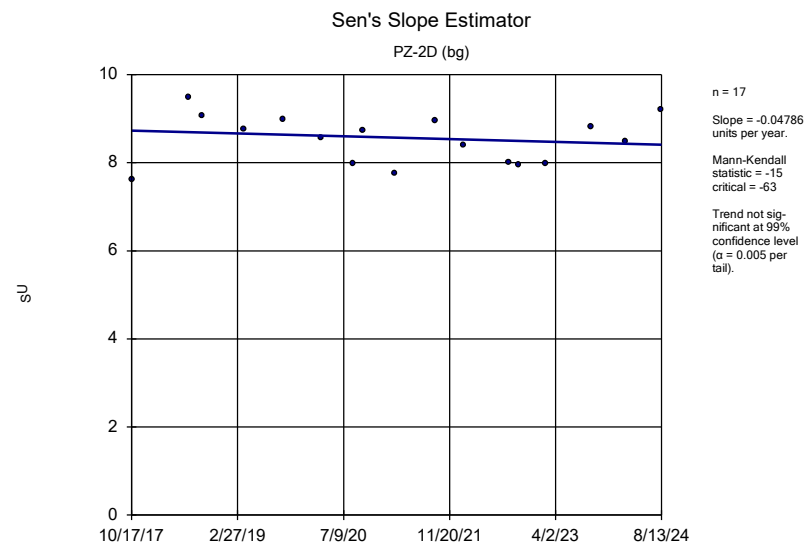
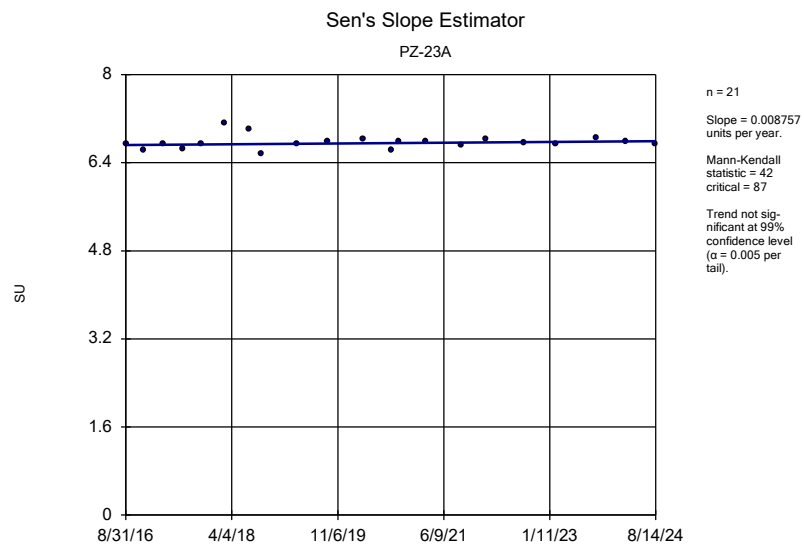
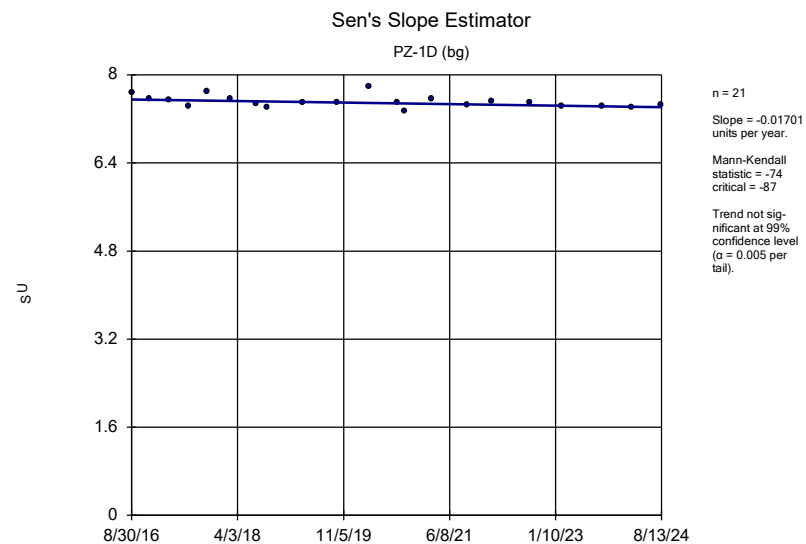
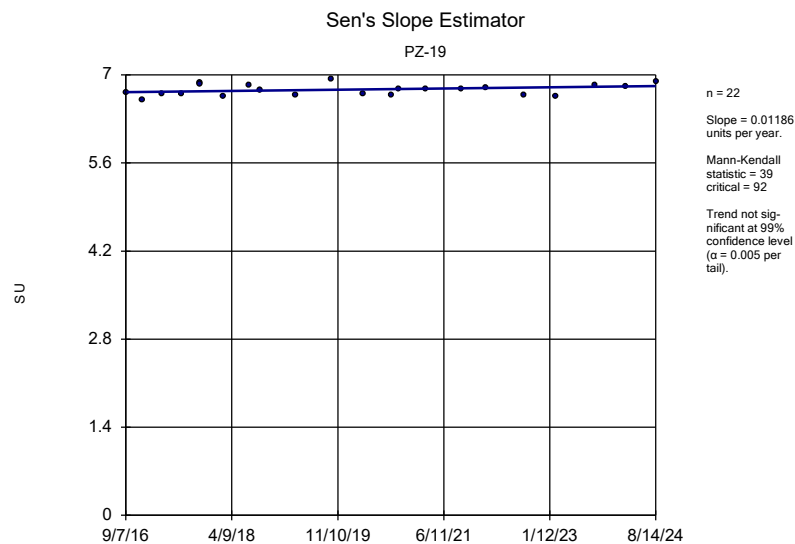
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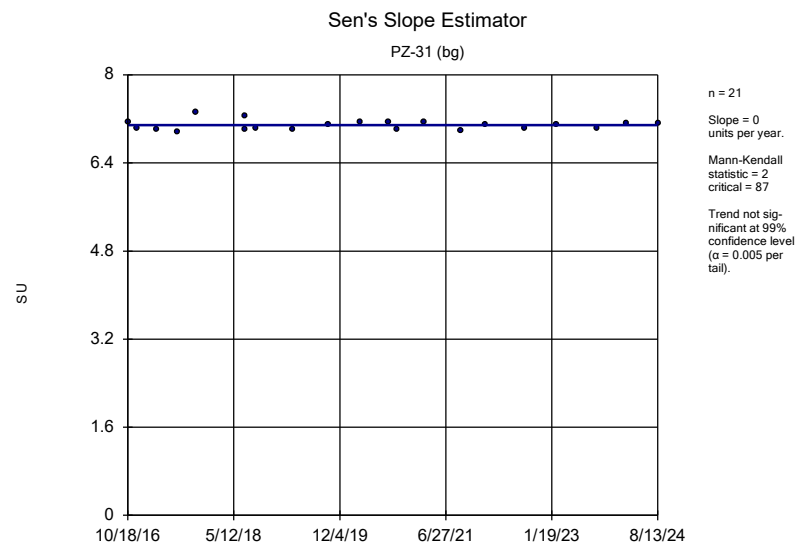


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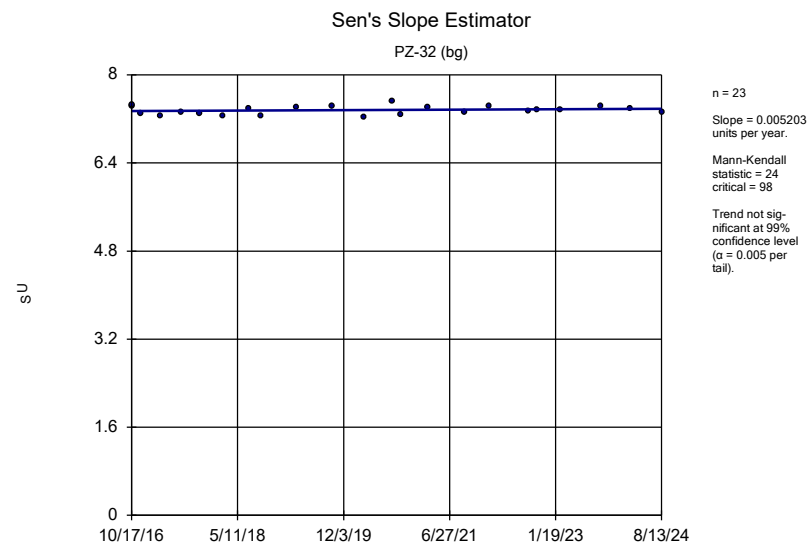


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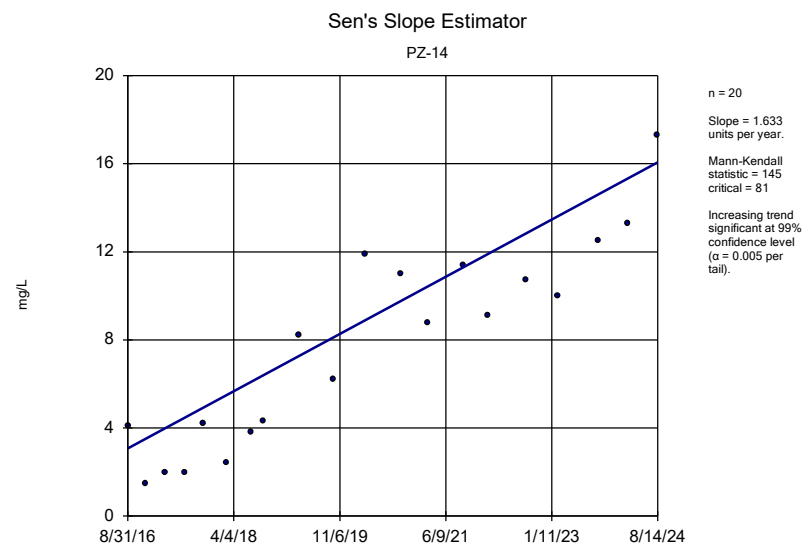




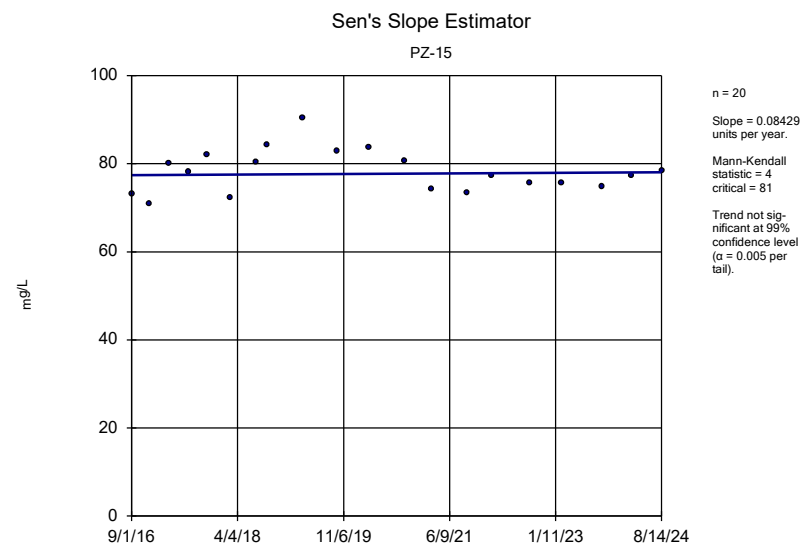
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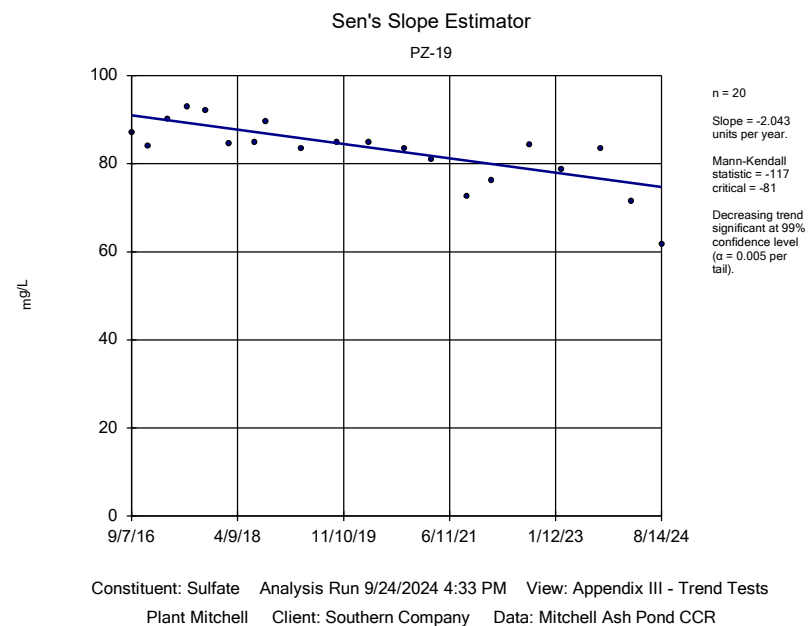
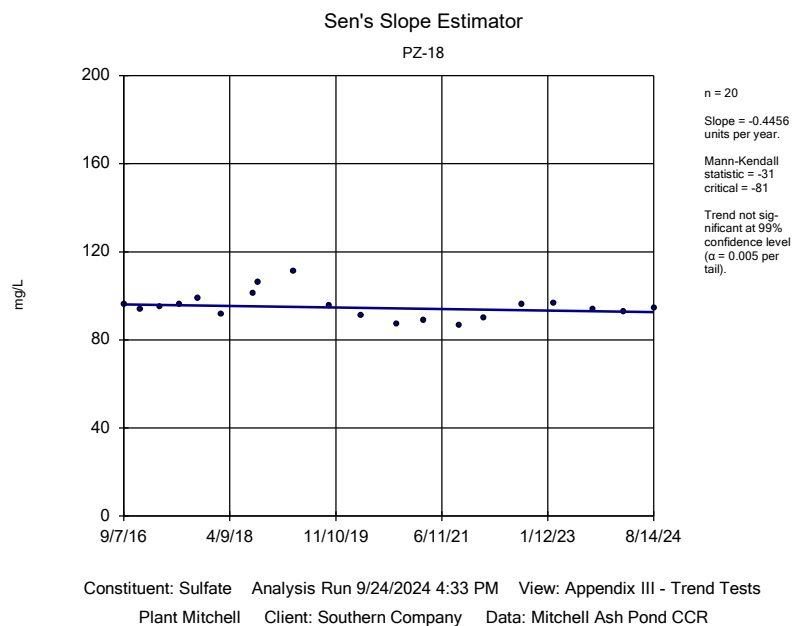
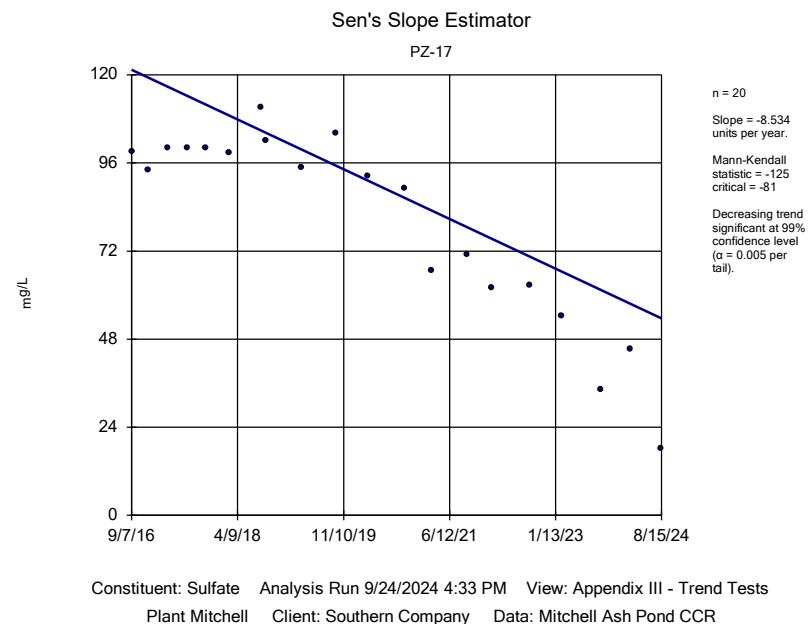
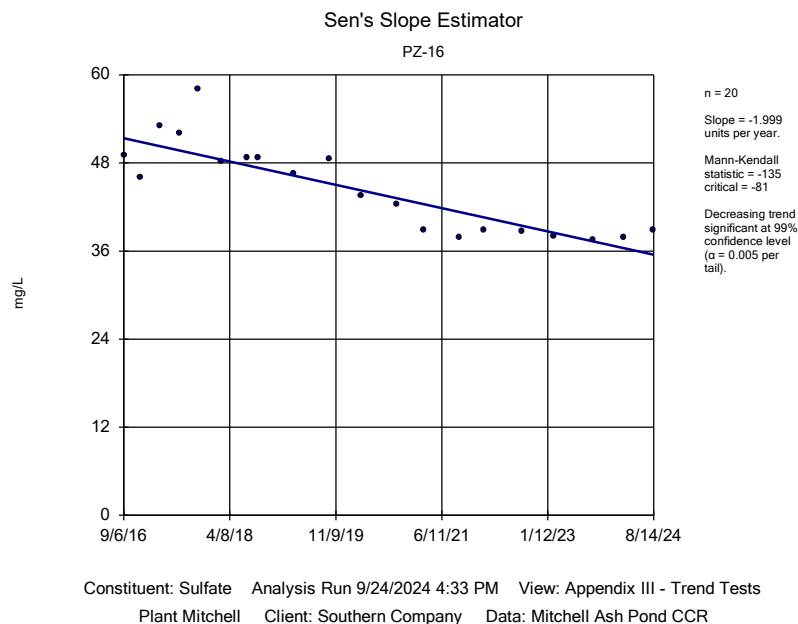
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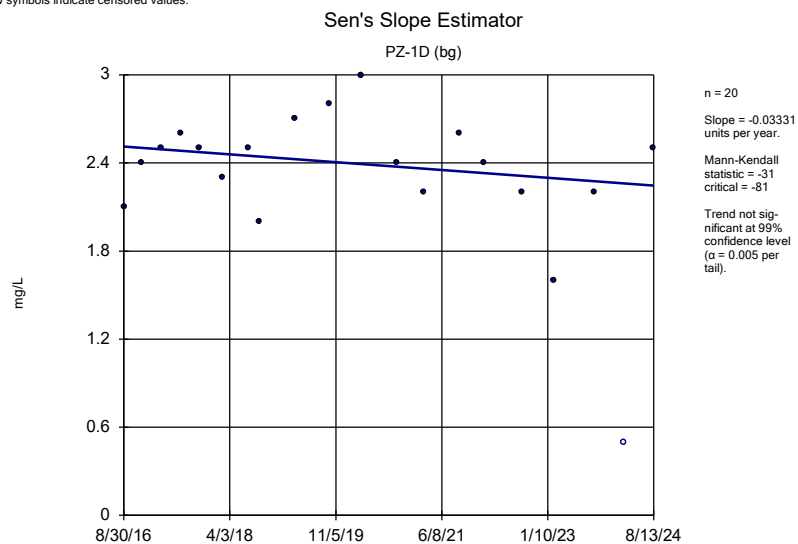


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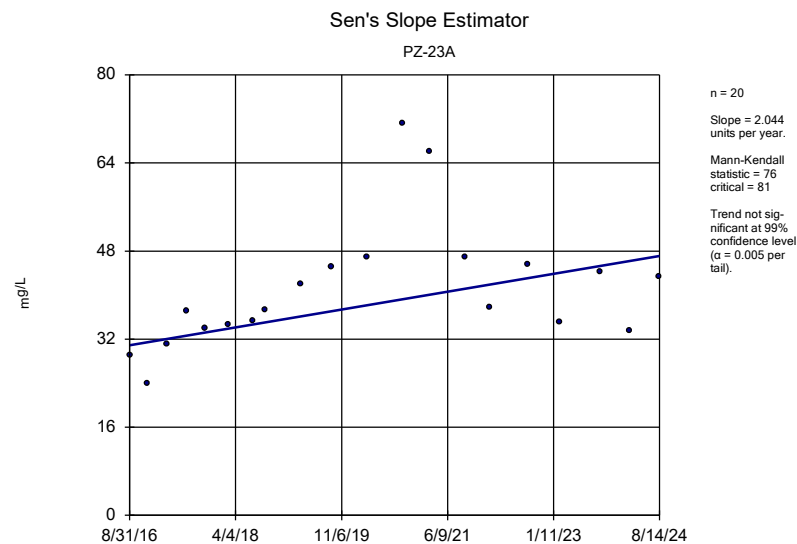


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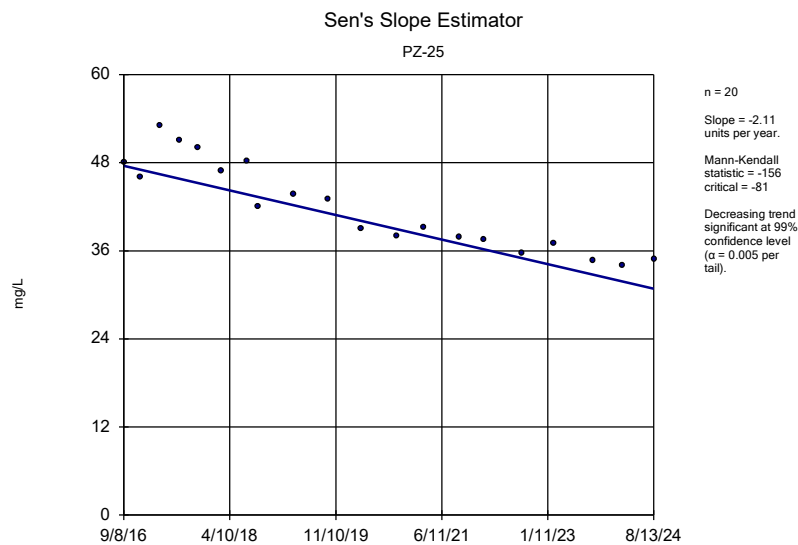




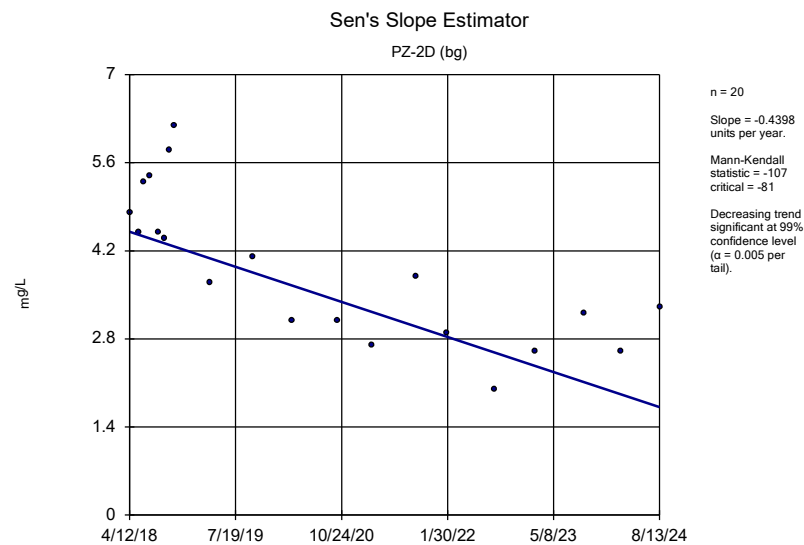
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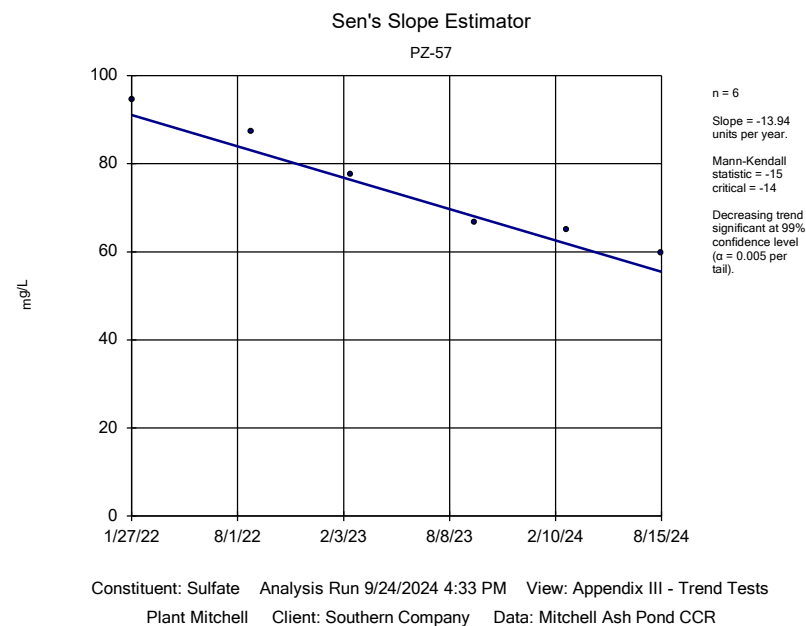
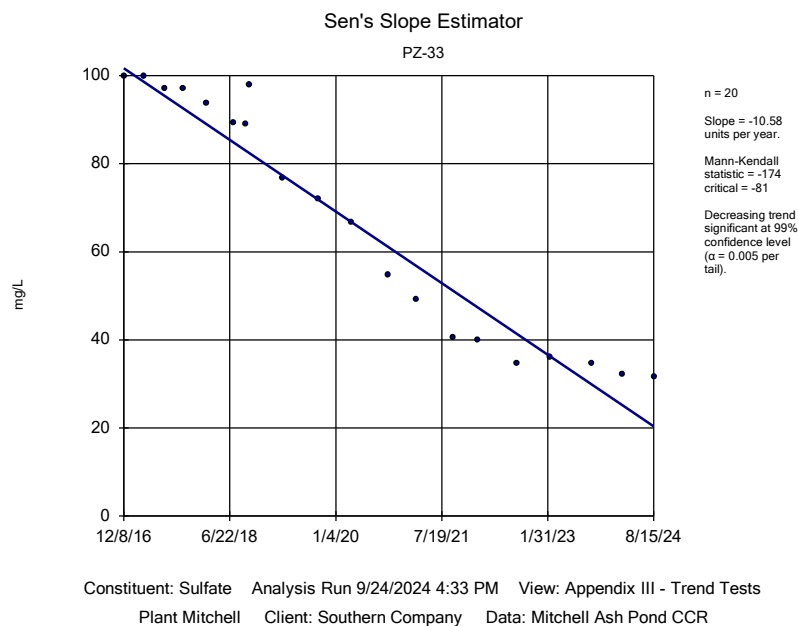
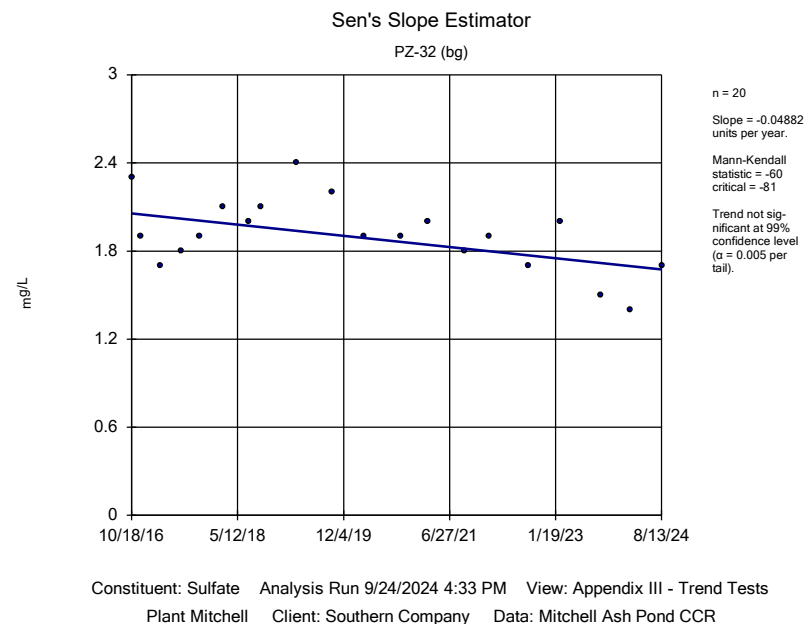
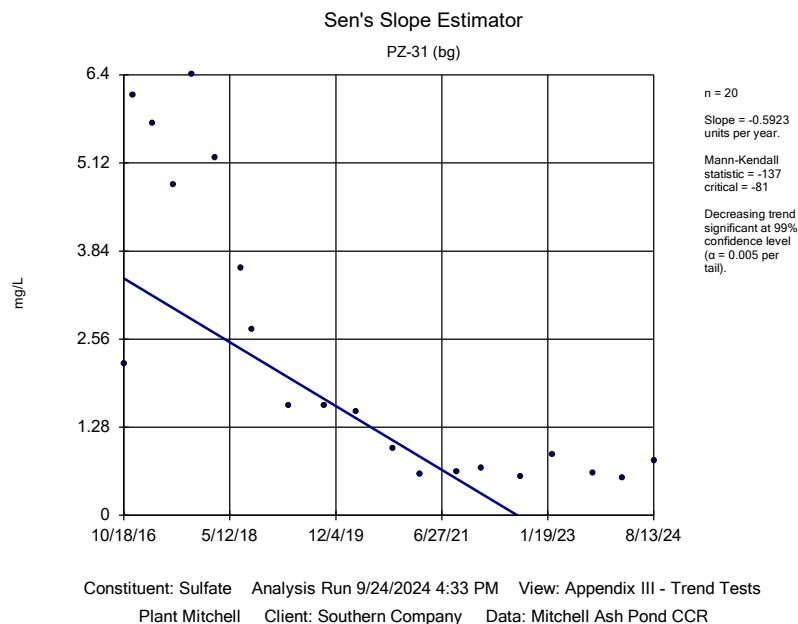
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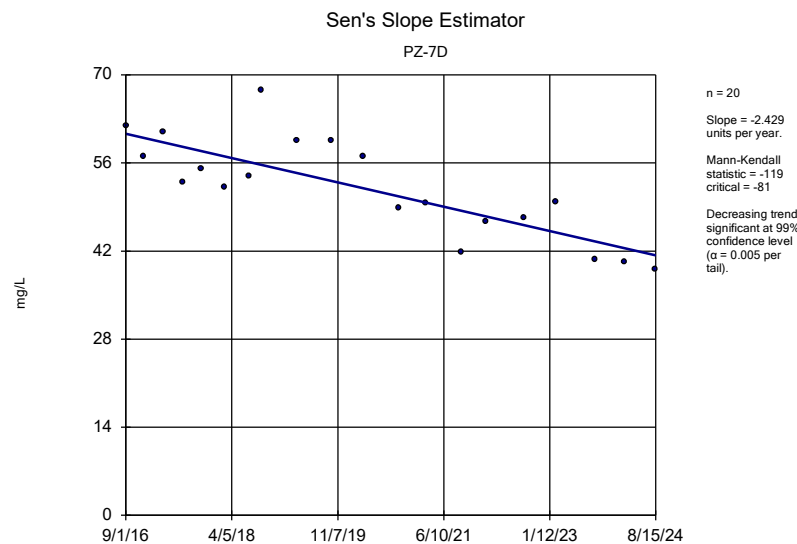


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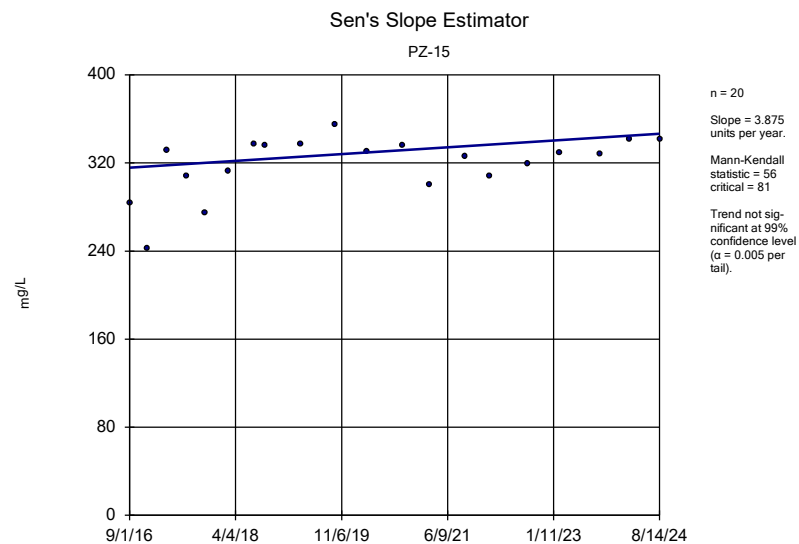


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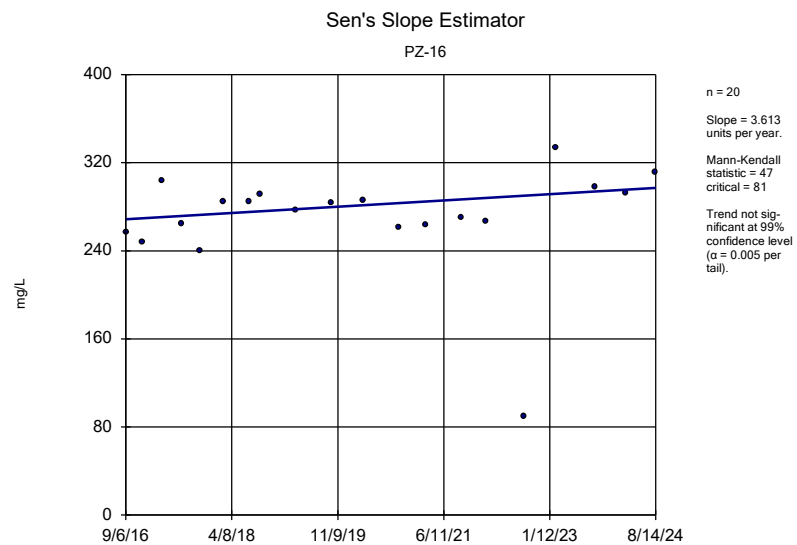




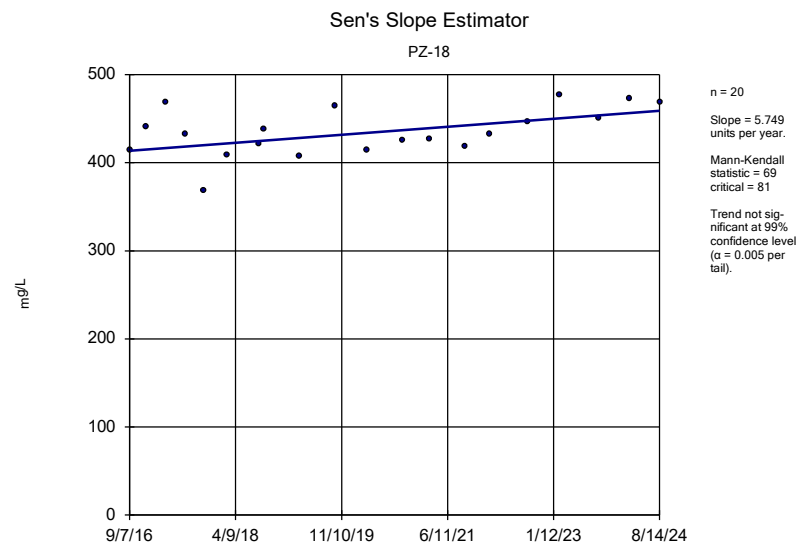
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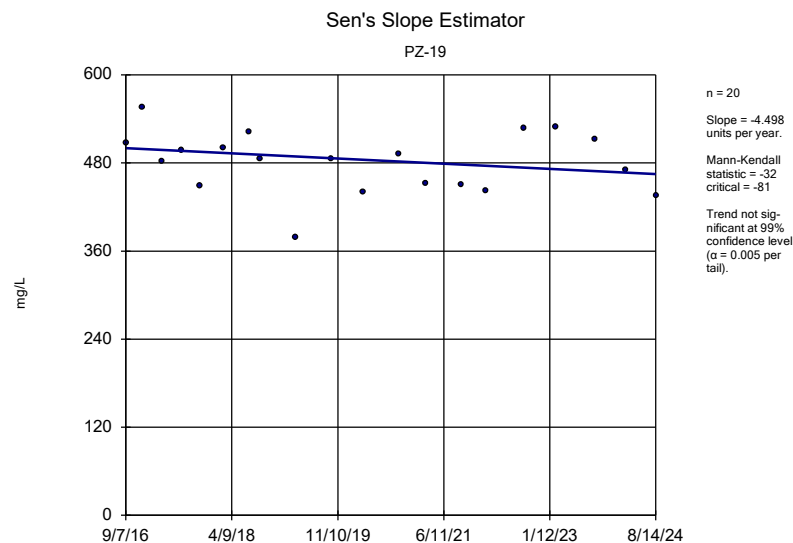
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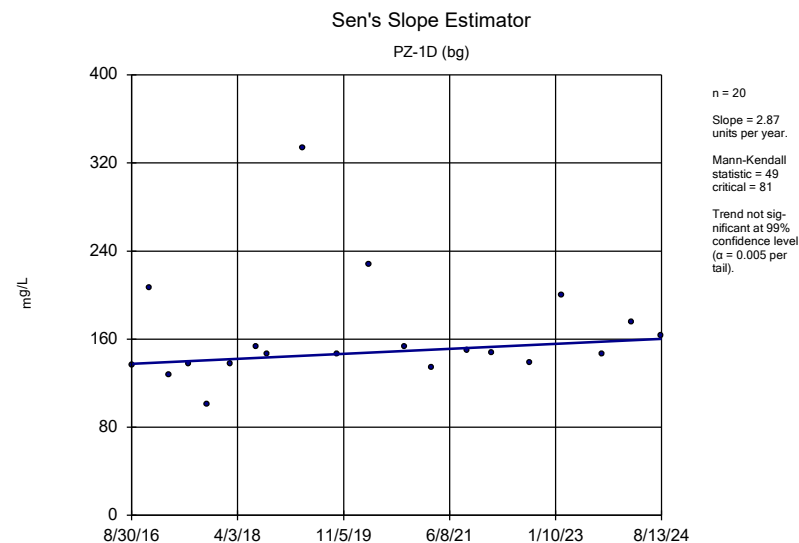
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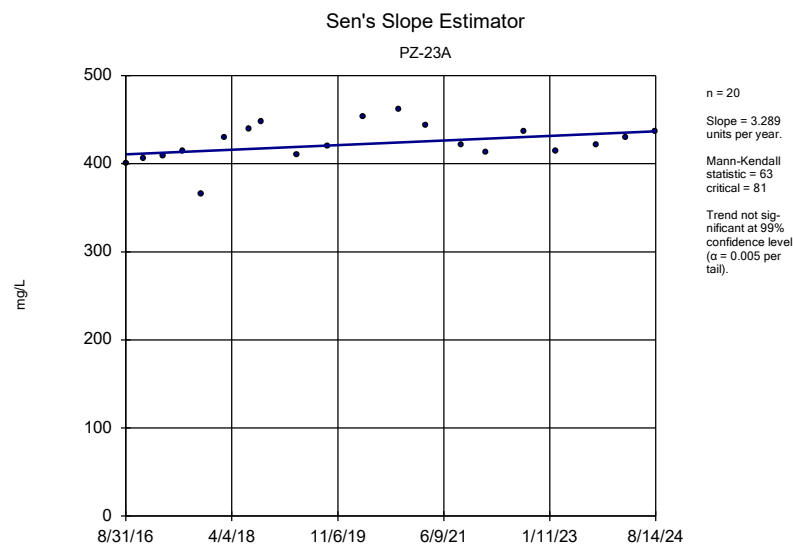
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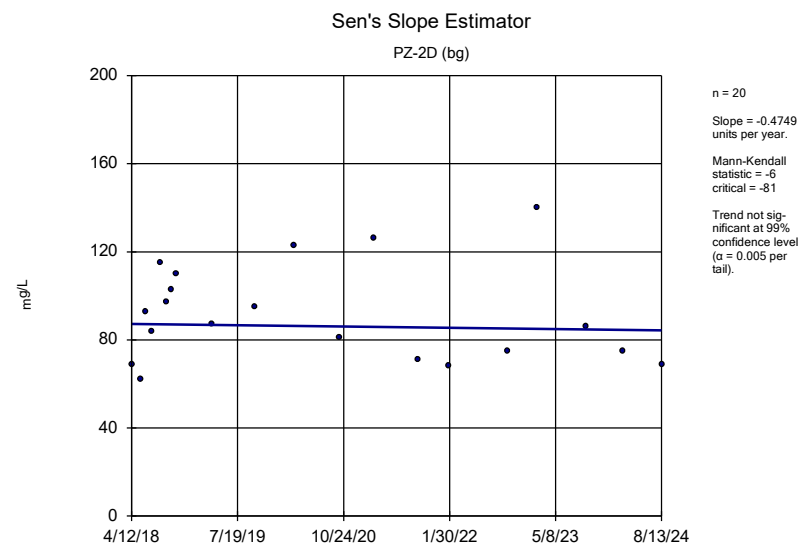
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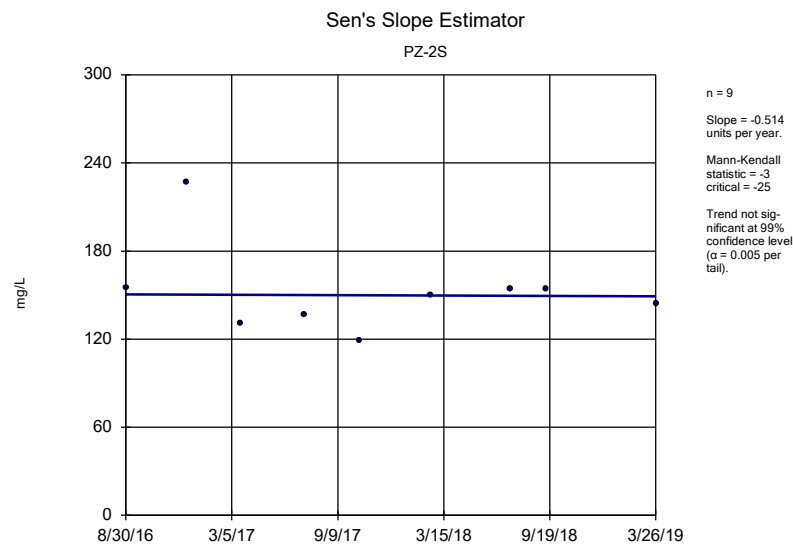
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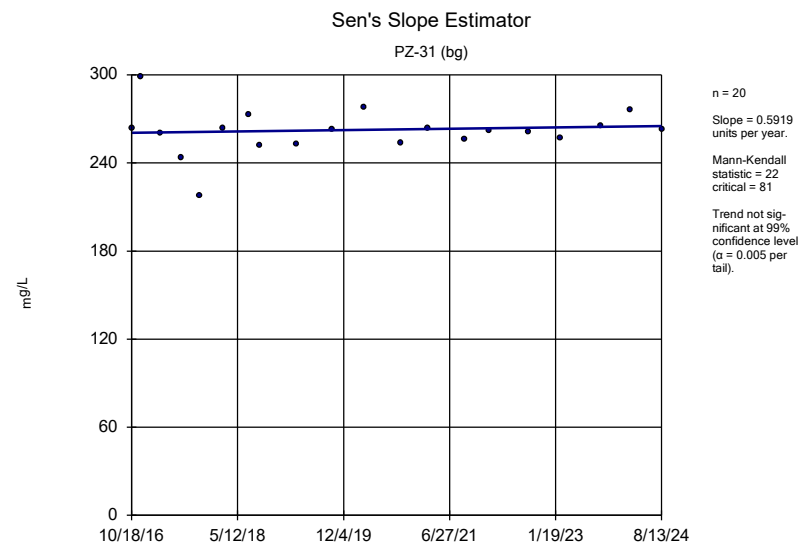
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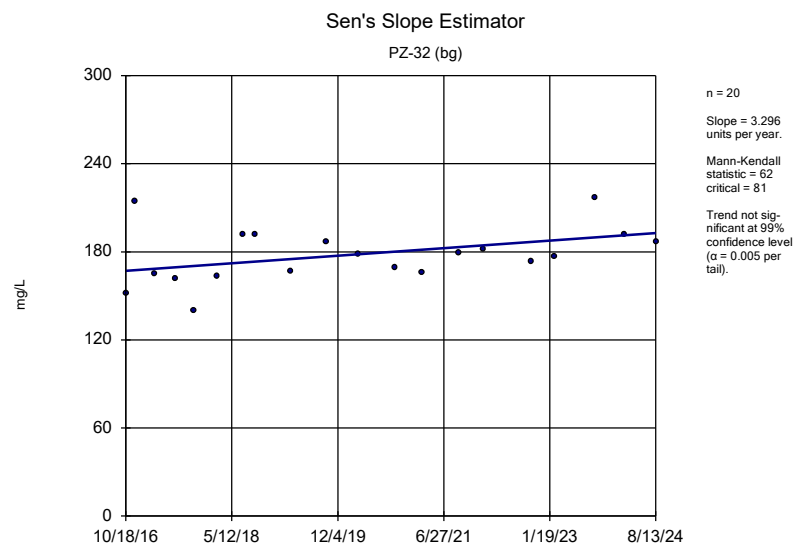
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



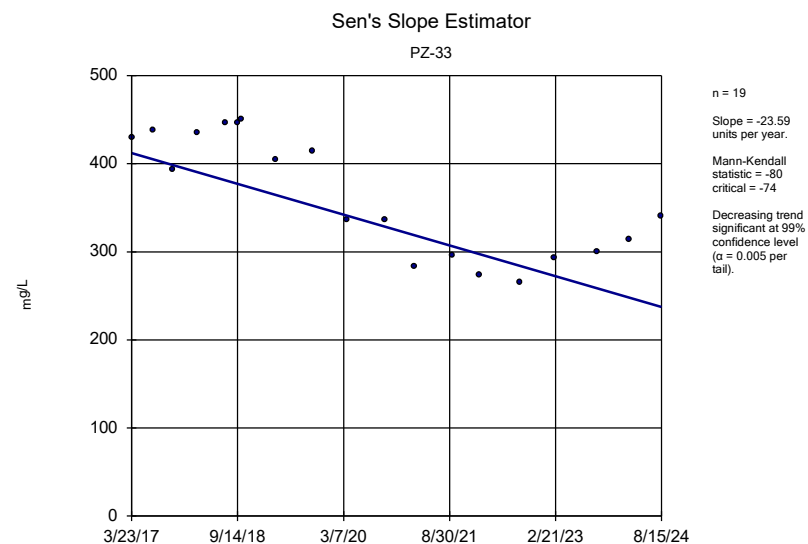
Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



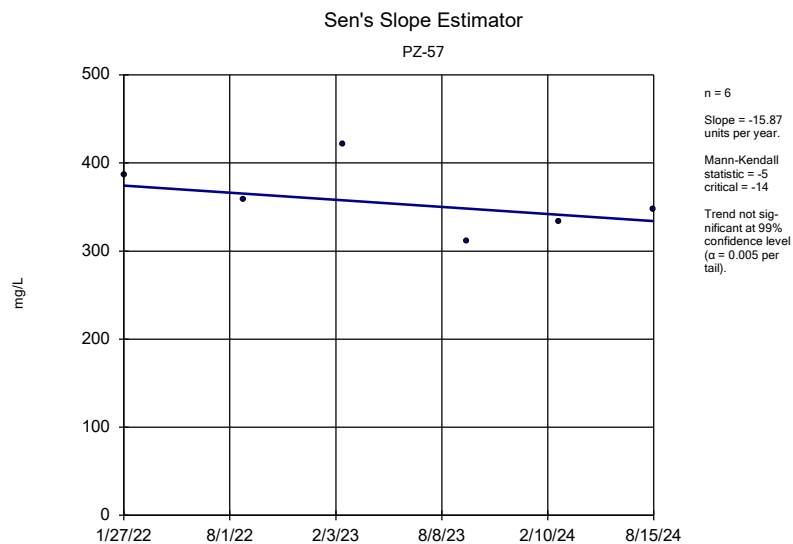
Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



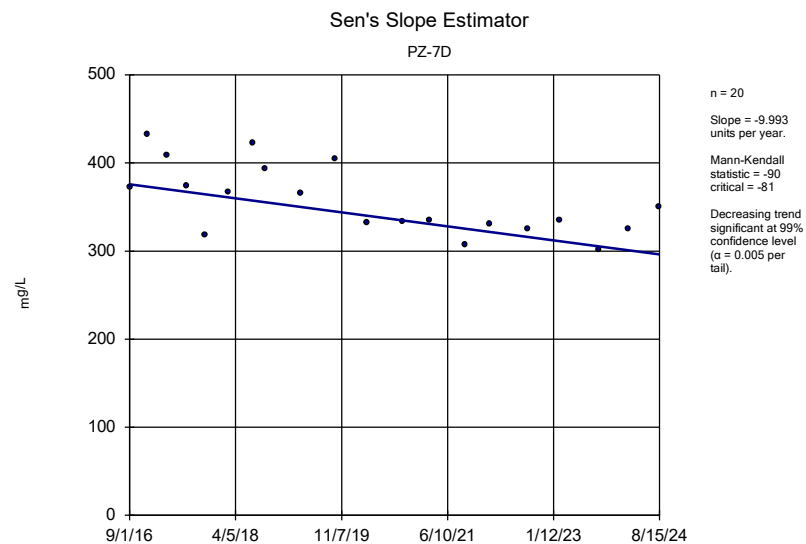
Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Total Dissolved Solids [TDS] Analysis Run 9/24/2024 4:33 PM View: Appendix III - Trend Tes
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

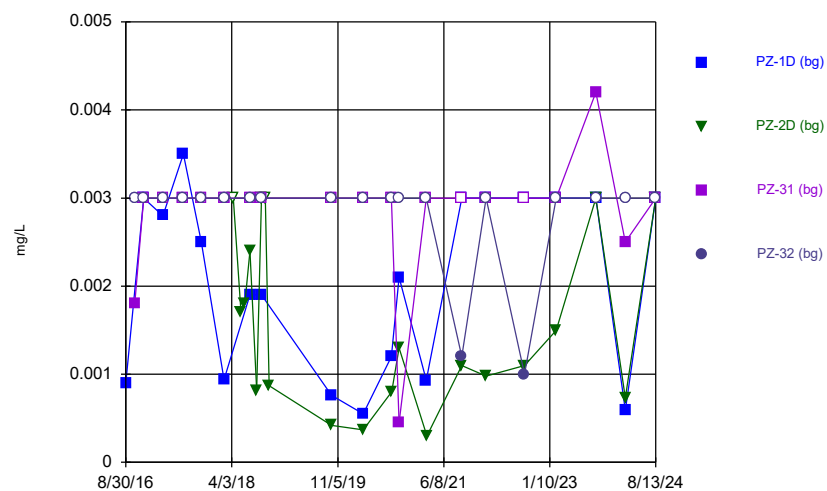
FIGURE F.

Upper Tolerance Limit Summary Table

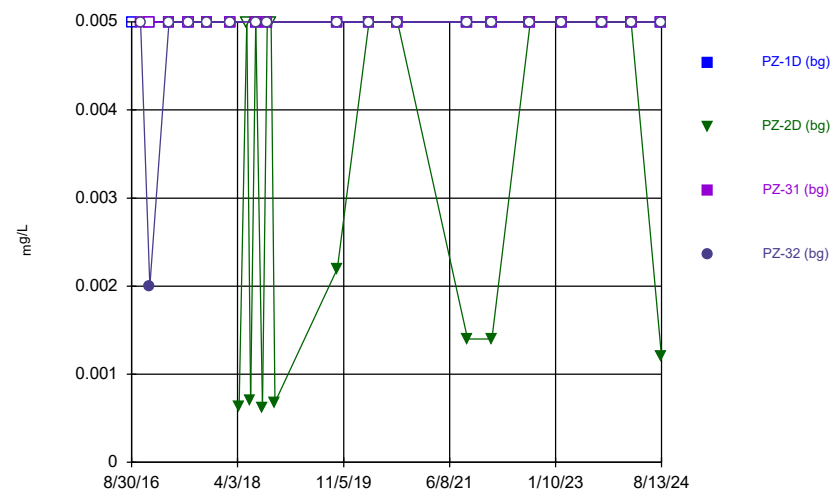
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 9/24/2024, 4:53 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0042	n/a	n/a	n/a	n/a	80	57.5	n/a	n/a	0.01652	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	n/a	72	87.5	n/a	n/a	0.02489	NP Inter(NDs)
Barium (mg/L)	0.04406	n/a	n/a	n/a	n/a	80	1.25	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	n/a	64	96.88	n/a	n/a	0.03752	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	n/a	n/a	80	30	n/a	n/a	0.01652	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	n/a	n/a	80	96.25	n/a	n/a	0.01652	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.598	n/a	n/a	n/a	n/a	78	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	n/a	n/a	84	46.43	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	80	83.75	n/a	n/a	0.01652	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	80	81.25	n/a	n/a	0.01652	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	72	91.67	n/a	n/a	0.02489	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	n/a	n/a	80	76.25	n/a	n/a	0.01652	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	80	100	n/a	n/a	0.01652	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	80	91.25	n/a	n/a	0.01652	NP Inter(NDs)

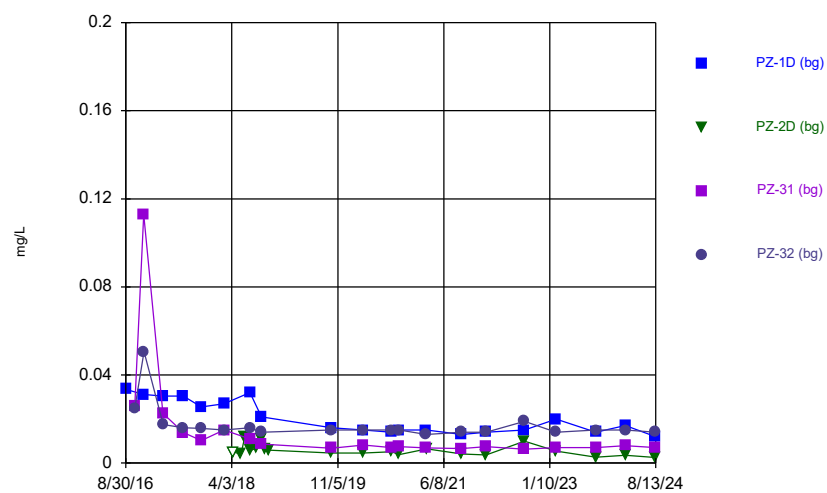
Time Series



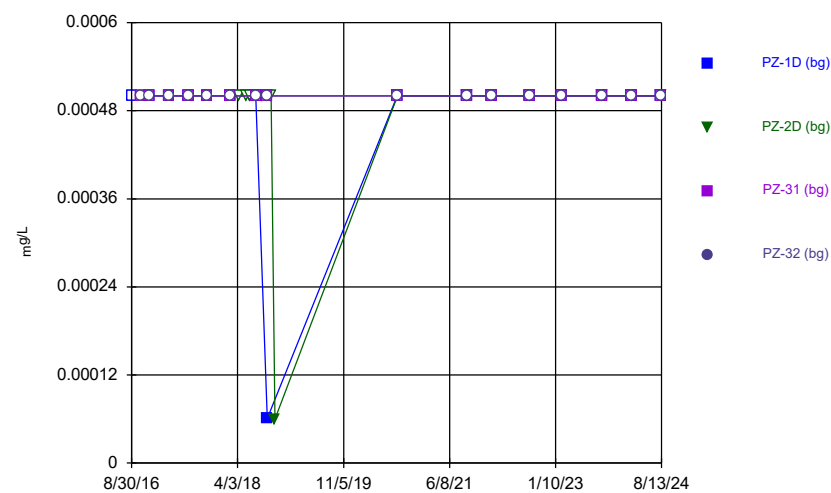
Time Series



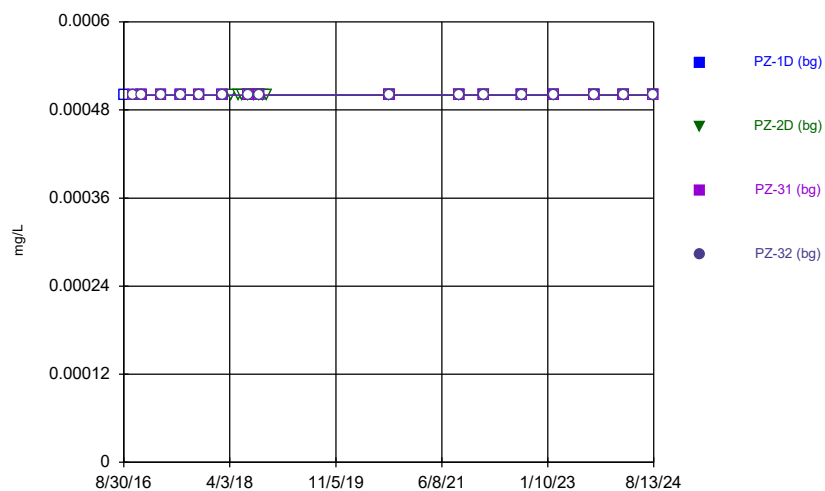
Time Series



Time Series

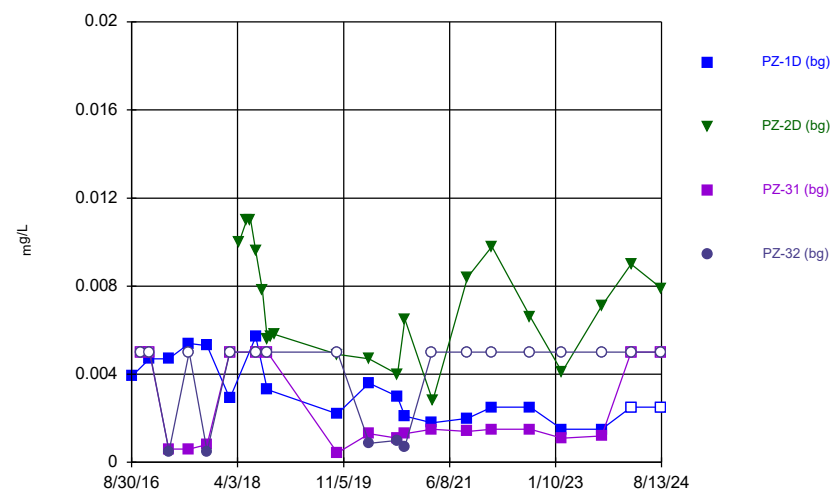


Time Series



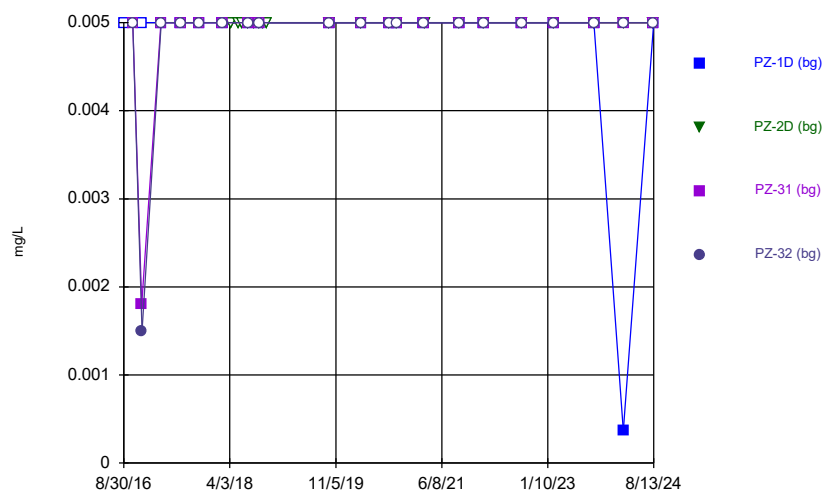
Constituent: Cadmium Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



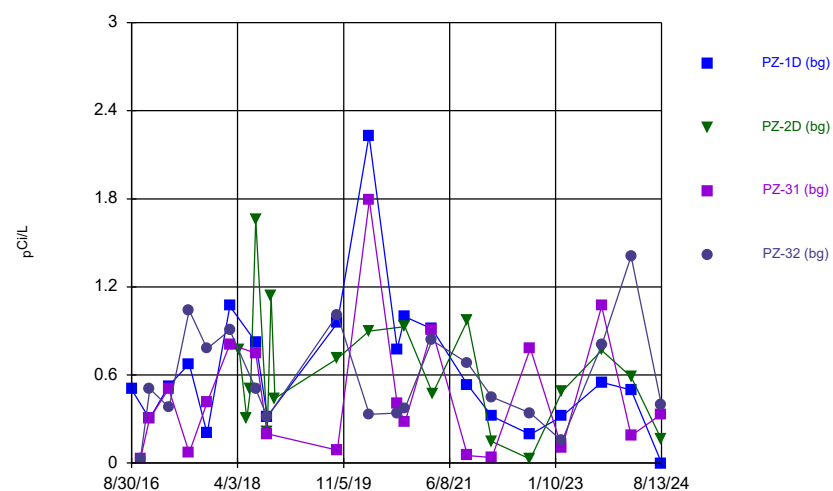
Constituent: Chromium Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



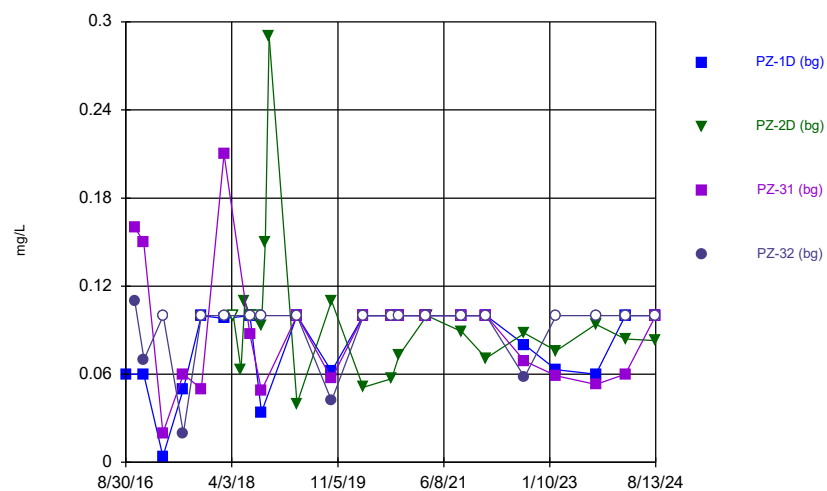
Constituent: Cobalt Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



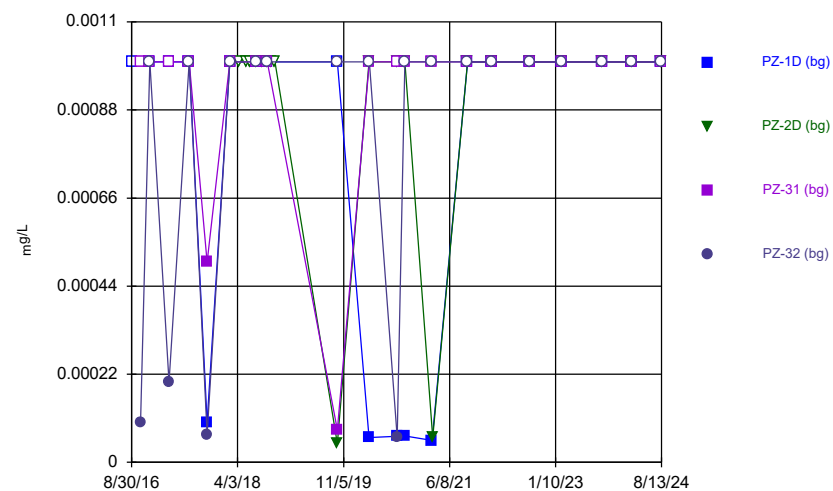
Constituent: Combined Radium 226 + 228 Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



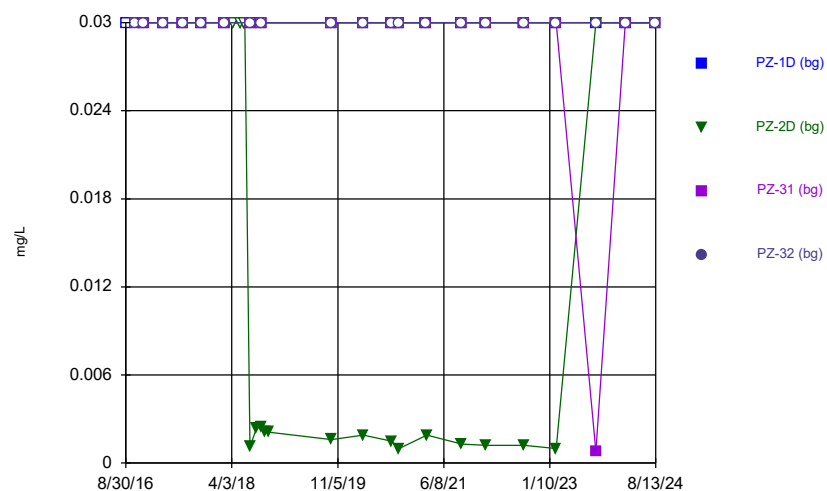
Constituent: Fluoride Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



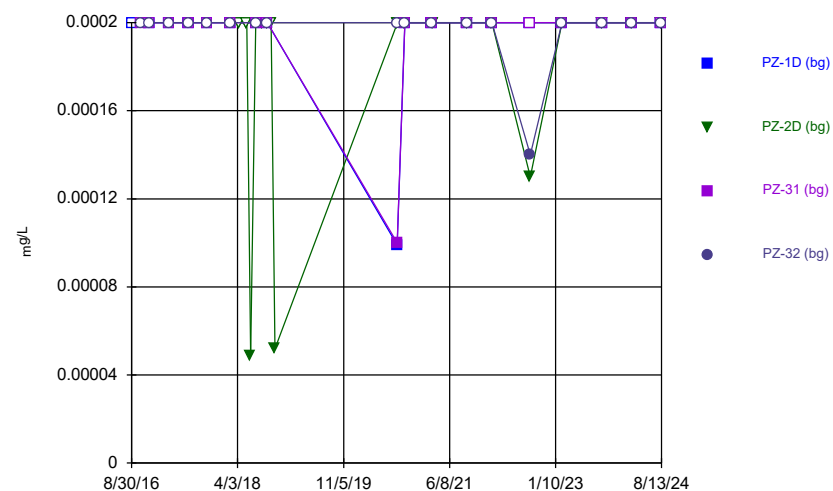
Constituent: Lead Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



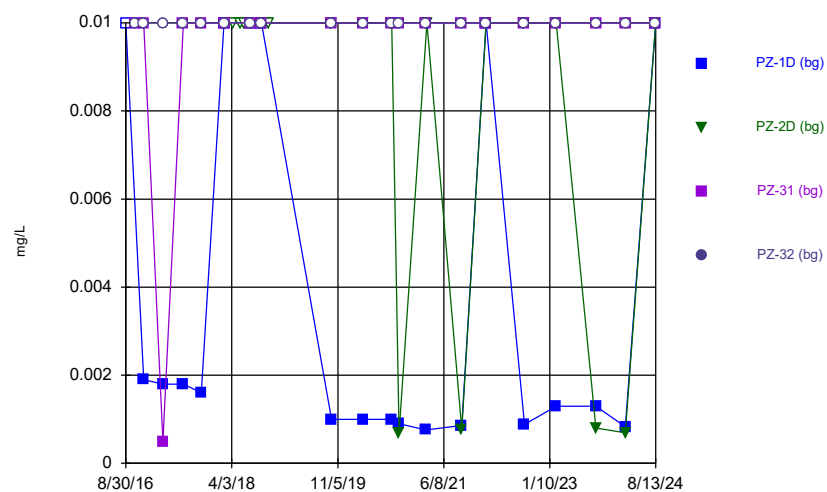
Constituent: Lithium Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



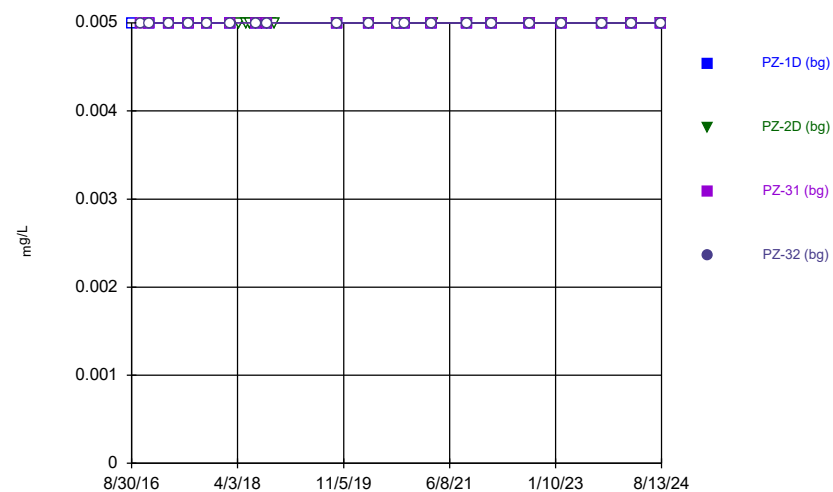
Constituent: Mercury Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



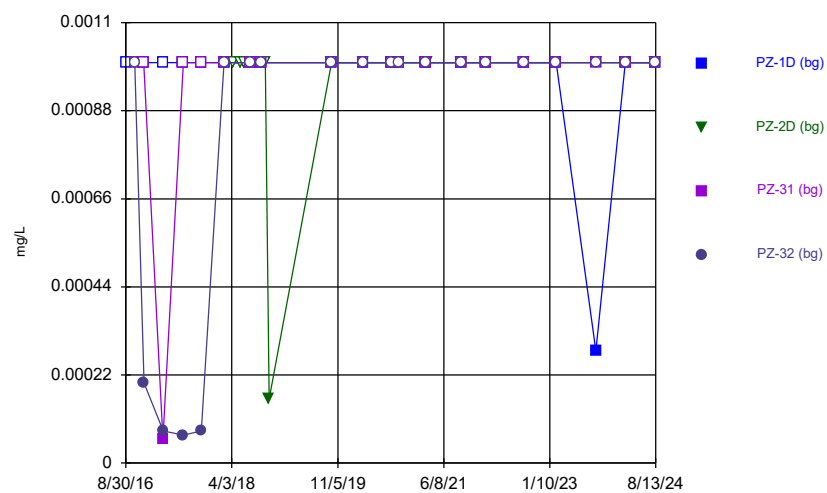
Constituent: Molybdenum Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



Constituent: Selenium Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

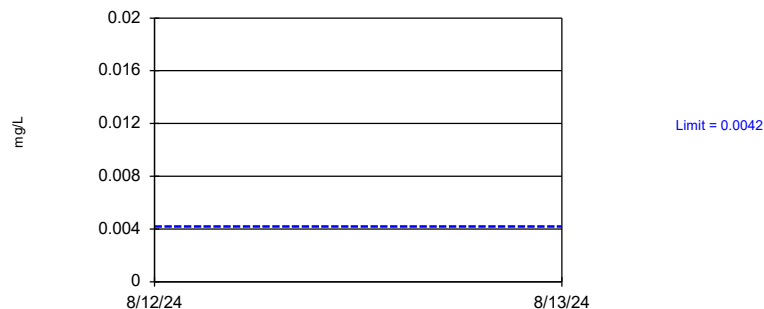
Time Series



Constituent: Thallium Analysis Run 9/24/2024 4:52 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

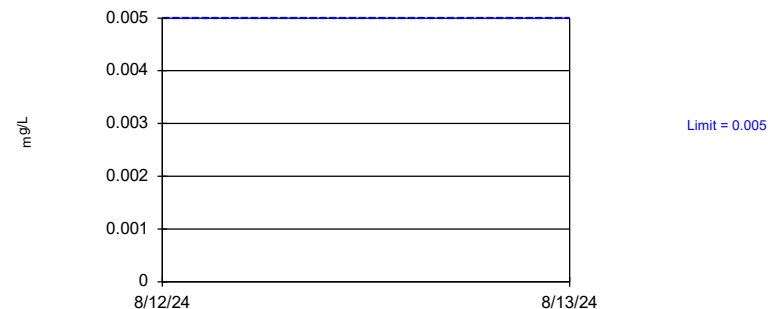


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 57.5% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Antimony Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Arsenic Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Parametric

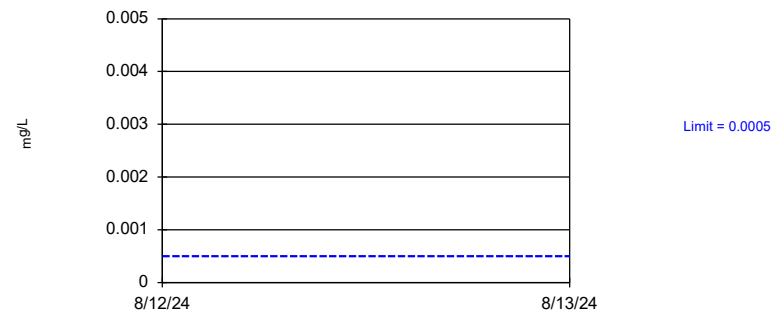


95% coverage. Background Data Summary (based on natural log transformation): Mean=-4.468, Std. Dev.=0.6859, n=80, 1.25% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.964, critical = 0.957. Report alpha = 0.05.

Constituent: Barium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

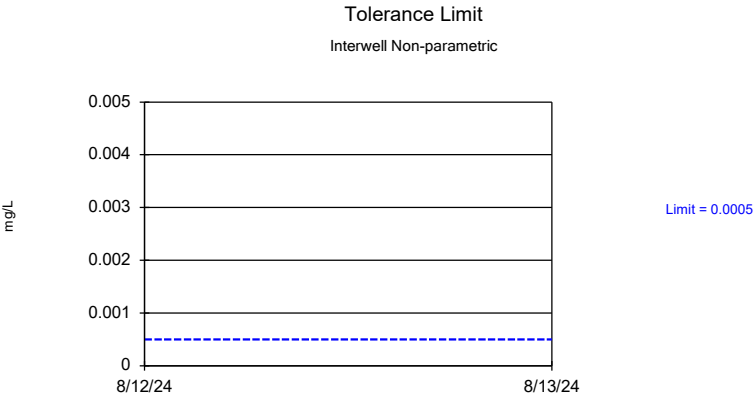
Tolerance Limit

Interwell Non-parametric



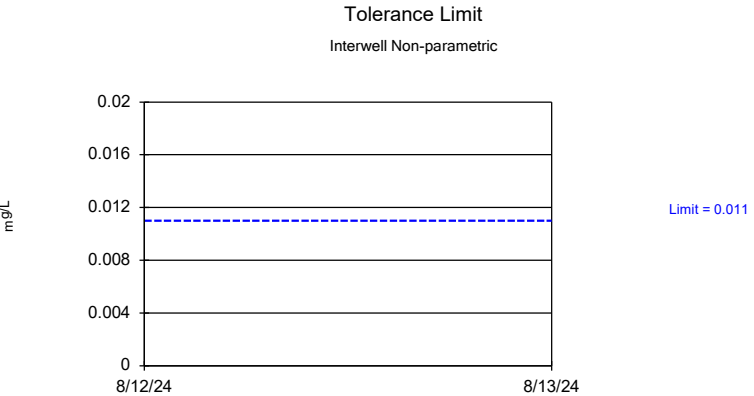
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 64 background values. 96.88% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Beryllium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



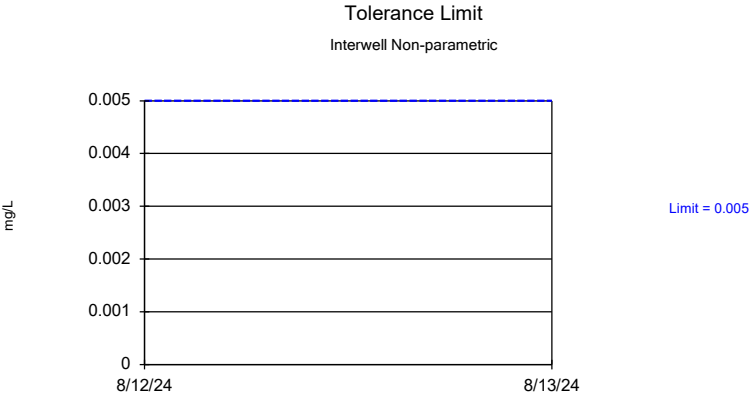
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Cadmium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



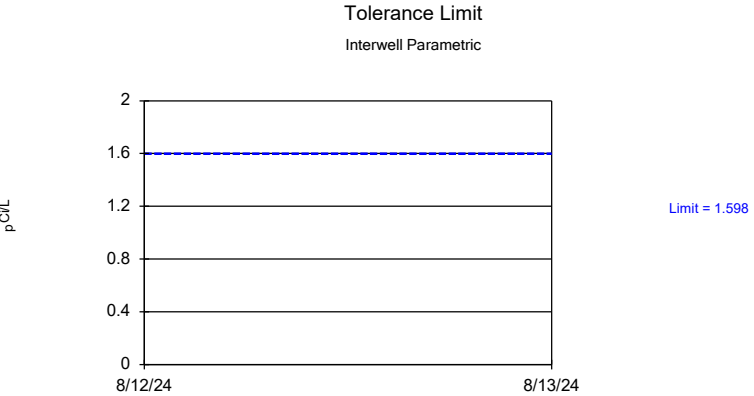
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 30% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Chromium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 96.25% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Cobalt Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

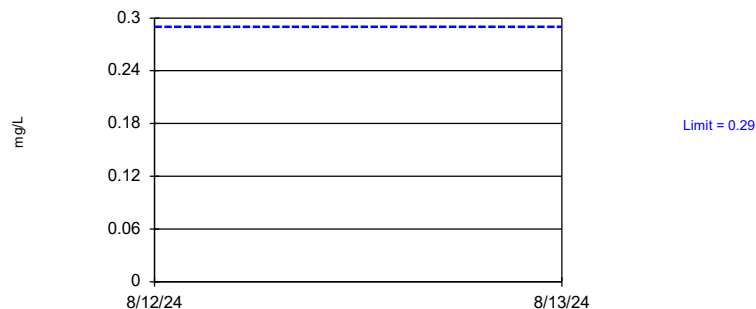


95% coverage. Background Data Summary (based on square root transformation): Mean=0.7005, Std. Dev.=0.2867, n=78. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9855, critical = 0.957. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

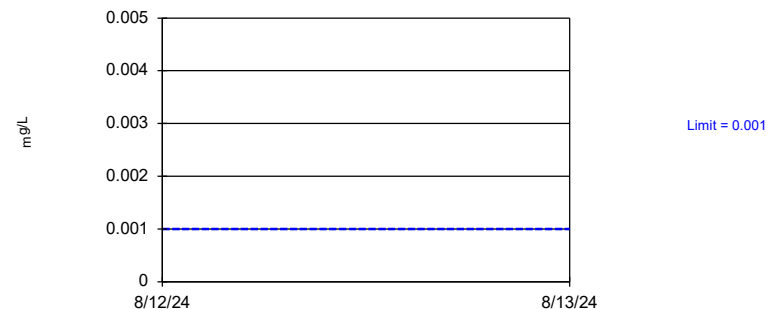


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 46.43% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Fluoride Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

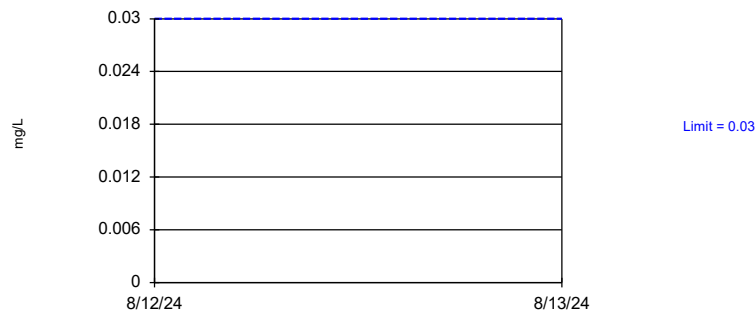


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 83.75% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Lead Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

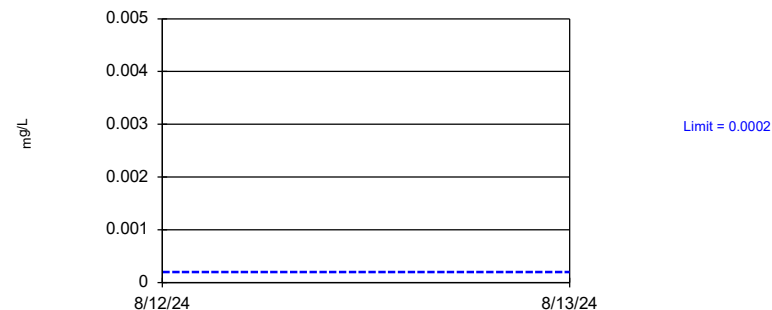


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 81.25% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Lithium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

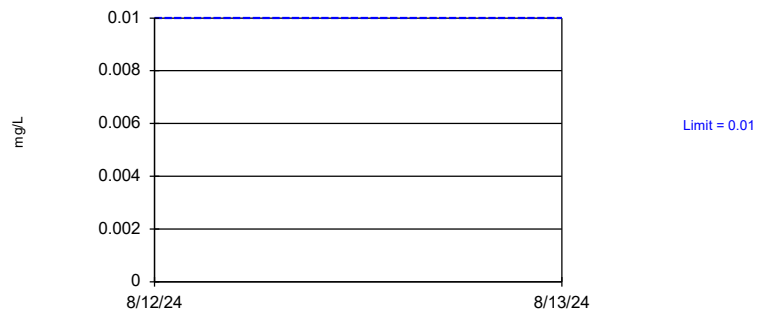


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 72 background values. 91.67% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Mercury Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

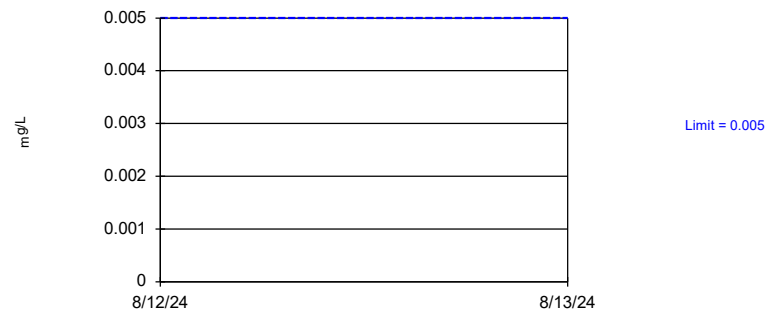


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 76.25% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Molybdenum Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric

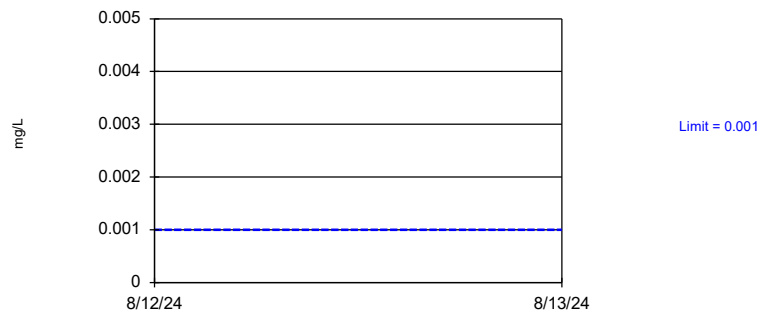


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Selenium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 80 background values. 91.25% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Thallium Analysis Run 9/24/2024 4:51 PM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE G.

PLANT MITCHELL ASH POND GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.044	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.6	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Appendix IV - All Results (No Significant)

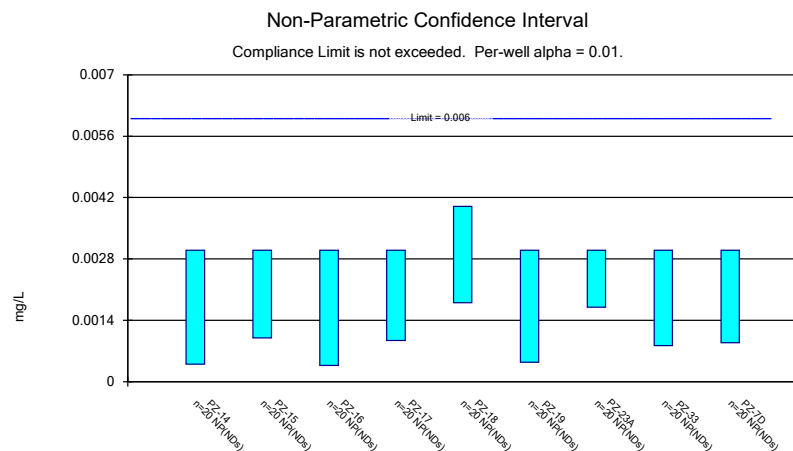
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/7/2025, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No 20	0.00287	0.0005814	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No 20	0.002781	0.0006769	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No 20	0.002869	0.0005881	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No 20	0.002543	0.0009403	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No 20	0.00291	0.0005046	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No 20	0.002872	0.0005724	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No 20	0.002804	0.0006402	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No 20	0.00276	0.0007438	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00089	0.006	No 20	0.002496	0.001041	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No 18	0.004768	0.0009829	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No 18	0.004311	0.001589	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No 18	0.004284	0.001646	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No 18	0.004761	0.001014	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00089	0.01	No 18	0.004514	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.0017	0.01	No 18	0.004113	0.001719	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.0013	0.01	No 18	0.00433	0.001545	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-7D	0.005	0.0012	0.01	No 18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02756	0.01528	2	No 20	0.0223	0.01281	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.0613	0.048	2	No 20	0.0574	0.01409	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0446	0.034	2	No 20	0.0414	0.01217	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07651	0.06432	2	No 20	0.07042	0.01073	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0273	0.023	2	No 20	0.0288	0.0119	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05721	0.05178	2	No 20	0.0545	0.004787	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04713	0.0364	2	No 20	0.04211	0.009979	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No 20	0.1065	0.00821	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.0753	0.04	2	No 19	0.056	0.01594	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-7D	0.008941	0.006524	2	No 20	0.007825	0.002259	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No 16	0.0004625	0.0001025	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No 16	0.000475	0.0001	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0013	0.1	No 20	0.003357	0.001877	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No 20	0.003215	0.002032	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No 20	0.004778	0.0009928	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No 20	0.004786	0.0009548	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002198	0.001377	0.1	No 20	0.0026	0.001421	20	Kaplan-Meier x^(1/3)		0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No 20	0.004835	0.0007379	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002122	0.0009544	0.1	No 20	0.003995	0.003663	25	Kaplan-Meier x^(1/3)		0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No 20	0.004615	0.001217	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0012	0.006	No 20	0.0039	0.001961	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No 20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No 20	0.003681	0.002072	70	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No 20	0.004805	0.0008721	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No 20	0.004605	0.001217	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.0008	0.006	No 20	0.003892	0.001971	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.001815	0.001108	0.006	No 20	0.001572	0.0009049	5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-33	0.005	0.0012	0.006	No 20	0.003891	0.001878	70	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.8097	0.296	5	No 20	0.6144	0.5295	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.018	0.7132	5	No 20	0.8786	0.2998	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8152	0.4462	5	No 20	0.6307	0.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.072	0.5867	5	No 19	0.8295	0.4146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.041	0.4465	5	No 18	0.7437	0.4911	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.23	0.7296	5	No 20	0.9797	0.4405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.107	0.655	5	No 20	0.8812	0.3983	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.114	0.7235	5	No 20	0.919	0.3442	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9333	0.5495	5	No 20	0.7414	0.338	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6494	0.3031	5	No 20	0.4763	0.3049	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.07	4	No 21	0.09081	0.02298	66.67	None	No	0.01	NP (NDs)

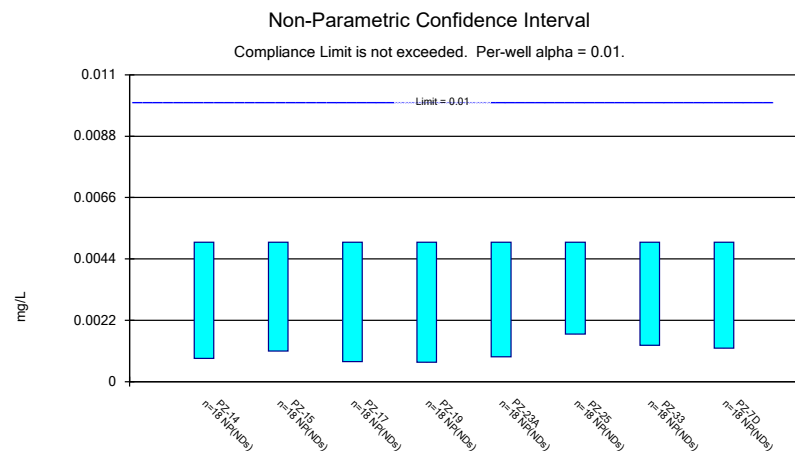
Appendix IV - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/7/2025, 11:37 AM

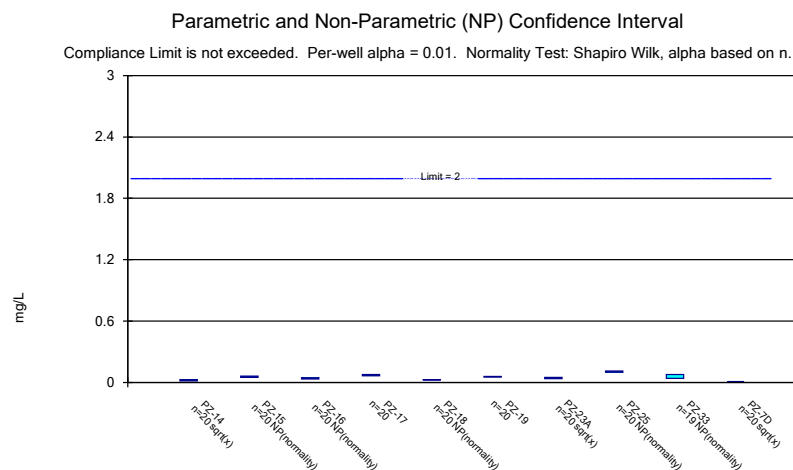
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.104	0.06682	4	No	21	0.1007	0.04292	33.33	Kaplan-Meier In(x)		0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	21	0.08448	0.02347	61.9	Kaplan-Meier No		0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1161	0.06035	4	No	21	0.1107	0.05915	33.33	Kaplan-Meier sqrt(x)		0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.086	4	No	21	0.09957	0.03118	61.9	Kaplan-Meier No		0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.065	4	No	21	0.1076	0.07015	9.524	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.08865	0.05694	4	No	21	0.09533	0.05266	38.1	Kaplan-Meier In(x)		0.01	Param.
Fluoride (mg/L)	PZ-25	0.2155	0.1447	4	No	21	0.1838	0.06924	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.074	4	No	21	0.1007	0.03873	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.1	0.056	4	No	21	0.08819	0.02917	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	20	0.0009525	0.0002124	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	20	0.0009541	0.0002055	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	20	0.0009236	0.0002434	90	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	20	0.0009521	0.0002142	95	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	20	0.0008628	0.0003357	85	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	20	0.0009069	0.0002868	90	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	20	0.0009521	0.0002144	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	20	0.02865	0.006037	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	20	0.01132	0.01406	35	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	20	0.007765	0.01142	20	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0025	0.04	No	20	0.005155	0.006823	10	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01407	0.01093	0.04	No	20	0.0125	0.002768	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.0011	0.04	No	20	0.02129	0.01364	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006798	0.005652	0.04	No	20	0.006225	0.00101	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0034	0.0024	0.04	No	20	0.00897	0.02732	5	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	18	0.00019	0.00003218	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	18	0.0001943	0.00002428	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	18	0.0001927	0.00003111	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	18	0.0001937	0.00002687	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	18	0.0001921	0.00003371	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	18	0.0001858	0.0000423	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	18	0.0001922	0.00002647	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	18	0.0001918	0.00003465	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	18	0.0001774	0.00005362	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	18	0.0001841	0.00004642	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	20	0.009525	0.002124	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	20	0.00952	0.002147	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0023	0.0019	0.1	No	20	0.002265	0.0006953	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	20	0.009085	0.002817	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	20	0.00955	0.002012	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	20	0.004635	0.001124	90	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	20	0.00484	0.0007155	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.003674	0.002316	0.05	No	20	0.00561	0.003437	35	Kaplan-Meier In(x)		0.01	Param.
Selenium (mg/L)	PZ-23A	0.01	0.0019	0.05	No	20	0.004925	0.00384	35	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	20	0.0035	0.001708	55	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	20	0.000953	0.0002102	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	20	0.0007605	0.0003761	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	20	0.0007502	0.0003927	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00025	0.002	No	20	0.0006465	0.0003677	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	20	0.0008581	0.0003467	85	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006392	0.0004798	0.002	No	20	0.0005595	0.0001404	5	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00018	0.002	No	20	0.000636	0.0004147	55	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	20	0.0006825	0.0002967	40	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00018	0.002	No	20	0.0007815	0.0003887	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0002	0.002	No	20	0.0007782	0.0003949	75	None	No	0.01	NP (NDs)



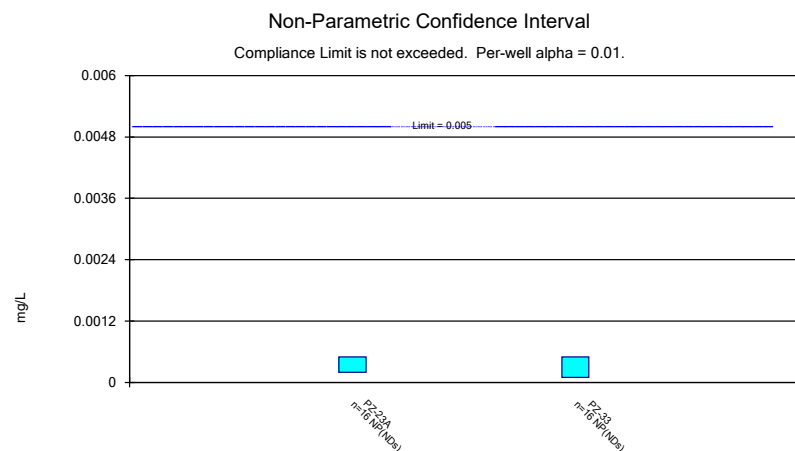
Constituent: Antimony Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Arsenic Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



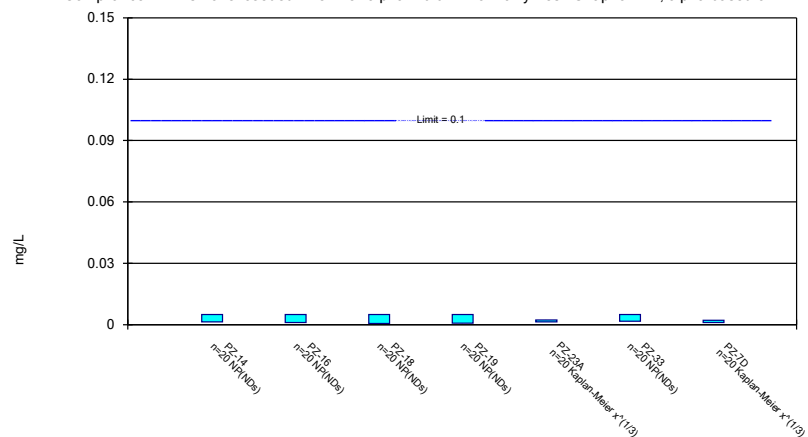
Constituent: Barium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Cadmium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

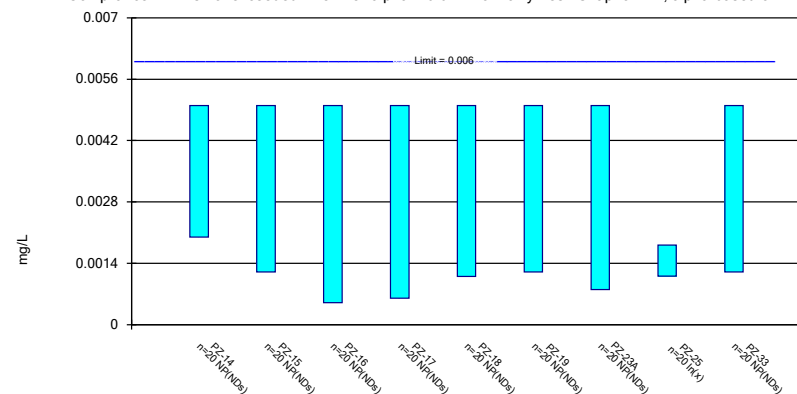
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Constituent: Chromium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

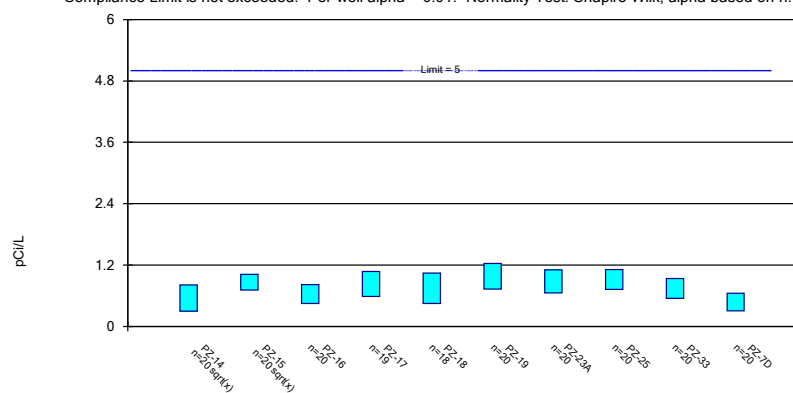
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Constituent: Cobalt Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric Confidence Interval

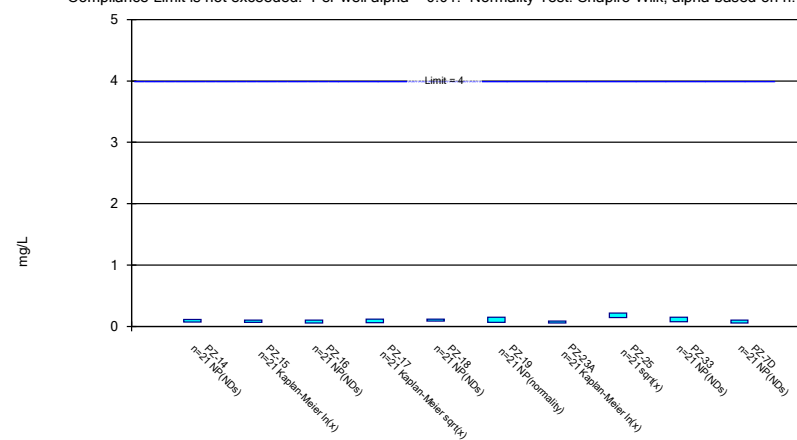
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Constituent: Combined Radium 226 + 228 Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confiden
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

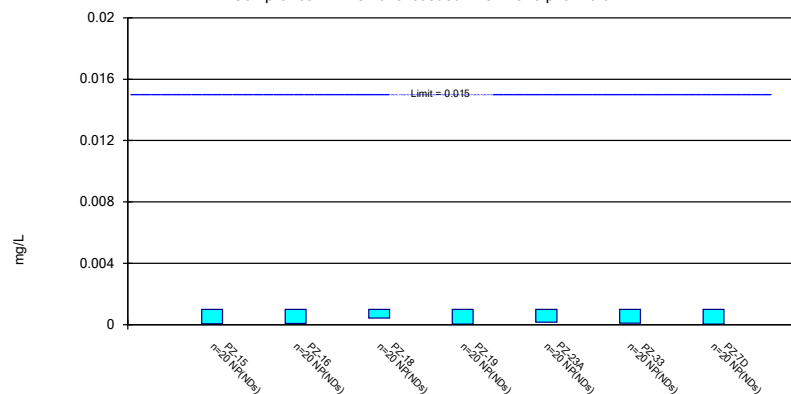
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Constituent: Fluoride Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

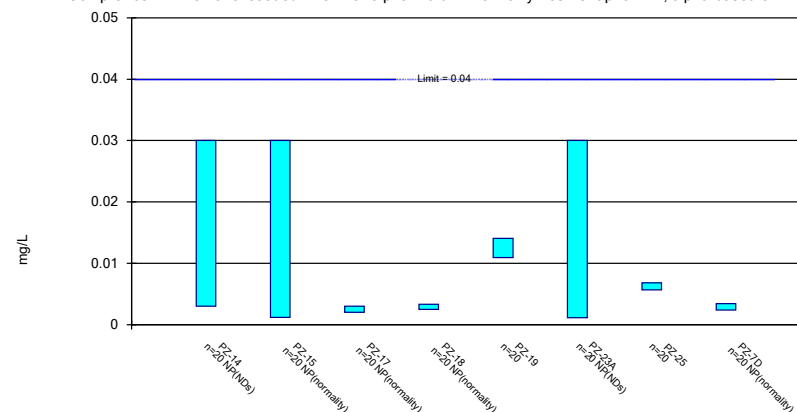
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Constituent: Lead Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

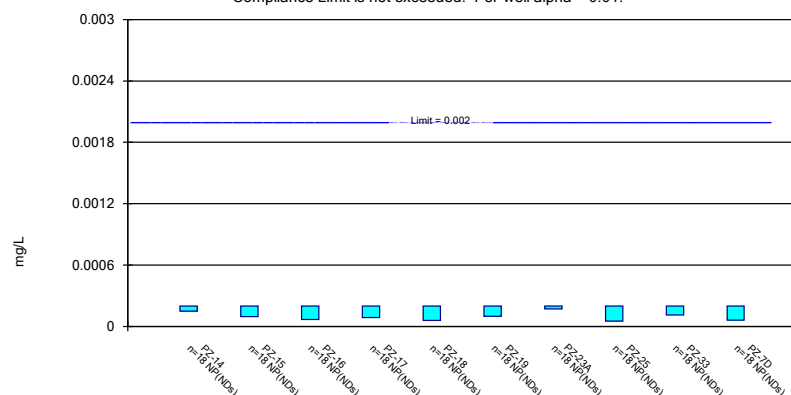
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Constituent: Lithium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

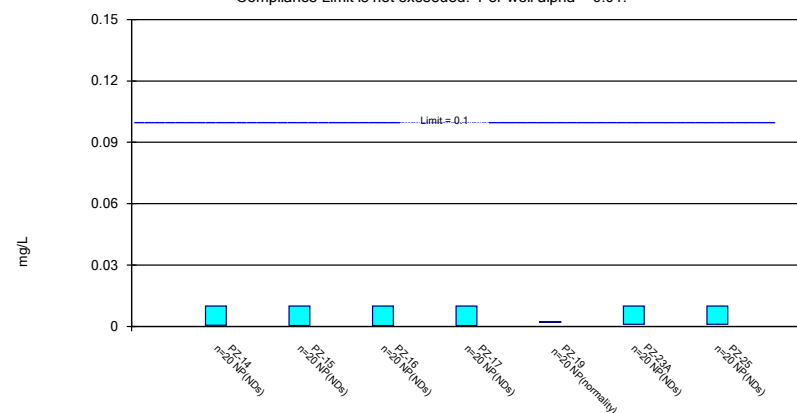
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Constituent: Mercury Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

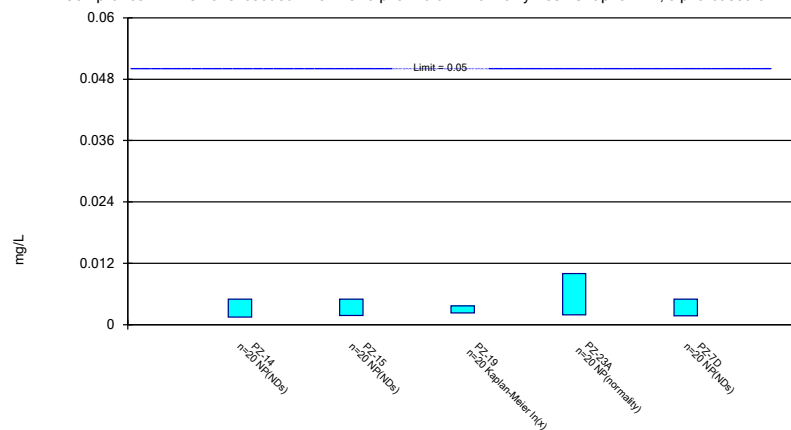
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Constituent: Molybdenum Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

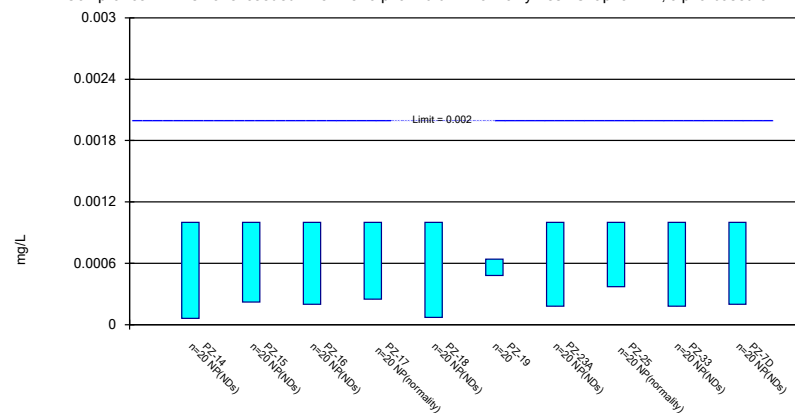
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Constituent: Selenium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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: Thallium Analysis Run 2/7/2025 11:30 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.003						<0.003		
9/1/2016		0.001 (J)							<0.003
9/6/2016			<0.003						
9/7/2016				<0.003	<0.003	<0.003			
12/7/2016	<0.003	<0.003	<0.003				<0.003		<0.003
12/8/2016				<0.003	<0.003	<0.003		<0.003	
3/21/2017	0.0004 (J)						<0.003		
3/22/2017		<0.003	<0.003	<0.003	<0.003				<0.003
3/23/2017						<0.003		<0.003	
7/11/2017	<0.003		<0.003				<0.003		
7/12/2017		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003		
10/19/2017						<0.003		<0.003	<0.003
2/20/2018	<0.003						<0.003		
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
7/11/2018	<0.003						<0.003		
7/12/2018		<0.003	<0.003			<0.003		<0.003	<0.003
8/15/2018					<0.003				
8/16/2018				<0.003					
9/12/2018	<0.003								
9/13/2018		<0.003	<0.003		<0.003		<0.003		<0.003
9/14/2018				<0.003		<0.003		<0.003	
10/4/2018								<0.003	
9/10/2019							<0.003		
10/2/2019	<0.003	<0.003	<0.003	<0.003					
10/3/2019					<0.003	0.00044 (X)		<0.003	0.00029 (X)
3/25/2020	<0.003			0.00094 (J)			<0.003		
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003		<0.003	0.00042 (J)
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003	0.00038 (J)	<0.003	0.00031 (J)
8/27/2020					<0.003				
10/6/2020	<0.003		<0.003				<0.003		
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003		0.00037 (J)	<0.003
3/3/2021	<0.003					<0.003	0.0017 (J)		
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003			<0.003	<0.003
9/15/2021	<0.003	<0.003	<0.003				<0.003		
9/16/2021				<0.003	<0.003	<0.003		<0.003	<0.003
1/26/2022	<0.003	<0.003	<0.003				<0.003		
1/27/2022				<0.003	<0.003	<0.003		<0.003	<0.003
8/24/2022								0.00082 (J)	
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
2/14/2023	<0.003						<0.003		
2/15/2023		<0.003	<0.003		<0.003	<0.003			<0.003
2/16/2023				<0.003				<0.003	
9/19/2023			<0.003						
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003	<0.003		<0.003
9/21/2023								<0.003	
2/28/2024		<0.003					<0.003		0.00089 (J)
2/29/2024	<0.003		<0.003	0.00076 (J)	<0.003	<0.003		<0.003	
8/14/2024	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		
8/15/2024				<0.003				<0.003	<0.003
Mean	0.00287	0.002781	0.002869	0.002543	0.00291	0.002872	0.002804	0.00276	0.002496
Std. Dev.	0.0005814	0.0006769	0.0005881	0.0009403	0.0005046	0.0005724	0.0006402	0.0007438	0.001041

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-33	PZ-7D
Upper Lim.	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003
Lower Lim.	0.0004	0.001	0.00037	0.00094	0.0018	0.00044	0.0017	0.00082	0.00089

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
 Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-19	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.005				<0.005			
9/1/2016		<0.005						<0.005
9/7/2016			<0.005	<0.005				
9/8/2016						0.0017 (J)		
12/7/2016	<0.005	<0.005			<0.005			<0.005
12/8/2016			<0.005	<0.005		<0.005	<0.005	
3/21/2017	<0.005				<0.005			
3/22/2017		0.0011 (J)	0.0007 (J)			0.001 (J)		<0.005
3/23/2017				0.0007 (J)			0.0007 (J)	
7/11/2017	<0.005				<0.005	<0.005		
7/12/2017		0.0006 (J)	<0.005	<0.005			<0.005	<0.005
10/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005		
10/19/2017				<0.005			<0.005	<0.005
2/20/2018	<0.005				<0.005			
2/21/2018		0.00089 (J)	0.00072 (J)	<0.005		0.00071 (J)	0.00094 (J)	<0.005
7/11/2018	<0.005				<0.005			
7/12/2018		<0.005		<0.005		<0.005	<0.005	<0.005
8/16/2018			0.0007 (J)					
9/12/2018	<0.005							
9/13/2018		<0.005			<0.005	<0.005		<0.005
9/14/2018			<0.005	<0.005			<0.005	
10/4/2018							<0.005	
9/10/2019					0.00036 (X)			
10/2/2019	0.00083 (X)	<0.005	<0.005			0.00063 (X)		
10/3/2019				<0.005			<0.005	<0.005
3/25/2020	<0.005		<0.005		<0.005	<0.005		
3/26/2020		<0.005		<0.005			<0.005	<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2021	<0.005	<0.005			<0.005	<0.005		
9/16/2021			<0.005	<0.005			<0.005	<0.005
1/26/2022	<0.005	<0.005			<0.005	<0.005		
1/27/2022			<0.005	<0.005			<0.005	<0.005
8/24/2022						<0.005	<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
2/14/2023	<0.005				<0.005			
2/15/2023		<0.005		<0.005		<0.005		<0.005
2/16/2023			<0.005				<0.005	
9/19/2023						<0.005		
9/20/2023	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
9/21/2023							<0.005	
2/27/2024						<0.005		
2/28/2024		<0.005			<0.005			<0.005
2/29/2024	<0.005		<0.005	<0.005			<0.005	
8/13/2024						<0.005		
8/14/2024	<0.005	<0.005		<0.005	0.00089 (J)			
8/15/2024			<0.005				0.0013 (J)	0.0012 (J)
Mean	0.004768	0.004311	0.004284	0.004761	0.004514	0.004113	0.00433	0.004789
Std. Dev.	0.0009829	0.001589	0.001646	0.001014	0.001418	0.001719	0.001545	0.0008957
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00083	0.0011	0.00072	0.0007	0.00089	0.0017	0.0013	0.0012

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	0.0253						0.0407		
9/1/2016		0.103							
9/6/2016			0.0794						
9/7/2016				0.0823	0.0717	0.067			
9/8/2016								0.102	
12/7/2016	0.065	0.0781	0.0689				0.0581		
12/8/2016				0.0668	0.0513	0.0522		0.102	0.162 (o)
3/21/2017	0.0379						0.0678		
3/22/2017		0.0589	0.0423	0.0821	0.0273			0.0951	
3/23/2017						0.0591			0.0753
7/11/2017	0.036		0.0467				0.0574	0.102	
7/12/2017		0.0613		0.0805	0.0269	0.0604			0.0756
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258		0.0351	0.0997	
10/19/2017						0.0542			0.0681
2/20/2018	0.03						0.05		
2/21/2018		0.076	0.046	0.073	0.029	0.058		0.11	0.085
7/11/2018	0.027						0.051		
7/12/2018		0.056	0.043			0.057		0.1	0.076
8/15/2018					0.027				
8/16/2018				0.081					
9/12/2018	0.022								
9/13/2018		0.048	0.038		0.023		0.038	0.1	
9/14/2018				0.081		0.058			0.071
10/4/2018									0.072
9/10/2019							0.029		
10/2/2019	0.017	0.049	0.038	0.074				0.11	
10/3/2019					0.025	0.057			0.057
3/25/2020	0.021			0.077			0.048	0.11	
3/26/2020		0.048	0.034		0.023	0.052			0.057
8/26/2020	0.016	0.053	0.036	0.077		0.049	0.039	0.1	0.051
8/27/2020					0.023				
10/6/2020	0.016		0.034				0.037		
10/7/2020		0.049		0.074	0.023	0.054		0.11	0.048
3/3/2021	0.017					0.055	0.039	0.12	
3/4/2021		0.047	0.035	0.071	0.023				0.047
9/15/2021	0.014	0.045	0.032				0.037	0.11	
9/16/2021				0.064	0.022	0.053			0.039
1/26/2022	0.016	0.055	0.034				0.039	0.11	
1/27/2022				0.072	0.025	0.055			0.043
8/24/2022								0.1	0.038
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046	0.036		
2/14/2023	0.014						0.033		
2/15/2023		0.048	0.033		0.026	0.051		0.1	
2/16/2023				0.059					0.04
9/19/2023			0.038					0.11	
9/20/2023	0.01	0.05		0.058	0.022	0.053	0.035		
9/21/2023									0.041
2/27/2024								0.13	
2/28/2024		0.058					0.036		
2/29/2024	0.013		0.034	0.052	0.031	0.051			0.039
8/13/2024								0.11	
8/14/2024	0.013	0.046	0.036		0.025	0.048	0.036		

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/15/2024				0.045					0.041
Mean	0.0223	0.0574	0.0414	0.07042	0.0288	0.0545	0.04211	0.1065	0.056
Std. Dev.	0.01281	0.01409	0.01217	0.01073	0.0119	0.004787	0.009979	0.00821	0.01594
Upper Lim.	0.02756	0.0613	0.0446	0.07651	0.0273	0.05721	0.04713	0.11	0.0753
Lower Lim.	0.01528	0.048	0.034	0.06432	0.023	0.05178	0.0364	0.1	0.04

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/31/2016	
9/1/2016	0.0117
9/6/2016	
9/7/2016	
9/8/2016	
12/7/2016	0.0133
12/8/2016	
3/21/2017	
3/22/2017	0.0114
3/23/2017	
7/11/2017	
7/12/2017	0.0097 (J)
10/18/2017	
10/19/2017	0.0091 (J)
2/20/2018	
2/21/2018	0.0086 (J)
7/11/2018	
7/12/2018	0.0093 (J)
8/15/2018	
8/16/2018	
9/12/2018	
9/13/2018	0.0078 (J)
9/14/2018	
10/4/2018	
9/10/2019	
10/2/2019	
10/3/2019	0.007 (X)
3/25/2020	
3/26/2020	0.0072 (J)
8/26/2020	0.007 (J)
8/27/2020	
10/6/2020	
10/7/2020	0.0061 (J)
3/3/2021	
3/4/2021	0.0061
9/15/2021	
9/16/2021	0.0062
1/26/2022	
1/27/2022	0.0068
8/24/2022	
8/25/2022	0.0058
2/14/2023	
2/15/2023	0.006
2/16/2023	
9/19/2023	
9/20/2023	0.0059
9/21/2023	
2/27/2024	
2/28/2024	0.006
2/29/2024	
8/13/2024	
8/14/2024	

Confidence Interval

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Constituent: Barium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/15/2024	0.0055
Mean	0.007825
Std. Dev.	0.002259
Upper Lim.	0.008941
Lower Lim.	0.006524

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33
8/31/2016	0.0002 (J)	
12/7/2016	0.0002 (J)	
12/8/2016		<0.0005
3/21/2017	<0.0005	
3/23/2017		0.0001 (J)
7/11/2017	<0.0005	
7/12/2017		<0.0005
10/18/2017	<0.0005	
10/19/2017		<0.0005
2/20/2018	<0.0005	
2/21/2018		<0.0005
7/11/2018	<0.0005	
7/12/2018		<0.0005
9/13/2018	<0.0005	
9/14/2018		<0.0005
10/4/2018		<0.0005
8/26/2020	<0.0005	<0.0005
9/15/2021	<0.0005	
9/16/2021		<0.0005
1/26/2022	<0.0005	
1/27/2022		<0.0005
8/24/2022		<0.0005
8/25/2022	<0.0005	
2/14/2023	<0.0005	
2/16/2023		<0.0005
9/20/2023	<0.0005	
9/21/2023		<0.0005
2/28/2024	<0.0005	
2/29/2024		<0.0005
8/14/2024	<0.0005	
8/15/2024		<0.0005
Mean	0.0004625	0.000475
Std. Dev.	0.0001025	0.0001
Upper Lim.	0.0005	0.0005
Lower Lim.	0.0002	0.0001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.005				<0.005		
9/1/2016							<0.01
9/6/2016		<0.005					
9/7/2016			<0.005	<0.005			
12/7/2016	<0.005	<0.005			<0.005		0.003 (J)
12/8/2016			<0.005	<0.005		<0.005	
3/21/2017	<0.005				0.0009 (J)		
3/22/2017		0.0008 (J)	<0.005				0.0005 (J)
3/23/2017				<0.005		0.0017 (J)	
7/11/2017	<0.005	<0.005			0.0016 (J)		
7/12/2017			<0.005	<0.005		<0.005	<0.01
10/18/2017	<0.005	<0.005	<0.005		0.0019 (J)		
10/19/2017				<0.005		<0.005	0.0005 (J)
2/20/2018	<0.005				<0.005		
2/21/2018		<0.005	<0.005	<0.005		<0.005	<0.01
7/11/2018	<0.005				0.0021 (J)		
7/12/2018		<0.005		<0.005		<0.005	<0.01
8/15/2018			<0.005				
9/12/2018	<0.005						
9/13/2018		<0.005	<0.005		0.0022 (J)		<0.01
9/14/2018				<0.005		<0.005	
10/4/2018						<0.005	
9/10/2019					0.0044 (X)		
10/2/2019	<0.005	0.00044 (X)					
10/3/2019			<0.005	<0.005		<0.005	0.0004 (X)
3/25/2020	0.0013 (J)				0.0012 (J)		
3/26/2020		0.0013 (J)	0.00056 (J)	0.00073 (J)		<0.005	0.0016 (J)
8/26/2020	0.0011 (J)	0.00087 (J)		<0.005	0.0014 (J)	<0.005	0.0011 (J)
8/27/2020			<0.005				
10/6/2020	0.00098 (J)	0.0011 (J)			0.0015 (J)		
10/7/2020			<0.005	<0.005		<0.005	0.0014 (J)
3/3/2021	0.00097 (J)			<0.005	0.0015 (J)		
3/4/2021		0.0012 (J)	<0.005			<0.005	0.0024 (J)
9/15/2021	0.0014 (J)	0.0011 (J)			0.0019 (J)		
9/16/2021			<0.005	<0.005		<0.005	0.0025 (J)
1/26/2022	0.0012 (J)	0.0013 (J)			0.0028 (J)		
1/27/2022			<0.005	<0.005		<0.005	0.0034 (J)
8/24/2022						<0.005	
8/25/2022	0.0014 (J)	0.0012 (J)	<0.005	<0.005	0.0022 (J)		0.0024 (J)
2/14/2023	0.0018 (J)				0.0024 (J)		
2/15/2023		<0.005	<0.005	<0.005			0.0034 (J)
2/16/2023						<0.005	
9/19/2023		<0.005					
9/20/2023	0.002 (J)		<0.005	<0.005	0.002 (J)		0.0022 (J)
9/21/2023						<0.005	
2/28/2024					0.002 (J)		0.0025 (J)
2/29/2024	<0.005	<0.005	<0.005	<0.005		<0.005	
8/14/2024	<0.005	<0.005	<0.005	<0.005	<0.005		
8/15/2024						<0.005	0.0026 (J)
Mean	0.003357	0.003215	0.004778	0.004786	0.0026	0.004835	0.003995
Std. Dev.	0.001877	0.002032	0.0009928	0.0009548	0.001421	0.0007379	0.003663
Upper Lim.	0.005	0.005	0.005	0.005	0.002198	0.005	0.002122

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33	PZ-7D
Lower Lim.	0.0013	0.0011	0.00056	0.00073	0.001377	0.0017	0.0009544

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.005						<0.005		
9/1/2016		0.0012 (J)							
9/6/2016			0.0005 (J)						
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)			
9/8/2016								0.0008 (J)	
12/7/2016	0.002 (J)	0.0005 (J)	<0.005				0.0008 (J)		
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)		<0.01	0.0041 (J)
3/21/2017	<0.005						<0.005		
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005			0.001 (J)	
3/23/2017						<0.005			0.0008 (J)
7/11/2017	0.0003 (J)		<0.005				<0.005	0.001 (J)	
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005			0.0007 (J)
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005		<0.005	0.0011 (J)	
10/19/2017						<0.005			0.0005 (J)
2/20/2018	<0.005						<0.005		
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		0.00075 (J)	0.0012 (J)
7/11/2018	<0.005						<0.005		
7/12/2018		<0.005	<0.005			<0.005		0.0008 (J)	0.00053 (J)
8/15/2018					<0.005				
8/16/2018				<0.005					
9/12/2018	<0.005								
9/13/2018		<0.005	<0.005		<0.005		<0.005	0.001 (J)	
9/14/2018				<0.005		<0.005			<0.005
10/4/2018									<0.005
9/10/2019							<0.005		
10/2/2019	<0.005	<0.005	<0.005	<0.005				0.0017 (X)	
10/3/2019					<0.005	<0.005			<0.005
3/25/2020	<0.005			0.00032 (J)			0.0003 (J)	0.0018 (J)	
3/26/2020		<0.005	<0.005		<0.005	<0.005			<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005	0.00058 (J)	0.0016 (J)	<0.005
8/27/2020					<0.005				
10/6/2020	<0.005		<0.005				0.00067 (J)		
10/7/2020		<0.005		<0.005	<0.005	<0.005		0.0014 (J)	<0.005
3/3/2021	<0.005					<0.005	0.00049 (J)	0.0016 (J)	
3/4/2021		<0.005	<0.005	<0.005	<0.005				<0.005
9/15/2021	<0.005	<0.005	<0.005				<0.005	0.002 (J)	
9/16/2021				<0.005	<0.005	<0.005			<0.005
1/26/2022	<0.005	<0.005	<0.005				<0.005	0.0016 (J)	
1/27/2022				<0.005	<0.005	<0.005			<0.005
8/24/2022								0.0016 (J)	<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
2/14/2023	<0.005						<0.005		
2/15/2023		<0.005	<0.005		<0.005	<0.005		0.0012 (J)	
2/16/2023				<0.005					<0.005
9/19/2023			<0.005					0.0017 (J)	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		
9/21/2023									<0.005
2/27/2024								0.0017 (J)	
2/28/2024		<0.005					<0.005		
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005			<0.005
8/13/2024								0.0021 (J)	
8/14/2024	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005		

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/15/2024				<0.005					<0.005
Mean	0.004615	0.0039	0.004775	0.003681	0.004805	0.004605	0.003892	0.001572	0.003891
Std. Dev.	0.001217	0.001961	0.001006	0.002072	0.0008721	0.001217	0.001971	0.0009049	0.001878
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001815	0.005
Lower Lim.	0.002	0.0012	0.0005	0.0006	0.0011	0.0012	0.0008	0.001108	0.0012

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	1.77						1.85		
9/1/2016		1.19							
9/6/2016			1.12						
9/7/2016				1.06 (U)	1.51	1.22			
9/8/2016								1.41	
12/7/2016	0.672 (U)	1.88	1.37				0.844 (U)		
12/8/2016				1.3	1.29	1.69		1.39	0.968 (U)
3/21/2017	0.33 (U)						0.832 (U)		
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)			0.852 (U)	
3/23/2017						1.07			0.444 (U)
7/11/2017	0.701 (U)		0.76 (U)				0.824 (U)	1.04	
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)			0.814 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)		1.19	0.678 (U)	
10/19/2017						0.398 (U)			0.748 (U)
2/20/2018	2.12						0.975 (U)		
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)		0.863 (U)	1.05 (U)
7/11/2018	0.232 (U)						1.29		
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)		1.42	0.751 (U)
9/12/2018	0.532 (U)								
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)		0.765 (U)	0.766 (U)	
9/14/2018				1.16		0.74 (U)			1.01 (U)
10/4/2018									1.05
9/10/2019							0.575 (U)		
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)				1.48	
10/3/2019					2.07	1.9			1.62 (U)
3/25/2020	0.694 (U)			0.385 (U)			1.39	0.91 (U)	
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66			0.473 (U)
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)	0.774 (U)	0.95 (U)	0.782 (U)
10/6/2020	0.265 (U)		1.12 (U)				1.24 (U)		
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893		1.01 (U)	0.442 (U)
3/3/2021	0.328 (U)					0.469 (U)	1.01 (U)	0.545 (U)	
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)				1.03 (U)
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)				0.742 (U)	1.07 (U)	
9/16/2021				0.377 (U)	0.681 (U)	1.4			0.184 (U)
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)				0.76 (U)	0.282 (U)	
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)			0.259 (U)
8/24/2022								0.764 (U)	0.764 (U)
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937	0.396 (U)		
2/14/2023	0.0857 (U)						0.521 (U)		
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)		0.484 (U)	
2/16/2023				0.129 (U)					0.765
9/19/2023			0.531 (U)					1.21 (U)	
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)	0.235 (U)		
9/21/2023									0.809 (U)
2/27/2024								0.437 (U)	
2/28/2024		0.948 (U)					0.261 (U)		
2/29/2024	0.433 (U)		0.463 (U)	0.621 (U)	0.228 (U)	0.744 (U)			0.478 (U)
8/13/2024								0.818 (U)	
8/14/2024	0.071 (U)	0.747 (U)	0.937 (U)		0.365 (U)	0.684 (U)	1.15 (U)		
8/15/2024				0.846 (U)					0.387 (U)
Mean	0.6144	0.8786	0.6307	0.8295	0.7437	0.9797	0.8812	0.919	0.7414
Std. Dev.	0.5295	0.2998	0.325	0.4146	0.4911	0.4405	0.3983	0.3442	0.338

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
Upper Lim.	0.8097	1.018	0.8152	1.072	1.041	1.23	1.107	1.114	0.9333
Lower Lim.	0.296	0.7132	0.4462	0.5867	0.4465	0.7296	0.655	0.7235	0.5495

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/31/2016	
9/1/2016	0.88 (U)
9/6/2016	
9/7/2016	
9/8/2016	
12/7/2016	0.179 (U)
12/8/2016	
3/21/2017	
3/22/2017	0.279 (U)
3/23/2017	
7/11/2017	
7/12/2017	0.125 (U)
10/18/2017	
10/19/2017	0.329 (U)
2/20/2018	
2/21/2018	0.504 (U)
7/11/2018	
7/12/2018	0.188 (U)
9/12/2018	
9/13/2018	0.0542 (U)
9/14/2018	
10/4/2018	
9/10/2019	
10/2/2019	
10/3/2019	1.37
3/25/2020	
3/26/2020	0.43 (U)
8/26/2020	0.572 (U)
10/6/2020	
10/7/2020	0.232 (U)
3/3/2021	
3/4/2021	0.529 (U)
9/15/2021	
9/16/2021	0.382 (U)
1/26/2022	
1/27/2022	0.315 (U)
8/24/2022	
8/25/2022	0.771 (U)
2/14/2023	
2/15/2023	0.496 (U)
2/16/2023	
9/19/2023	
9/20/2023	0.623 (U)
9/21/2023	
2/27/2024	
2/28/2024	0.676 (U)
2/29/2024	
8/13/2024	
8/14/2024	
8/15/2024	0.591 (U)
Mean	0.4763
Std. Dev.	0.3049

Confidence Interval

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Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
Upper Lim.	0.6494
Lower Lim.	0.3031

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	0.13 (J)						0.13 (J)		
9/1/2016		0.06 (J)							
9/6/2016			0.09 (J)						
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)			
9/8/2016								0.25 (J)	
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)				0.13 (J)		
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)		0.22 (J)	0.21 (J)
3/21/2017	<0.1						0.05 (J)		
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)			0.16 (J)	
3/23/2017						0.14 (J)			0.18 (J)
7/11/2017	0.05 (J)		0.05 (J)				0.05 (J)	0.23 (J)	
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)			0.06 (J)
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)		<0.1	0.28 (J)	
10/19/2017						<0.3			<0.1
2/20/2018	0.04 (J)						0.3 (J)		
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37		0.29 (J)	0.039 (J)
7/11/2018	<0.1						0.077 (J)		
7/12/2018		<0.1	<0.1			0.17 (J)		0.21 (J)	<0.1
8/15/2018					<0.1				
8/16/2018				0.073 (J)					
9/12/2018	<0.1								
9/13/2018		0.15 (J)	<0.1		<0.1		<0.1	0.22 (J)	
9/14/2018				<0.1		<0.3			<0.1
10/4/2018									0.15 (J)
3/27/2019	<0.1		<0.1		<0.1		<0.1	0.37	
3/28/2019		0.1		0.15		0.074			<0.1
9/10/2019							<0.1		
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)				0.16 (X)	
10/3/2019					0.043 (X)	0.084 (X)			0.06 (X)
3/25/2020	<0.1			<0.1			0.066 (J)	0.13 (J)	
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)			<0.1
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)	0.057 (J)	0.14	<0.1
8/27/2020					<0.1				
10/6/2020	<0.1		<0.1				0.052 (J)		
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)		0.13	<0.1
3/3/2021	<0.1					0.058 (J)	<0.1	0.12	
3/4/2021		<0.1	<0.1	<0.1	<0.1				<0.1
9/15/2021	<0.1	<0.1	<0.1				<0.1	0.14	
9/16/2021				0.052 (J)	<0.1	0.067 (J)			<0.1
1/26/2022	<0.1	<0.1	<0.1				<0.1	0.11	
1/27/2022				<0.1	<0.1	0.056 (J)			<0.1
8/24/2022								0.15	0.092 (J)
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)	0.074 (J)		
2/14/2023	<0.1						0.084 (J)		
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)		0.16	
2/16/2023				0.077 (J)					0.082 (J)
9/19/2023			<0.1					0.14	
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)	0.062 (J)		
9/21/2023									0.074 (J)
2/27/2024								0.13	
2/28/2024		0.059 (J)					0.07 (J)		
2/29/2024	<0.1		<0.1	0.068 (J)	<0.1	0.078 (J)			0.068 (J)

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/13/2024								0.12	
8/14/2024	<0.1	<0.1	<0.1		<0.1	0.065 (J)	<0.1		
8/15/2024				<0.1					<0.1
Mean	0.09081	0.1007	0.08448	0.1107	0.09957	0.1076	0.09533	0.1838	0.1007
Std. Dev.	0.02298	0.04292	0.02347	0.05915	0.03118	0.07015	0.05266	0.06924	0.03873
Upper Lim.	0.11	0.104	0.1	0.1161	0.12	0.15	0.08865	0.2155	0.15
Lower Lim.	0.07	0.06682	0.053	0.06035	0.086	0.065	0.05694	0.1447	0.074

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/31/2016	
9/1/2016	<0.1
9/6/2016	
9/7/2016	
9/8/2016	
12/7/2016	0.15 (J)
12/8/2016	
3/21/2017	
3/22/2017	0.09 (J)
3/23/2017	
7/11/2017	
7/12/2017	0.02 (J)
10/18/2017	
10/19/2017	<0.1
2/20/2018	
2/21/2018	0.045 (J)
7/11/2018	
7/12/2018	<0.1
8/15/2018	
8/16/2018	
9/12/2018	
9/13/2018	<0.1
9/14/2018	
10/4/2018	
3/27/2019	
3/28/2019	<0.1
9/10/2019	
10/2/2019	
10/3/2019	0.041 (X)
3/25/2020	
3/26/2020	<0.1
8/26/2020	<0.1
8/27/2020	
10/6/2020	
10/7/2020	<0.1
3/3/2021	
3/4/2021	<0.1
9/15/2021	
9/16/2021	<0.1
1/26/2022	
1/27/2022	<0.1
8/24/2022	
8/25/2022	0.056 (J)
2/14/2023	
2/15/2023	0.05 (J)
2/16/2023	
9/19/2023	
9/20/2023	<0.1
9/21/2023	
2/27/2024	
2/28/2024	<0.1
2/29/2024	

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

PZ-7D

8/13/2024	
8/14/2024	
8/15/2024	<0.1
Mean	0.08819
Std. Dev.	0.02917
Upper Lim.	0.1
Lower Lim.	0.056

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-15	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33	PZ-7D
8/31/2016					<0.001		
9/1/2016	<0.001						<0.001
9/6/2016		<0.001					
9/7/2016			<0.001	<0.001			
12/7/2016	<0.001	<0.001			<0.001		<0.001
12/8/2016			<0.001	<0.001		<0.001	
3/21/2017					<0.001		
3/22/2017	5E-05 (J)	<0.001	<0.001				<0.001
3/23/2017				<0.001		9E-05 (J)	
7/11/2017		<0.001			<0.001		
7/12/2017	<0.001		<0.001	<0.001		<0.001	<0.001
10/18/2017	<0.001	<0.001	<0.001		<0.001		
10/19/2017				<0.001		<0.001	<0.001
2/20/2018					<0.001		
2/21/2018	<0.001	<0.001	0.00043 (J)	<0.001		<0.001	<0.001
7/11/2018					<0.001		
7/12/2018	<0.001	<0.001		<0.001		<0.001	<0.001
8/15/2018			<0.001				
9/13/2018	<0.001	<0.001	<0.001		<0.001		<0.001
9/14/2018				<0.001		<0.001	
10/4/2018						<0.001	
9/10/2019					<0.001		
10/2/2019	<0.001	8.1E-05 (X)					
10/3/2019			<0.001	<0.001		4.7E-05 (X)	<0.001
3/25/2020					0.00015 (J)		
3/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
8/26/2020	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/27/2020			<0.001				
10/6/2020		<0.001			4.7E-05 (J)		
10/7/2020	<0.001		4.2E-05 (J)	4.2E-05 (J)		<0.001	<0.001
3/3/2021				<0.001	5.8E-05 (J)		
3/4/2021	<0.001	<0.001	<0.001			<0.001	4.1E-05 (J)
9/15/2021	<0.001	<0.001			<0.001		
9/16/2021			<0.001	<0.001		<0.001	<0.001
1/26/2022	<0.001	<0.001			<0.001		
1/27/2022			<0.001	<0.001		<0.001	<0.001
8/24/2022						<0.001	
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/14/2023					<0.001		
2/15/2023	<0.001	<0.001	<0.001	<0.001			<0.001
2/16/2023						<0.001	
9/19/2023		<0.001					
9/20/2023	<0.001		<0.001	<0.001	<0.001		<0.001
9/21/2023						<0.001	
2/28/2024	<0.001				<0.001		<0.001
2/29/2024		<0.001	<0.001	<0.001		<0.001	
8/14/2024	<0.001	<0.001	<0.001	<0.001	<0.001		
8/15/2024						<0.001	<0.001
Mean	0.0009525	0.0009541	0.0009236	0.0009521	0.0008628	0.0009069	0.0009521
Std. Dev.	0.0002124	0.0002055	0.0002434	0.0002142	0.0003357	0.0002868	0.0002144
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5E-05	8.1E-05	0.00043	4.2E-05	0.00015	9E-05	4.1E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-7D
8/31/2016	<0.03					<0.03		
9/1/2016		<0.03						0.0022 (J)
9/7/2016			<0.03	<0.05	0.0082 (J)			
9/8/2016							0.0038 (J)	
12/7/2016	0.003 (J)	<0.03				<0.03		0.0023 (J)
12/8/2016			<0.03	<0.05	0.0061 (J)		0.0038 (J)	
3/21/2017	<0.03					<0.03		
3/22/2017		0.0011 (J)	0.0021 (J)	0.0029 (J)			0.0068 (J)	0.0025 (J)
3/23/2017					0.0122 (J)			
7/11/2017	<0.03					<0.03	0.0059 (J)	
7/12/2017		<0.03	0.002 (J)	0.0024 (J)	0.013 (J)			0.0033 (J)
10/18/2017	<0.03	<0.03	0.002 (J)	0.0027 (J)		<0.03	0.0057 (J)	
10/19/2017					0.013 (J)			<0.25
2/20/2018	<0.03					<0.03		
2/21/2018		<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)		0.0063 (J)	0.0034 (J)
7/11/2018	<0.03					<0.03		
7/12/2018		0.0012 (J)			0.013 (J)		0.0063 (J)	0.0038 (J)
8/15/2018				0.0027 (J)				
8/16/2018			0.0027 (J)					
9/12/2018	<0.03							
9/13/2018		0.0013 (J)		0.0029 (J)		<0.03	0.0061 (J)	0.0026 (J)
9/14/2018			0.0025 (J)		0.018 (J)			
9/10/2019						<0.03		
10/2/2019	<0.03	0.0013 (X)	0.0024 (X)				0.0074 (X)	
10/3/2019				0.0027 (X)	0.016 (X)			0.0032 (X)
3/25/2020	<0.03		0.003 (J)			0.0011 (J)	0.0066 (J)	
3/26/2020		0.0014 (J)		0.0027 (J)	0.013 (J)			0.0031 (J)
8/26/2020	<0.03	0.0013 (J)	0.0028 (J)		0.011 (J)	0.0011 (J)	0.0065 (J)	0.0023 (J)
8/27/2020				0.0025 (J)				
10/6/2020	<0.03					0.00097 (J)		
10/7/2020		0.0013 (J)	0.0029 (J)	0.003 (J)	0.013 (J)		0.0063 (J)	0.0023 (J)
3/3/2021	<0.03				0.015 (J)	0.001 (J)	0.0061 (J)	
3/4/2021		0.0014 (J)	0.002 (J)	0.0029 (J)				0.0031 (J)
9/15/2021	<0.03	0.0013 (J)				0.00085 (J)	0.0061 (J)	
9/16/2021			0.0021 (J)	0.0023 (J)	0.013 (J)			0.0025 (J)
1/26/2022	<0.03	0.0013 (J)				<0.03	0.008 (J)	
1/27/2022			0.0022 (J)	0.003 (J)	0.016 (J)			0.0039 (J)
8/24/2022							0.0073 (J)	
8/25/2022	<0.03	0.0012 (J)	0.0018 (J)	0.0033 (J)	0.012 (J)	<0.03		0.003 (J)
2/14/2023	<0.03					<0.03		
2/15/2023		0.001 (J)		0.0027 (J)	0.011 (J)		0.0057 (J)	0.0037 (J)
2/16/2023			0.0014 (J)					
9/19/2023							0.0064 (J)	
9/20/2023	<0.03	0.0014 (J)	0.0012 (J)	0.0028 (J)	0.014 (J)	0.00088 (J)		0.0023 (J)
2/27/2024							0.007 (J)	
2/28/2024		<0.03				<0.03		0.0024 (J)
2/29/2024	<0.03		<0.03	0.0054 (J)	0.012 (J)			
8/13/2024							0.0064 (J)	
8/14/2024	<0.03	<0.03		0.0041 (J)	0.012 (J)	<0.03		
8/15/2024			<0.03					0.0025 (J)
Mean	0.02865	0.01132	0.007765	0.005155	0.0125	0.02129	0.006225	0.00897
Std. Dev.	0.006037	0.01406	0.01142	0.006823	0.002768	0.01364	0.00101	0.02732

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-7D
Upper Lim.	0.03	0.03	0.003	0.0033	0.01407	0.03	0.006798	0.0034
Lower Lim.	0.003	0.0012	0.002	0.0025	0.01093	0.0011	0.005652	0.0024

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.0002						<0.0002		
9/1/2016		<0.0002							
9/6/2016			<0.0002						
9/7/2016				<0.0002	<0.0002	<0.0002			
9/8/2016								<0.0002	
12/7/2016	7E-05 (J)	<0.0002	<0.0002				9E-05 (J)		
12/8/2016				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/21/2017	<0.0002						<0.0002		
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	
3/23/2017						<0.0002			<0.0002
7/11/2017	<0.0002		<0.0002				<0.0002	<0.0002	
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
10/19/2017						<0.0002			<0.0002
2/20/2018	<0.0002						<0.0002		
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)		5.3E-05 (J)	4.3E-05 (J)
7/11/2018	<0.0002						<0.0002		
7/12/2018		<0.0002	<0.0002			<0.0002		<0.0002	<0.0002
8/15/2018					<0.0002				
8/16/2018				<0.0002					
9/12/2018	<0.0002								
9/13/2018		<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	
9/14/2018				<0.0002		<0.0002			4.1E-05 (J)
10/4/2018									<0.0002
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)	0.00017 (J)	<0.0002	0.00011 (J)
8/27/2020					<0.0002				
10/6/2020	<0.0002		<0.0002				<0.0002		
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/3/2021	<0.0002					<0.0002	<0.0002	<0.0002	
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002				<0.0002
9/15/2021	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	
9/16/2021				<0.0002	<0.0002	<0.0002			<0.0002
1/26/2022	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	
1/27/2022				<0.0002	<0.0002	<0.0002			<0.0002
8/24/2022									<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/11/2022								<0.0002	
2/14/2023	<0.0002						<0.0002		
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	
2/16/2023				<0.0002					<0.0002
9/19/2023			<0.0002					<0.0002	
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
9/21/2023									<0.0002
2/27/2024								<0.0002	
2/28/2024		<0.0002					<0.0002		
2/29/2024	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
8/13/2024								<0.0002	
8/14/2024	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		
8/15/2024				<0.0002					<0.0002
Mean	0.00019	0.0001943	0.0001927	0.0001937	0.0001921	0.0001858	0.0001922	0.0001918	0.0001774
Std. Dev.	3.218E-05	2.428E-05	3.111E-05	2.687E-05	3.371E-05	4.23E-05	2.647E-05	3.465E-05	5.362E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
Lower Lim.	0.00015	9.7E-05	6.8E-05	8.6E-05	5.7E-05	0.0001	0.00017	5.3E-05	0.00011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/31/2016	
9/1/2016	<0.0002
9/6/2016	
9/7/2016	
9/8/2016	
12/7/2016	6E-05 (J)
12/8/2016	
3/21/2017	
3/22/2017	<0.0002
3/23/2017	
7/11/2017	
7/12/2017	<0.0002
10/18/2017	
10/19/2017	<0.0002
2/20/2018	
2/21/2018	5.3E-05 (J)
7/11/2018	
7/12/2018	<0.0002
8/15/2018	
8/16/2018	
9/12/2018	
9/13/2018	<0.0002
9/14/2018	
10/4/2018	
8/26/2020	<0.0002
8/27/2020	
10/6/2020	
10/7/2020	<0.0002
3/3/2021	
3/4/2021	<0.0002
9/15/2021	
9/16/2021	<0.0002
1/26/2022	
1/27/2022	<0.0002
8/24/2022	
8/25/2022	<0.0002
10/11/2022	
2/14/2023	
2/15/2023	<0.0002
2/16/2023	
9/19/2023	
9/20/2023	<0.0002
9/21/2023	
2/27/2024	
2/28/2024	<0.0002
2/29/2024	
8/13/2024	
8/14/2024	
8/15/2024	<0.0002
Mean	0.0001841
Std. Dev.	4.642E-05
Upper Lim.	0.0002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
Lower Lim.	6E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-19	PZ-23A	PZ-25
8/31/2016	<0.01					<0.01	
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	0.0027 (J)		
9/8/2016							<0.01
12/7/2016	<0.01	<0.01	<0.01			<0.01	
12/8/2016				<0.01	0.0022 (J)		<0.01
3/21/2017	0.0005 (J)					0.0006 (J)	
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)			0.001 (J)
3/23/2017					0.0025 (J)		
7/11/2017	<0.01		<0.01			<0.01	<0.01
7/12/2017		<0.01		<0.01	0.0022 (J)		
10/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
10/19/2017					0.0021 (J)		
2/20/2018	<0.01					<0.01	
2/21/2018		<0.01	<0.01	<0.01	<0.01		<0.01
7/11/2018	<0.01					<0.01	
7/12/2018		<0.01	<0.01		0.0022 (J)		<0.01
8/16/2018				<0.01			
9/12/2018	<0.01						
9/13/2018		<0.01	<0.01			<0.01	<0.01
9/14/2018				<0.01	0.0023 (J)		
9/10/2019						<0.01	
10/2/2019	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2019					0.0024 (X)		
3/25/2020	<0.01			<0.01		0.0011 (J)	<0.01
3/26/2020		<0.01	<0.01		0.0021 (J)		
8/26/2020	<0.01	<0.01	<0.01	<0.01	0.002 (J)	<0.01	<0.01
10/6/2020	<0.01		<0.01			<0.01	
10/7/2020		<0.01		<0.01	0.0019 (J)		<0.01
3/3/2021	<0.01				0.0021 (J)	<0.01	<0.01
3/4/2021		<0.01	<0.01	<0.01			
9/15/2021	<0.01	<0.01	<0.01			<0.01	<0.01
9/16/2021				<0.01	0.0021 (J)		
1/26/2022	<0.01	<0.01	<0.01			<0.01	<0.01
1/27/2022				<0.01	0.0022 (J)		
8/24/2022							<0.01
8/25/2022	<0.01	<0.01	<0.01	<0.01	0.0017 (J)	<0.01	
2/14/2023	<0.01					<0.01	
2/15/2023		<0.01	<0.01		0.0016 (J)		<0.01
2/16/2023				<0.01			
9/19/2023			<0.01				<0.01
9/20/2023	<0.01	<0.01		<0.01	0.0019 (J)	<0.01	
2/27/2024							<0.01
2/28/2024		<0.01				<0.01	
2/29/2024	<0.01		<0.01	<0.01	0.0018 (J)		
8/13/2024							<0.01
8/14/2024	<0.01	<0.01	<0.01		0.0023 (J)	<0.01	
8/15/2024				<0.01			
Mean	0.009525	0.00952	0.00952	0.00952	0.002265	0.009085	0.00955
Std. Dev.	0.002124	0.002147	0.002147	0.002147	0.0006953	0.002817	0.002012
Upper Lim.	0.01	0.01	0.01	0.01	0.0023	0.01	0.01

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-19	PZ-23A	PZ-25
Lower Lim.	0.0005	0.0004	0.0004	0.0004	0.0019	0.0011	0.001

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-19	PZ-23A	PZ-7D
8/31/2016	0.0012 (J)			0.0014 (J)	
9/1/2016		<0.005			<0.005
9/7/2016			<0.01		
12/7/2016	<0.005	<0.005		<0.01	<0.005
12/8/2016			<0.01		
3/21/2017	<0.005			<0.01	
3/22/2017		<0.005			<0.005
3/23/2017			<0.01		
7/11/2017	<0.005			<0.01	
7/12/2017		<0.005	<0.01		<0.005
10/18/2017	<0.005	<0.005		<0.01	
10/19/2017			<0.01		<0.005
2/20/2018	<0.005			<0.01	
2/21/2018		<0.005	<0.01		<0.005
7/11/2018	<0.005			<0.01	
7/12/2018		<0.005	<0.01		<0.005
9/12/2018	<0.005				
9/13/2018		<0.005		<0.01	<0.005
9/14/2018			0.0015 (J)		
9/10/2019				0.0018 (X)	
10/2/2019	0.0015 (X)	<0.005			
10/3/2019			0.0034 (X)		0.0017 (X)
3/25/2020	<0.005			0.003 (J)	
3/26/2020		<0.005	0.0016 (J)		<0.005
8/26/2020	<0.005	0.0018 (J)	0.0031 (J)	0.0026 (J)	0.0018 (J)
10/6/2020	<0.005			0.0027 (J)	
10/7/2020		<0.005	0.0035 (J)		<0.005
3/3/2021	<0.005		0.0033 (J)	0.0025 (J)	
3/4/2021		<0.005			0.0018 (J)
9/15/2021	<0.005	<0.005		0.0024 (J)	
9/16/2021			0.0033 (J)		<0.005
1/26/2022	<0.005	<0.005		0.0023 (J)	
1/27/2022			0.005		0.0018 (J)
8/25/2022	<0.005	<0.005	0.0019 (J)	0.0023 (J)	0.0017 (J)
2/14/2023	<0.005			0.0015 (J)	
2/15/2023		<0.005	0.0036 (J)		0.0017 (J)
9/20/2023	<0.005	<0.005	0.0024 (J)	0.0023 (J)	0.0015 (J)
2/28/2024		<0.005		0.0018 (J)	0.0019 (J)
2/29/2024	<0.005		0.0043 (J)		
8/14/2024	<0.005	<0.005	0.0053	0.0019 (J)	
8/15/2024					0.0011 (J)
Mean	0.004635	0.00484	0.00561	0.004925	0.0035
Std. Dev.	0.001124	0.0007155	0.003437	0.00384	0.001708
Upper Lim.	0.005	0.005	0.003674	0.01	0.005
Lower Lim.	0.0015	0.0018	0.002316	0.0019	0.0017

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.001						<0.001		
9/1/2016		<0.001							
9/6/2016			<0.001						
9/7/2016				<0.001	<0.001	<0.001			
9/8/2016								<0.001	
12/7/2016	<0.001	<0.001	<0.001				0.0002 (J)		
12/8/2016				<0.001	<0.001	0.0003 (J)		<0.001	<0.001
3/21/2017	6E-05 (J)						0.0003 (J)		
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)			<0.001	
3/23/2017						0.0003 (J)			0.0001 (J)
7/11/2017	<0.001		0.0002 (J)				0.0002 (J)	<0.001	
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)			0.0001 (J)
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)		0.0001 (J)	<0.001	
10/19/2017						0.0005 (J)			0.0001 (J)
2/20/2018	<0.001						0.00026 (J)		
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)		<0.001	<0.001
7/11/2018	<0.001						0.00018 (J)		
7/12/2018		<0.001	<0.001			0.00077 (J)		<0.001	<0.001
8/15/2018					<0.001				
8/16/2018				<0.001					
9/12/2018	<0.001								
9/13/2018		<0.001	0.00017 (J)		<0.001		<0.001	<0.001	
9/14/2018				<0.001		0.00076 (J)			<0.001
10/4/2018									<0.001
9/10/2019							<0.001		
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)				0.00024 (X)	
10/3/2019					<0.001	0.00071 (X)			0.00018 (X)
3/25/2020	<0.001			0.0002 (J)			0.00015 (J)	0.00037 (J)	
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)			0.00015 (J)
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)	0.00016 (J)	0.00037 (J)	<0.001
8/27/2020					<0.001				
10/6/2020	<0.001		<0.001				<0.001		
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)		0.00027 (J)	<0.001
3/3/2021	<0.001					0.00072 (J)	0.00017 (J)	0.00036 (J)	
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001				<0.001
9/15/2021	<0.001	0.0002 (J)	<0.001				<0.001	0.00066 (J)	
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)			<0.001
1/26/2022	<0.001	<0.001	<0.001				<0.001	0.00039 (J)	
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)			<0.001
8/24/2022								0.00048 (J)	<0.001
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)	<0.001		
2/14/2023	<0.001						<0.001		
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)		0.00045 (J)	
2/16/2023				0.00038 (J)					<0.001
9/19/2023			<0.001					0.00061 (J)	
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)	<0.001		
9/21/2023									<0.001
2/27/2024								0.00065 (J)	
2/28/2024		<0.001					<0.001		
2/29/2024	<0.001		<0.001	<0.001	<0.001	0.0005 (J)			<0.001
8/13/2024								0.0008 (J)	
8/14/2024	<0.001	<0.001	<0.001		<0.001	0.00045 (J)	<0.001		

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-23A	PZ-25	PZ-33
8/15/2024				<0.001					<0.001
Mean	0.000953	0.0007605	0.0007502	0.0006465	0.0008581	0.0005595	0.000636	0.0006825	0.0007815
Std. Dev.	0.0002102	0.0003761	0.0003927	0.0003677	0.0003467	0.0001404	0.0004147	0.0002967	0.0003887
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0006392	0.001	0.001	0.001
Lower Lim.	6E-05	0.00022	0.0002	0.00025	7.1E-05	0.0004798	0.00018	0.00037	0.00018

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/31/2016	
9/1/2016	<0.001
9/6/2016	
9/7/2016	
9/8/2016	
12/7/2016	<0.001
12/8/2016	
3/21/2017	
3/22/2017	0.0002 (J)
3/23/2017	
7/11/2017	
7/12/2017	0.0001 (J)
10/18/2017	
10/19/2017	0.0001 (J)
2/20/2018	
2/21/2018	<0.001
7/11/2018	
7/12/2018	<0.001
8/15/2018	
8/16/2018	
9/12/2018	
9/13/2018	<0.001
9/14/2018	
10/4/2018	
9/10/2019	
10/2/2019	
10/3/2019	7.8E-05 (X)
3/25/2020	
3/26/2020	8.5E-05 (J)
8/26/2020	<0.001
8/27/2020	
10/6/2020	
10/7/2020	<0.001
3/3/2021	
3/4/2021	<0.001
9/15/2021	
9/16/2021	<0.001
1/26/2022	
1/27/2022	<0.001
8/24/2022	
8/25/2022	<0.001
2/14/2023	
2/15/2023	<0.001
2/16/2023	
9/19/2023	
9/20/2023	<0.001
9/21/2023	
2/27/2024	
2/28/2024	<0.001
2/29/2024	
8/13/2024	
8/14/2024	

Confidence Interval

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Constituent: Thallium (mg/L) Analysis Run 2/7/2025 11:37 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
8/15/2024	<0.001
Mean	0.0007782
Std. Dev.	0.0003949
Upper Lim.	0.001
Lower Lim.	0.0002

WSP

