2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company – Plant Mitchell

Ash Ponds A, 1, and 2
Putney, Georgia
Project No.: 6122160170

Prepared for:

Georgia Power

Atlanta, Georgia

2/28/2023

wsp

CERTIFICATION STATEMENT

This *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Mitchell - Ash Ponds A, 1, and 2, Putney, Georgia* has been prepared in compliance with Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 under the supervision of a licensed professional engineer and a licensed professional geologist with WSP USA Environment & Infrastructure Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4, and 40 CFR Part 258.50(g).

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SUMMARY

This summary of the *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program from July through December 2022 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 Environment & Infrastructure, 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 6[1] of the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Mitchell Ash Ponds A, 1, and 2

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. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements of the CCR rule. 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.

The second 2022 semi-annual groundwater monitoring event was conducted in August 2022 and the Site remains in assessment monitoring. The samples collected during the routine semi-annual monitoring event were analyzed for the full suite of Appendix III[2] and the full suite of Appendix IV[3] constituents. Three wells were re-sampled for total dissolved solids and one well for mercury because of hold time exceedances in the laboratory. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule,

[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*
[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*

groundwater results for August 2022 (including the October 2022 re-sampling results) 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 2022 sampling event.

Appendix III Constituents	August 2022
Boron	PZ-7D, PZ-15, PZ-16, PZ-18, PZ-19, PZ-25, PZ-33
Calcium	PZ-18, PZ-19, PZ-23A
Chloride	PZ-14, PZ-15, PZ-16, PZ-18, PZ-19
Fluoride	None
pH	PZ-14, 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
TDS	PZ-7D, PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for August 2022, 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.

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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

1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this *2022 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 2022 in accordance with Georgia GA EPD Rule 391-3-4-.10(6)(c) and includes the semi-annual assessment monitoring event conducted in August 2022.

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. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements of the CCR rule. 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 2022. The Site remains in Assessment monitoring.

1.2 Regional Geology & 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, 2021) 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, 2021), 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 2022.**

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 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 2: Summary of Piezometer Construction**).

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by 257.90(e), the following describes monitoring-related activities performed from July through December 2022. The groundwater sampling was performed in August 2022 for assessment monitoring in accordance with § 257.93. Samples were collected from each of the monitoring wells listed in **Table 3: Groundwater Sampling Events**.

2.1 Monitoring Well Installation and 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 2022, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A: Well Inspections and Repairs**. 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 and October 2022 events and are summarized in the well repair memo in **Appendix A.**

- Sediment was encountered in the water column and in the bottom of water-level measurement piezometer MW-102. On August 26, 2022, the piezometer was re-developed by surging and pumping to remove the sediment. The re-development data is in **Appendix A**.

2.2 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 2022. 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 2022 monitoring event (including the October 2022 re-sampling) are included in **Appendix B: Laboratory Analytical and Field Sampling Reports.**

3.0 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 2022 monitoring event are summarized in **Table 4: 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 2022).** The August 2022 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 2022 monitoring event is consistent with conditions observed during previous monitoring events.

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,

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

Where:

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

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

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

$n_e =$ *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 5: Groundwater Flow Velocity Calculations** summarize the groundwater flow velocities. Results for groundwater flow velocities ranged from 0.010 to 0.025 feet/day (3.65 to 9.13

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 2022 monitoring event in accordance with § 257.93(a). Monitoring wells PZ-2D, PZ-25, and PZ-32 were re-sampled on October 11, 2022 for total dissolved solids (TDS) and well PZ-25 was also re-sampled for mercury. The re-sampling was conducted because the laboratory analyzed the initial four samples outside of the analytical method holding time. 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. A SmarTroll or 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 ± 0.1 Standard Units (s.u.).
- Specific conductance ± 5 percent.
- DO ±10 percent or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO> 0.5 mg/L. If DO< 0.5mg/L no stabilization criteria apply
- Turbidity measurements less than 5 Nephelometric Turbidity Units, 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 the monitoring events are provided in **Appendix B.**

3.4 Laboratory Analyses

The full suites of Appendix III and IV constituents were analyzed during the August 2022 semi-annual event. Analytical methods used for groundwater sample analyses are listed on the analytical laboratory reports included in **Appendix B**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners, Georgia, and Greensburg, Pennsylvania. Both 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 the monitoring events are presented in **Appendix B**.

3.5 Groundwater Analytical Results

Table 6: Analytical Data Summary Appendix III – August 2022, summarizes the analytical data for the Appendix III constituents for the semi-annual monitoring events. The complete laboratory and field data sheets are included in **Appendix B**. Time series data for the Appendix III constituents are provided in **Appendix C: Statistical Analyses**.

Table 7: Analytical Data Summary Appendix IV – August 2022 summarizes the analytical data for the Appendix IV constituents for the August 2022 semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix B**. Time series data for the Appendix IV constituents are provided in **Appendix C**.

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 B**.

The analytical results provided in **Tables 6 and 7** provide concentrations from the most recent sampling events 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 relative percent difference for the parent and duplicate sample data (PZ-1D/FD-01 and PZ-18/FD-02) for anions and metals data was less than 20 percent indicating good sampling precision. Radium was not detected in either sample duplicate pair (PZ-1D/FD-01 and PZ-18/FD-02), therefore, precision could not be assessed.

Laboratory quality issues were identified with a few of the samples analyzed for TDS and mercury. The TDS samples from wells PZ-2D, PZ-25, and PZ-32 and the field blank sample, collected on August 24, 2022, were analyzed beyond the seven-day TDS analytical method holding time. The mercury sample from well PZ-25 was analyzed beyond the mercury analytical method 28-day holding time. Therefore, on October 11, 2022, wells PZ-2D, PZ-25,

and PZ-32 were re-sampled for TDS analysis. Well PZ-25 was also re-sampled for mercury analysis. A field duplicate, equipment blank, and field blank were also collected during the re-sampling event. The October 11, 2022 results replaced the August 24, 2022 results for these four samples. The relative percent difference for the parent and duplicate sample data (PZ-25/FD-01) for TDS data was less than 20 percent indicating good sampling precision. Mercury was not detected in either sample duplicate pair (PZ-25/FD-01), therefore, precision could not be assessed.

Samples PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-23A, and FD-02, collected on August 25, 2022, required a five times dilution for boron to bring the concentration into the calibration range or to minimize matrix affects from the presence of elevated levels of non-target analytes or other matrix interference. The diluted concentrations were similar to past detected concentrations in these wells. The PZ-14 boron sample had a non-detect result with the five times dilution and was re-analyzed at a one times dilution.

The data are considered usable for meeting project objectives and the results are considered valid.

4.0 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 2022 semi-annual assessment monitoring event and October 2022 re-sampling 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 and October 2022. 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 8: 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 2022 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 August 2022 monitoring event and October 2022 re-sampling 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 8.** 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, chromium, and radium. When data contained greater than 50 percent nondetects 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).

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, GA EPD has incorporated the updated 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:

- 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 specified GWPS

Following the above rule requirements, GWPSs were established for statistical comparison of Appendix IV constituents for the August 2022 sampling event. **Table 9: 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 C**.

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 C: Statistical Analyses**. Based on review of the full Appendix III statistical analysis discussion presented in **Appendix C**, groundwater conditions have not returned to background concentrations and assessment monitoring should continue to be conducted.

4.3 Statistical Analyses Results - Appendix IV

Appendix C: Statistical Analyses 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/October 2022 sampling event.

5.0 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 2022 semi-annual event. No SSIs of the Appendix III constituents were detected in the October 2022 re-sampling event. No SSLs were identified for the Appendix IV constituents during the August/October 2022 event. Pursuant to § 257.95, Georgia Power will continue assessment monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

6.0 CONCLUSIONS & FUTURE ACTIONS

This *2022 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 Georgia Environmental Protection Division (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 February 2023. 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 CONSTRUCTION DATA

Georgia Power Company - Plant Mitchell

Ash Ponds A, 1, and 2

Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
PZ-1D	6/11/2014	526353.9	2307362.8	193.44	196.44	125.8	115.8	78.0	Bedrock	Upgradient
PZ-2D	6/10/2014	526067.3	2308155.4	175.64	178.51	108.0	98.0	78.0	Bedrock	Upgradient
PZ-31	10/13/2016	526996.3	2306857.6	180.32	182.96	133.3	123.3	57.0	Bedrock	Upgradient
PZ-32	10/13/2016	526078.7	2307723.7	178.19	180.75	126.2	116.2	62.0	Bedrock	Upgradient
PZ-7D	6/3/2014	521425.1	2305995.3	170.28	173.08	123.7	113.7	57.0	Bedrock	Downgradient
PZ-14	7/25/2016	521473.1	2306804.8	180.85	183.46	140.9	130.9	50.0	Bedrock	Downgradient
PZ-15	7/23/2016	521600.2	2305357.3	167.38	170.37	97.4	87.4	80.0	Bedrock	Downgradient
PZ-16	7/25/2016	522125.0	2305359.9	171.21	173.92	131.2	121.2	50.0	Bedrock	Downgradient
PZ-17	7/22/2016	522587.9	2305886.7	170.12	172.91	120.1	110.1	60.0	Bedrock	Downgradient
PZ-18	7/23/2016	523145.7	2306142.3	167.34	170.11	117.3	107.3	60.0	Bedrock	Downgradient
PZ-19	7/13/2016	523582.1	2306153.6	169.40	172.05	120.4	110.4	60.0	Bedrock	Downgradient
PZ-23A[4]	3/10/2020	523831.5	2307743.4	189.06	191.85	134.6	124.6	64.5	Bedrock	Downgradient
PZ-25	7/20/2016	524492.6	2306152.0	168.24	171.14	118.2	108.2	60.0	Bedrock	Downgradient
PZ-33	10/2/2016	522212.6	2307233.9	187.08	189.61	126.7	116.7	70.4	Bedrock	Downgradient
PZ-57[5]	11/4/2021	522849.9	2306107.5	166.54	169.35	107.0	97.0	70.0	Bedrock	Downgradient

Notes:

(1) Coordinates are from June 15, 2020 re-survey of the wells by McKim & Creed, Inc. based on 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. Elevations are from June 15, 2020 re-survey of the wells by McKim & Creed, Inc.

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

(4) Monitoring well PZ-23 was abandoned on September 10, 2019 and was replaced with new monitoring well PZ-23A on March 10, 2020.

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

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

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	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
PZ-01R	2/10/2016	524398.0[4]	2306492.9[4]	188.2[4]	191.87[4]	132.2	122.2	66.7	Overburden (Clay)/Bedrock
PZ-1S	6/11/2014	526357.1	2307356.7	193.43	196.52	145.8	135.8	58.0	Overburden (Clay)
PZ-02R	2/3/2016	522696.6[4]	2306666.5[4]	188.5[4]	191.66[4]	131.6	121.6	67.2	Overburden (Clay)/Bedrock
PZ-2S	6/10/2014	526066.7	2308163.4	175.63	178.61	131.6	121.6	54.4	Overburden (Sandy Clay)
PZ-3D	5/28/2014	525373.2	2307918.1	188.08	190.98	110.5	100.5	88.0	Bedrock
PZ-3S	5/28/2014	525365.6	2307918.8	188.14	191.12	138.5	128.5	60.0	Overburden (Sand)
PZ-4D	5/29/2014	524198.2	2308009.5	188.25	191.10	142.7	132.7	56.0	Bedrock
PZ-4S	5/29/2014	524192.1	2308005.0	188.42	191.20	163.8	153.8	35.0	Overburden (Sand/Clay)
PZ-6S	6/13/2014	522254.0	2307207.5	186.52	189.47	148.9	138.9	48.0	Overburden (Clay)
PZ-7S	6/3/2014	521424.4	2306002.8	170.10	173.10	146.5	136.5	34.0	Overburden (Clay)
PZ-8D	6/5/2014	521442.1	2305207.9	167.24	170.35	100.6	90.6	77.0	Bedrock
PZ-8S	6/5/2014	521440.2	2305217.4	167.67	170.78	142.9	132.9	35.2	Overburden (Sand)
PZ-9D	6/4/2014	521770.9	2305127.5	163.18	166.16	126.6	116.6	47.0	Bedrock
PZ-9S	6/5/2014	521763.7	2305125.7	163.06	166.02	145.5	135.5	28.0	Overburden (Sand)/Bedrock
PZ-10S	6/3/2014	522465.8	2305401.6	172.64	175.63	137.0	127.0	46.0	Bedrock
PZ-11S[6]	6/12/2014	523112.9	2305532.1	188.71	191.69	141.1	131.1	58.0	Bedrock
PZ-12S	6/4/2014	523794.9	2305676.8	170.93	173.92	133.3	123.3	48.0	Bedrock
PZ-13S	6/6/2014	524467.0	2305810.0	170.23	173.22	132.6	122.6	48.0	Overburden (Clay)
PZ-20	7/14/2016	524025.0	2306152.6	170.62	173.44	121.1	111.1	60.0	Bedrock
PZ-21	7/29/2016	524639.5	2306932.0	177.08	179.84	117.1	107.1	70.0	Bedrock
PZ-22	7/28/2016	524622.4	2307749.0	184.76	187.69	134.8	124.8	60.0	Bedrock
PZ-24A	3/6/2020	523151.8	2307445.9	192.25	194.97	142.3	132.3	60.0	Bedrock
PZ-27	10/4/2016	522440.4	2305235.1	161.88	164.58	123.6	113.6	48.3	Bedrock
PZ-28	10/13/2016	522953.9	2305347.3	163.49	165.96	126.5	116.5	47.0	Bedrock
PZ-29	10/4/2016	523857.8	2305593.0	170.42	173.18	123.9	113.9	56.5	Bedrock

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

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	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
MW-101	2/14/1995	524507.6	2306160.1	168.14	170.93	154.8	145.3	23.4	Overburden (Sand and Clay)
MW-102	2/22/1995	524508.2	2306153.6	168.10	170.93	132.3	122.8	45.9	Bedrock
MW-108[7]	2/21/1995	521561.7	2306874.5	182.75	185.47	145.1	136.0	47.4	Bedrock
MW-111	2/23/1995	521618.2	2305308.8	165.28	168.06	127.8	118.8	47.0	Bedrock
MW-113	2/21/1995	522357.4	2305578.4	171.88	174.61	129.6	120.1	52.4	Bedrock
MW-115[5]	2/21/1995	522837.4	2306080.2	166.23	169.05	89.0	79.5	87.3	Bedrock
MW-116	2/23/1995	523649.9	2306082.5	168.93	171.69	100.7	94.3	75.2	Bedrock
MW-120	2/24/1995	525216.0	2307100.9	191.03	193.79	152.8	143.3	48.3	Overburden (Clay)/Bedrock

Notes:
(1) Coordinates are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc. based on 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. Elevations are from June 15, 2020 re-survey of the piezometers by McKim & Creed, Inc.
(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey.
(4) Coordinates and elevations for piezometers PZ-01R and PZ-02R are from E&CS Civil Field Services March 2, 2016.
PZ-01R and PZ-02R were not re-surveyed in June 2020 as the piezometers were not accessible due to construction activities.
(5) Piezometer MW-115 was abandoned on November 3, 2021.
(6) Piezometer PZ-11S was abandoned on March 28, 2022.
(7) Piezometer MW-108 was abandoned on March 29, 2022.

TABLE 3
GROUNDWATER SAMPLING EVENTS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		August 24-26, 2022	October 11, 2022	
Purpose of Sampling Event		Assessment	Re-sample	
ASH PONDS DETECTION MONITORING WELL NETWORK				
PZ-1D	Upgradient	X		Assessment Monitoring
PZ-2D	Upgradient	X	X	Assessment Monitoring
PZ-31	Upgradient	X		Assessment Monitoring
PZ-32	Upgradient	X	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	X	Assessment Monitoring
PZ-33	Downgradient	X		Assessment Monitoring
PZ-57	Downgradient	X		Assessment Monitoring

Notes:
1. X - indicates well sampled during event
2. Monitoring well PZ-23 was abandoned on September 10, 2019 and was replaced with new monitoring well PZ-23A on March 10, 2020.
3. New monitoring well PZ-57 construction was completed on November 4, 2021.
4. Wells PZ-2D, PZ-25, and PZ-32 were re-sampled on October 11, 2022 for Total Dissolved Solids.
5. Well PZ-25 was re-sampled for mercury on October 11, 2022.
6. October 11, 2022 sampling was for re-samples for TDS and mercury due to the laboratory analyzed the samples outside of the TDS and mercury analytical method holding times.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well ID	Screened Matrix	Top of Casing Elevation (feet NAVD88)[1] (June 2020 Re-survey)	Depth to Water (feet below TOC)[2]	Groundwater Elevation (feet NAVD88)[3]
Measurement Date			8/23/2022	8/23/2022
MW-101	Overburden (Sand and Clay)	170.93	23.16	147.77
MW-102	Bedrock	170.93	32.70	138.23
MW-108	Overburden (Sand/Clay)/ Bedrock	185.47	Abandoned[8]	
MW-111	Bedrock	168.06	30.36	137.70
MW-113	Bedrock	174.61	36.97	137.64
MW-115	Bedrock	169.05	Abandoned[5]	
MW-116	Bedrock	171.69	34.09	137.60
MW-120	Overburden (Clay)/Bedrock	193.79	Dry	
PZ-1D	Bedrock	196.44	55.16	141.28
PZ-01R	Bedrock and Clay	191.87[4]	54.09	137.78
PZ-1S	Overburden (Clay)	196.52	41.54	154.98
PZ-2D	Bedrock	178.51	38.62	139.89
PZ-02R	Bedrock	191.66[4]	54.12	137.54
PZ-2S	Overburden (Clay)	178.61	38.69	139.92
PZ-3D	Bedrock	190.98	51.40	139.58
PZ-3S	Overburden (Sand)	191.12	49.15	141.97
PZ-4D	Bedrock	191.10	52.11	138.99
PZ-4S	Overburden (Sand/Clay)	191.20	30.75	160.45
PZ-6S	Overburden (Clay)	189.47	26.88	162.59
PZ-7D	Bedrock	173.08	35.95	137.13
PZ-7S	Overburden (Clay)	173.10	34.87	138.23
PZ-8D	Bedrock	170.35	32.75	137.60
PZ-8S	Overburden (Sand)	170.78	32.59	138.19
PZ-9D	Bedrock	166.16	28.74	137.42
PZ-9S	Overburden (Sand)/Bedrock	166.02	28.68	137.34
PZ-10S	Overburden (Clayey Sand)	175.63	38.35	137.28
PZ-11S	Overburden (Gravelly Sand)	191.69	Abandoned[7]	
PZ-12S	Bedrock	173.92	36.22	137.70
PZ-13S	Overburden (Clay)	173.22	35.06	138.16
PZ-14	Bedrock	183.46	45.87	137.59
PZ-15	Bedrock	170.37	33.60	136.77
PZ-16	Bedrock	173.92	36.63	137.29
PZ-17	Bedrock	172.91	35.56	137.35
PZ-18	Bedrock	170.11	32.68	137.43
PZ-19	Bedrock	172.05	34.47	137.58
PZ-20	Bedrock	173.44	35.79	137.65
PZ-21	Bedrock	179.84	41.31	138.53
PZ-22	Bedrock	187.69	48.88	138.81
PZ-23A	Bedrock	191.85	52.95	138.90
PZ-24A	Bedrock	194.97	56.59	138.38
PZ-25	Bedrock	171.14	32.91	138.23
PZ-27	Bedrock	164.58	27.31	137.27
PZ-28	Bedrock	165.96	28.57	137.39
PZ-29	Bedrock	173.18	35.41	137.77
PZ-31	Bedrock	182.96	41.76	141.20
PZ-32	Bedrock	180.75	40.70	140.05
PZ-33	Bedrock	189.61	51.68	137.93
PZ-57[6]	Bedrock	169.35	32.02	137.33

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 by McKim & Creed, Inc.
(2) TOC - Top of Casing
(3) Groundwater elevations for 2022 are calculated using TOC elevations from the June 15, 2020 re-survey.
(4) Coordinates and elevations for piezometers PZ-01R and PZ-02R are from E&CS Civil Field Services March 2, 2016.
PZ-01R and PZ-02R were not re-surveyed in June 2020 as the piezometers were not accessible due to construction activities.
(5) Piezometer MW-115 was abandoned on November 4, 2021.
(6) Well PZ-57 construction was completed on November 4, 2021 and was surveyed December 10, 2021 by McKim & Creed, Inc.
(7) Piezometer PZ-11S was abandoned on March 28, 2022.
(8) Piezometer PZ-108 was abandoned on March 29, 2022.
Groundwater elevations of wells and piezometers screened in the bedrock were used to generate potentiometric contours on the potentiometric map.

TABLE 5
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwater Elevations in Well Pairs (h_1, h_2) (feet)		Change in Elevation (Δh) (feet)	Distance Between Location 1 and 2 Measured Along Flow Path (L) (feet)	Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
August 2022	Limestone	PZ-1D to PZ-01R	141.28	137.78	3.50	2094	0.002	3.04	0.20	0.025	9.13
August 2022	Limestone	PZ-4D to PZ-19	138.99	137.58	1.41	2056	0.001	3.04	0.20	0.010	3.65

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. Flow paths are illustraged on Figure 3 of this report.
4. Groundwater flow velocity equation: $V = (K * i)/n_e$

TABLE 6
ANALYTICAL DATA SUMMARY APPENDIX III - AUGUST 2022
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
PZ-1D	8/24/2022	0.011 (J)	45.8	2.6	0.080 (J)	7.49	2.2	139
PZ-2D	8/24/2022	0.012 (J)	27.3	2.1	0.088 (J)	8.01	2.0	287
PZ-2D	10/11/2022	NA	NA	NA	NA	7.94	NA	75.0
PZ-7D	8/25/2022	0.20	107	4.1	0.056 (J)	6.98	47.3	325
PZ-14	8/25/2022	0.032 (J)	108	4.6	0.051 (J)	6.93	10.7	259
PZ-15	8/25/2022	0.21	96.7	6.4	0.074 (J)	7.15	75.5	319
PZ-16	8/25/2022	0.24	92.0	6.3	0.058 (J)	7.14	38.7	90.0
PZ-17	8/25/2022	0.19 (J)	99.5	3.9	0.078 (J)	7.05	62.7	321
PZ-18	8/25/2022	0.39	141	4.6	0.052 (J)	6.76	96.3	446
PZ-19	8/25/2022	0.58	156	4.6	0.086 (J)	6.67	84.4	528
PZ-23A	8/25/2022	0.17 (J)	145	3.2	0.074 (J)	6.76	45.6	437
PZ-25	8/24/2022	0.19	87.6	1.8	0.15	7.10	35.7	286
PZ-25	10/11/2022	NA	NA	NA	NA	7.13	NA	267
PZ-31	8/24/2022	< 0.0086	95.2	3.0	0.069 (J)	7.04	0.56 (J)	261
PZ-32	8/24/2022	0.022 (J)	67.1	2.7	0.058 (J)	7.34	1.7	172
PZ-32	10/11/2022	NA	NA	NA	NA	7.37	NA	173
PZ-33	8/24/2022	0.32	96.5	1.8	0.092 (J)	7.10	34.7	265
PZ-57	8/26/2022	0.18	95.5	2.4	0.083 (J)	7.09	87.2	358

Notes:
1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (su).
2. < indicates the constituent was not detected above the analytical method detection limit (MDL).
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit.
   The value followed by (J) is qualified by the laboratory as estimated.
4. TDS indicates total dissolved solids.
5. NA indicates constituent was not analyzed.
6. October 11, 2022 data are re-sample results for TDS due to the laboratory analyzed the samples outside of the TDS analytical method holding time.

TABLE 7
ANALYTICAL DATA SUMMARY APPENDIX IV - AUGUST 2022
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium	Selenium	Thallium
PZ-1D	8/24/2022	< 0.00078	< 0.0022	0.015	< 0.000054	< 0.00011	0.0025 (J)	< 0.00039	0.080 (J)	< 0.00089	< 0.00073	< 0.00013	0.00088 (J)	0.196 U	< 0.0014	< 0.00018
PZ-2D	8/24/2022	0.0011 (J)	< 0.0022	0.010	< 0.000054	< 0.00011	0.0066	< 0.00039	0.088 (J)	< 0.00089	0.0012 (J)	0.00013 (J)	< 0.00074	0.0268 U	< 0.0014	< 0.00018
PZ-7D	8/25/2022	< 0.00078	< 0.0022	0.0058	< 0.000054	< 0.00011	0.0024 (J)	< 0.00039	0.056 (J)	< 0.00089	0.0030 (J)	< 0.00013	< 0.00074	0.771 U	0.0017 (J)	< 0.00018
PZ-14	8/25/2022	< 0.00078	< 0.0022	0.011	< 0.000054	< 0.00011	0.0014 (J)	< 0.00039	0.051 (J)	< 0.00089	< 0.00073	< 0.00013	< 0.00074	0.453 U	< 0.0014	< 0.00018
PZ-15	8/25/2022	< 0.00078	< 0.0022	0.057	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.074 (J)	< 0.00089	0.0012 (J)	< 0.00013	< 0.00074	1.05	< 0.0014	< 0.00018
PZ-16	8/25/2022	< 0.00078	< 0.0022	0.035	< 0.000054	< 0.00011	0.0012 (J)	< 0.00039	0.058 (J)	< 0.00089	< 0.00073	< 0.00013	< 0.00074	0.728 U	< 0.0014	< 0.00018
PZ-17	8/25/2022	< 0.00078	< 0.0022	0.061	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.078 (J)	< 0.00089	0.0018 (J)	< 0.00013	< 0.00074	0.980 U	< 0.0014	0.00037 (J)
PZ-18	8/25/2022	< 0.00078	< 0.0022	0.026	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.052 (J)	< 0.00089	0.0033 (J)	< 0.00013	< 0.00074	0.0434 U	< 0.0014	< 0.00018
PZ-19	8/25/2022	< 0.00078	< 0.0022	0.046	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.086 (J)	< 0.00089	0.012 (J)	< 0.00013	0.0017 (J)	0.937	0.0019 (J)	0.00053 (J)
PZ-23A	8/25/2022	< 0.00078	< 0.0022	0.036	< 0.000054	< 0.00011	0.0022 (J)	< 0.00039	0.074 (J)	< 0.00089	< 0.00073	< 0.00013	< 0.00074	0.396 U	0.0023 (J)	< 0.00018
PZ-25	8/24/2022	< 0.00078	< 0.0022	0.10	< 0.000054	< 0.00011	< 0.0011	0.0016 (J)	0.15	< 0.00089	0.0073 (J)	0.00018 (J)	< 0.00074	0.764 U	< 0.0014	0.00048 (J)
PZ-25	10/11/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00013	NA	NA	NA	NA
PZ-31	8/24/2022	< 0.00078	< 0.0022	0.0063	< 0.000054	< 0.00011	0.0015 (J)	< 0.00039	0.069 (J)	< 0.00089	< 0.00073	< 0.00013	< 0.00074	0.781 U	< 0.0014	< 0.00018
PZ-32	8/24/2022	0.0010 (J)	< 0.0022	0.019	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.058 (J)	< 0.00089	< 0.00073	0.00014 (J)	< 0.00074	0.342 U	< 0.0014	< 0.00018
PZ-33	8/24/2022	0.00082 (J)	< 0.0022	0.038	< 0.000054	< 0.00011	< 0.0011	< 0.00039	0.092 (J)	< 0.00089	< 0.00073	< 0.00013	< 0.00074	0.764 U	< 0.0014	< 0.00018
PZ-57	8/26/2022	< 0.00078	< 0.0022	0.064	< 0.000054	< 0.00011	< 0.0011	0.0012 (J)	0.083 (J)	< 0.00089	0.0013 (J)	< 0.00013	< 0.00074	0.488 U	< 0.0014	< 0.00018

Notes:
1. Results for metals are reported in milligrams per liter (mg/L).
2. < indicates the constituent was not detected above the analytical method detection limit.
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit. Therefore, the value displayed (J) is qualified by the laboratory as an estimated number.
4. Radium units are in picocuries per liter (pCi/L)
5. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. NA indicates constituent was not analyzed.
7. October 11, 2022 data are re-sample results for mercury due to the laboratory analyzed the sample outside of the mercury analytical method holding time.

TABLE 8
STATISTICAL METHOD SUMMARY
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, 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. Nonparametric 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 Resample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.
	Optional	▪ Initial statistical exceedance warrants optional independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. If no resample is collected, the original result is deemed verified.

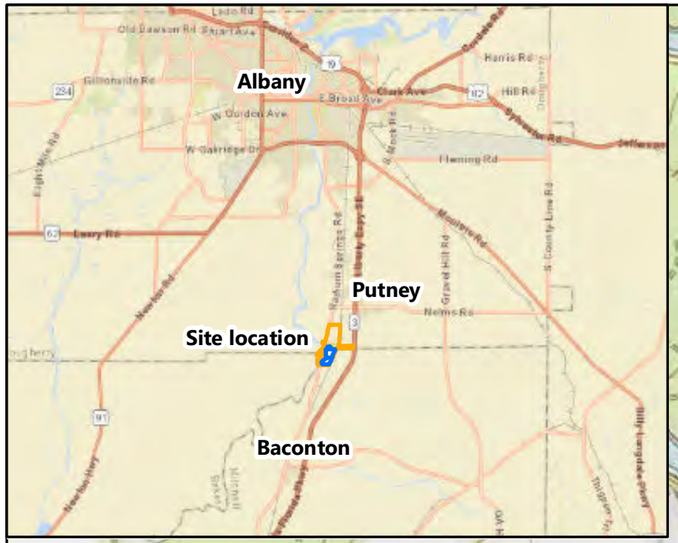
TABLE 9
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Constituent	Units	MCL	Federal CCR Rule Specified Limit [1]	Site-Specific Background August 2022	GWPS [4] August 2022
Antimony	mg/L	0.006		0.0035	0.006
Arsenic	mg/L	0.01		0.005	0.01
Barium	mg/L	2.0		0.048	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		0.01	0.1
Cobalt [2]	mg/L		0.006	0.005	0.006
Combined Radium	pCi/L	5.0		1.66	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
(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) Currently, there is no MCL established for lead. The value listed is the established US EPA Action Level for drinking water.
(4) Effective on February 22, 2022 the Georgia EPD has incorporated the updated 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



N

Roadside Park

Blue Hole Spring

Goat Island

Gaging Station

Powerplant

River Bend

Mt Calvary Ch

DOUGHERTY CO
MITCHELL CO

DOUGHERTY CO
BAKER CO

MITCHELL CO

BLUE SPRINGS

STAGECOACH

ROAD

BR 190

BR 17

Creek

Dry

BM

Legend

- Ponds 1 and 2
- Approximate Property Boundary
- Pond A

0 1,500 3,000 Feet

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

Georgia Power Company - Plant Mitchell
Putney, Georgia

2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

Site Location Map

Prepared By-Date: JRM - 2/1/2023	
Checked By-Date: JMQ - 2/1/2023	
Project Number: 6122160170	

wsp

Figure: 1

N

PZ-31

PZ-1D

PZ-32

PZ-2D

ASH POND A

PZ-25

ASH POND 1

PZ-23A

PZ-19

PZ-18

PZ-57

PZ-17

PZ-33

PZ-16

ASH POND 2

PZ-15

PZ-7D

PZ-14

0 600 1,200 Feet

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
Putney, Georgia

2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

Monitoring Network Well Location Map

Prepared By-Date: JRM - 2/1/2023	
Checked By-Date: JMQ - 2/1/2023	
Project Number: 6122160170	

wsp

Figure: 2

Notes:
1. Piezometers screened in the Overburden were not used to generate potentiometric contours.

2. August 2022 groundwater elevations calculated using top of well casing elevations from the June 2020 re-surveying except for PZ-01R and PZ-02R which were not re-surveyed in June 2020 because construction prevented access to the wells.

N

PZ-31 141.20
PZ-1S 154.98
PZ-1D 141.28
PZ-32 140.05
PZ-2D 139.89
PZ-2S 139.92
PZ-3S 141.97
PZ-3D 139.58
MW-120 Dry
ASH POND A
PZ-25 138.23
MW-102 138.23
PZ-21 138.53
PZ-22 138.81
PZ-13S 138.16
MW-101 147.77
PZ-01R 137.78
PZ-4S 160.45
PZ-4D 138.99
PZ-29 137.77
PZ-20 137.65
PZ-12S 137.70
MW-116 137.60
PZ-19 137.58
ASH POND 1
PZ-23A 138.90
PZ-24A 138.38
PZ-11S Abandoned
PZ-18 137.43
PZ-28 137.39
PZ-57 137.33
PZ-10S 137.28
PZ-17 137.35
PZ-02R 137.54
PZ-27 137.27
MW-113 137.64
ASH POND 2
PZ-6S 162.59
PZ-33 137.93
PZ-16 137.29
PZ-9S 137.34
MW-111 137.70
PZ-9D 137.42
MW-108 Abandoned
PZ-7S 138.23
PZ-8S 138.19
PZ-15 136.77
PZ-14 137.59
PZ-8D 137.60
PZ-7D 137.13
141
140
139
138
137

Legend

- 141.28 Groundwater Elevation (ft NAVD88)
- Groundwater Elevation Well (Piezometer)
- Detection Monitoring Well in CCR Monitoring Network
- Piezometer Screened in the Overburden
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Approximate Ash Pond A Location

0 600 1,200 Feet

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

Georgia Power Company - Plant Mitchell
Putney, Georgia

2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

Potentiometric Surface Map
Upper Bedrock - August 2022

Prepared By-Date: THP - 2/1/2023	Figure: 3
Checked By-Date: RRQ - 2/1/2023	
Project Number: 6122160170	

APPENDIX A

WELL INSPECTIONS AND REPAIRS

APPENDIX A

WELL REPAIRS

MEMORANDUM

Date: November 18, 2022

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) (formerly Wood Environment & Infrastructure Solutions, Inc.) 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	October 2022	MW-103, MW-111, MW-120, PZ-1D, PZ-1S, PZ-3D, PZ-3S, PZ-4D, PZ-4S, PZ-7D, PZ-22, PZ-25, PZ-28, PZ-31, PZ-33	Weeds and grass had grown up around the wells and piezometers. The site was mowed in October 2022 to remove the weeds and grass.
Mitchell Ash Ponds A, 1, & 2	August 26, 2022	MW-102	Well was re-developed to remove suspended sediment from piezometer.
Mitchell Ash Ponds A, 1, & 2	October 2022	MW-8D, MW-8S, MW-9D, MW-9S, MW-10S	Poor access to piezometers due to heavy vegetation. The site was mowed in October 2022.
Mitchell Ash Ponds A, 1, & 2	August 23, 2022	PZ-16	Removed ant mound from around well pad. Replaced well lock.
Mitchell Ash Ponds A, 1, & 2	August 23, 2022	PZ-19	Removed wasp nest from well cover.
Mitchell Ash Ponds A, 1, & 2	August 23, 2022	PZ-22	Removed ant mound from around well pad.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2		PZ-42	Soil loss around PZ-42 due to elevated riverbank scour.
Mitchell Ash Ponds A, 1, & 2		PZ-51	Concrete pad is loose. Repair will be completed.
Mitchell Ash Ponds A, 1, & 2		MW-113	Well pad is deteriorating. Repair will be completed.

Well Redevelopment

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Well ID: MW-102
Field Sampling Personnel: EVER GUILLEN

Depth to Screen below MP: 39 of screen (Top) 49 of screen (Bottom)

Pump Intake at (ft. below MP): 47.0
Purging Device (Pump Type): MONSOON
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 49.24
Depth To Water (Ft.) 31.49
Water Column (Ft.) 17.75
Well Volume (gal) 9.02

Date	Time (24 hr)	Depth to Water Below MP (ft)	Purge Rate (mL/min)	pH (pH units)	Spec Cond. (mS/cm)	Turbidity (NTUs)	DO Flow cell (mg/L)	Temp. (°C)	Redox Potential (mV)	Cum. Volume Purged (gallons)	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
8-26-22	1025	31.49	1000	6.92	502.37	>1000	0.74	23.77	-141.3	0.25	—	—	
	1029	32.17		6.99	515.52	>1000	1.13	23.57	-117.4	1.0	—	—	BLACK SEDIMENT &
	1033	33.61		7.02	519.35	>1000	1.01	23.34	-80.5	2.0	—	—	WATER COLOR
	1037	33.72		6.95	513.13	>1000	0.36	24.03	-88.5	3.0	—	—	
	1041	33.48		6.97	517.59	>1000	0.58	23.93	-79.3	4.0	—	—	
	1045	33.39		7.07	520.15	>1000	1.91	24.16	-79.7	5.0	—	—	
	1049	33.52		6.96	523.88	>1000	1.26	24.24	-84.0	6.0	—	—	
	1057	33.41		6.97	519.50	>1000	0.56	24.45	-77.6	8.0	—	—	
	1105	33.63		6.95	504.28	>1000	0.16	23.97	-82.7	10.0	—	—	
	1113	33.38		7.03	505.93	>1000	0.54	23.37	-39.0	12.0	—	—	
	1121	33.47		7.00	521.61	>1000	0.33	23.43	-40.9	14.0	—	—	
	1129	33.58		6.96	512.13	>1000	0.15	23.71	-80.1	16.0	—	—	
	1137	33.32		6.97	520.17	>1000	0.06	23.53	-83.9	18.0	—	—	
	1145	33.66		6.96	511.12	>1000	0.03	22.81	-77.1	20.0	—	—	
	1153	33.42		6.97	509.32	>1000	0.0	22.68	-74.5	22.0	—	—	GRAY-TANISH GRAY
	1201	33.49		7.01	522.70	>1000	1.16	23.03	-60.6	24.0	—	—	GRAYISH TAN
	1209	33.58		7.02	520.13	>1000	1.18	23.23	-53.4	26.0	—	—	>> SANDY SILT SEDIMENT
	1217	33.42	↓	6.98	541.71	>1000	0.07	23.70	-83.5	28.0	—	—	LAST SURGE
	1221	33.49		6.99	513.21	321	0.17	23.31	-40.2	29.0	—	—	NOT SURGED
	1226	33.31	400	7.02	517.16	92.2	0.14	23.38	-38.7	29.5	—	—	WATER CLEAR
	1231	33.07	400	7.00	518.32	26.7	0.11	23.27	-39.1	30.0	—	—	DTB = 49.38
	1236	32.88	400	7.01	519.17	13.2	0.09	23.33	-39.8	30.5	—	—	
	1241	32.61	400	7.00	518.91	8.32	0.07	23.29	-39.3	31.0	—	—	DTW = 31.37 AFTER REINSTALLED TRANSDUCER (13:04)

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<10 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

APPENDIX A

WELL INSPECTIONS

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-101
Date: 8/23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-102
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?	✓		
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Well will be redeveloped on 8/26/22

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-103
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Grass needs cutting

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-111
Date: 8-23-22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible? WELL ACCESS OVERGROWN		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-113
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)? 2'x2' PAD IS DETERIORATING		✓	
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Concrete well pad deteriorating

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-116
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	DH ✗	✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-119
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Small amount of mud in bottom ~~of~~ of well

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: MW-120
Date: 8/22/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting around well

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-1A
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?			✓
b	Is the casing free of degradation or deterioration?			✓
c	Does the casing have a functioning weep hole?			✓
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel R Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-1D
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-01R
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?			✓
b	Is the casing free of degradation or deterioration?			✓
c	Does the casing have a functioning weep hole?			✓
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel R Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-15
Date: 8/22/22

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Daniel R Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-2A
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?			✓
b	Is the casing free of degradation or deterioration?			✓
c	Does the casing have a functioning weep hole?			✓
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-2D
Date:

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-02R
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?			✓
b	Is the casing free of degradation or deterioration?			✓
c	Does the casing have a functioning weep hole?			✓
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			✓
e	Is the well locked and is the lock in good condition?			✓
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?			✓
b	Is the well pad sloped away from the protective casing?			✓
c	Is the well pad in complete contact with the protective casing?			✓
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			✓
e	Is the pad surface clean (not covered with sediment or debris)?			✓
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 8/22/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-3D
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Grass needs cutting around well

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-35
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Grass needs cutting around well. Mud at bottom of well (0.1')

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-4D
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-45
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		✓ OH
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-65
Date: 8/22/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-7D
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
HEAVY VEGETATION GROWTH AROUND THE WELL PAD

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-7s
Date: 8-22-22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-8D
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible? Poor Access		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓	✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-8s
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible? Poor Access		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-9D
Date: 8-23-22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible? Poor Access		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-9s
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible? Poor Access		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-105
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible? Poor Access		✓	
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-125
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-135
Date: 8/23/22

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel L Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-14
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-15
Date: 8-22-22

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-16
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition? REPLACED LOCK	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Ants around wellpad. Replaced lock

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-17
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-18
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-19
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Wasp in well cover. Removed wasp nest 8/23/22

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-20
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-21
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-22
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Ant mound around well pad + grass needs cutting

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-23A
Date: 8-22-22

		Yes	No	n/a
1	Location/Identification			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	Protective Casing			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	Surface pad			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	Internal casing			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-24A
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-25
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?	✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Grass needs cutting

Signature and Seal of PE/PG responsible for inspection
Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-27
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-28
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-29
Date: 8/23/22

		Yes	No	n/a
1	**Location/Identification**			
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2	**Protective Casing**			
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3	**Surface pad**			
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4	**Internal casing**			
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5	**Sampling: Groundwater Wells Only:**			
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-31
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Grass needs cutting

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-32
Date: 8/22/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-33
Date: 8-23-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓		
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Weeds need cutting back

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-42
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		✓	
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured? *	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Area around well is getting washed out from rain water draining to the river. Well is getting harder to access. I think the protective casing and well pad are slowly sinking down around the riser pipe * Hard to open and close protective casing lid.

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-46
Date: 8/23/22

		Yes	No	n/a	
1 Location/Identification					
a	Is the well visible and accessible?	✓			
b	Is the well properly identified with the correct well ID?	✓			
c	Is the well in a high traffic area and does the well require protection from traffic?		✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓			
2 Protective Casing					
a	Is the protective casing free from apparent damage and able to be secured?	✓			
b	Is the casing free of degradation or deterioration?	✓			
c	Does the casing have a functioning weep hole?	✓			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓			
e	Is the well locked and is the lock in good condition?	✓			
3 Surface pad					
a	Is the well pad in good condition (not cracked or broken)?	✓			
b	Is the well pad sloped away from the protective casing?	✓			
c	Is the well pad in complete contact with the protective casing?	✓			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓			
e	Is the pad surface clean (not covered with sediment or debris)?	✓			
4 Internal casing					
a	Does the cap prevent entry of foreign material into the well?	✓			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓			
c	Is the well properly vented for equilibration of air pressure?			✓	Flush mount
d	Is the survey point clearly marked on the inner casing?	✓			
e	Is the depth of the well consistent with the original well log?	✓			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓			
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?			✓	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓	
c	Does the well require redevelopment (low flow, turbid)?			✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓			

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel K Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-50
Date: 8/23/22

		Yes	No	n/a	
1 Location/Identification					
a	Is the well visible and accessible?	✓			
b	Is the well properly identified with the correct well ID?	✓			
c	Is the well in a high traffic area and does the well require protection from traffic?		✓		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓			
2 Protective Casing					
a	Is the protective casing free from apparent damage and able to be secured?	✓			
b	Is the casing free of degradation or deterioration?	✓			
c	Does the casing have a functioning weep hole?	✓			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓			
e	Is the well locked and is the lock in good condition?	✓			
3 Surface pad					
a	Is the well pad in good condition (not cracked or broken)?	✓			
b	Is the well pad sloped away from the protective casing?	✓			
c	Is the well pad in complete contact with the protective casing?	✓			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓			
e	Is the pad surface clean (not covered with sediment or debris)?	✓			
4 Internal casing					
a	Does the cap prevent entry of foreign material into the well?	✓			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓			
c	Is the well properly vented for equilibration of air pressure?			✓	Flushmount
d	Is the survey point clearly marked on the inner casing?	✓			
e	Is the depth of the well consistent with the original well log?	✓			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓			
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?			✓	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓	
c	Does the well require redevelopment (low flow, turbid)?			✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓			

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-51
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		✓	
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?			✓ Flush mount
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:
Concrete pad is loose

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-52
Date: 8/23/22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?			✓ Flush mount
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?			✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?			✓
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Daniel Howard

Groundwater Monitoring Well Integrity Form

Site Name: Plant Mitchell
Permit Number: N/A
Well ID: PZ-57
Date: 8-22-22

		Yes	No	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓		
b	Is the well properly identified with the correct well ID?	✓		
c	Is the well in a high traffic area and does the well require protection from traffic?		✓	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓		
b	Is the casing free of degradation or deterioration?	✓		
c	Does the casing have a functioning weep hole?	✓		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e	Is the well locked and is the lock in good condition?	✓		
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓		
b	Is the well pad sloped away from the protective casing?	✓		
c	Is the well pad in complete contact with the protective casing?	✓		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓		
e	Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c	Is the well properly vented for equilibration of air pressure?	✓		
d	Is the survey point clearly marked on the inner casing?	✓		
e	Is the depth of the well consistent with the original well log?	✓		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓		
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			✓
c	Does the well require redevelopment (low flow, turbid)?		✓	
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Ever Guillen

APPENDIX B

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

Well ID	Sample Date	Purge Volume (liter)	Time Elapsed (secs)	DTW (feet, TOC)	Drawdown (feet)	Temperature (C)	pH (su)	Specific Conductance (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)
PZ-1D	8/24/2022	9.0	2700	56.61	1.54	26.33	7.49	248.17	3.90	2.61	26.9
PZ-2D	8/24/2022	6.0	1800	38.66	0.10	20.64	8.01	163.03	1.51	3.07	79.6
PZ-2D	10/11/2022	9.5	3000	39.87	0.29	20.33	7.94	134.36	0.96	3.94	0.8
PZ-7D	8/25/2022	8.4	2509	34.95	0.03	21.73	6.98	486.05	1.73	0.83	38.2
PZ-14	8/25/2022	9.0	2700	45.61	0.06	22.45	6.93	455.19	0.67	5.58	45.0
PZ-15	8/25/2022	8.0	2400	32.06	0.21	24.48	7.15	517.74	0.41	0.46	-94.2
PZ-16	8/25/2022	5.0	1500	36.30	0	22.43	7.14	492.83	0.92	1.84	104.3
PZ-17	8/25/2022	6.0	1800	35.11	0.08	22.05	7.05	472.92	4.73	0.12	-29.0
PZ-18	8/25/2022	10.0	3000	31.51	0	22.99	6.76	648.77	0.37	0.18	37.1
PZ-19	8/25/2022	5.0	1500	34.07	0.05	22.68	6.67	858.98	0.15	0.37	124.1
PZ-23A	8/25/2022	5.0	1500	53.18	0.31	24.44	6.76	728.37	2.52	2.08	96.3
PZ-25	8/24/2022	5.0	1500	32.93	0.10	24.01	7.10	466.70	1.40	0.57	-71.5
PZ-25	10/11/2022	8.0	2400	34.76	0.44	24.86	7.13	388.97	1.03	0.22	-133.9
PZ-31	8/24/2022	7.0	2100	42.91	1.24	21.20	7.04	437.37	1.03	4.96	42.7
PZ-32	8/24/2022	7.0	2100	40.68	0.04	20.76	7.34	330.19	0.15	1.97	91.3
PZ-32	10/11/2022	7.0	2100	41.79	0.16	21.18	7.37	271.22	0.94	1.48	45.8
PZ-33	8/24/2022	6.0	1800	52.71	1.22	23.52	7.10	463.96	3.07	0.19	35.8
PZ-57	8/26/2022	7.0	2100	31.14	0.32	23.60	7.09	583.06	2.37	0.21	50.3

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 17, 2022

Michelle Barker
WOOD E&I
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 25, 2022 and August 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Revision 1: Issued on 10/17/22 to report the Boron result for sample PZ-14 at a lower dilution.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Greg Wrenn, WOOD E&I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92622406001	**PZ-1D**	Water	08/24/22 11:35	08/25/22 09:40
92622406002	**FD-01**	Water	08/24/22 00:00	08/25/22 09:40
92622406003	**PZ-31**	Water	08/24/22 14:00	08/25/22 09:40
92622406004	**PZ-33**	Water	08/24/22 15:45	08/25/22 09:40
92622406009	**FB-01**	Water	08/24/22 10:00	08/25/22 14:47
92622406010	**PZ-2D**	Water	08/24/22 11:32	08/25/22 14:47
92622406011	**PZ-32**	Water	08/24/22 14:10	08/25/22 14:47
92622406012	**PZ-25**	Water	08/24/22 15:45	08/25/22 14:47
92622406020	**PZ-19**	Water	08/25/22 10:28	08/26/22 10:00
92622406021	**PZ-16**	Water	08/25/22 12:12	08/26/22 10:00
92622406022	**PZ-15**	Water	08/25/22 14:08	08/26/22 10:00
92622406023	**FD-02**	Water	08/25/22 00:00	08/26/22 10:00
92622406013	**PZ-18**	Water	08/25/22 10:35	08/26/22 10:00
92622406014	**PZ-17**	Water	08/25/22 12:10	08/26/22 10:00
92622406015	**PZ-23A**	Water	08/25/22 16:08	08/26/22 10:00
92622406016	**PZ-7D**	Water	08/25/22 14:10	08/26/22 10:00
92622406017	**PZ-14**	Water	08/25/22 16:00	08/26/22 10:00
92622406018	**EB-01**	Water	08/26/22 09:15	08/27/22 11:15
92622406019	**PZ-57**	Water	08/26/22 11:20	08/27/22 11:15

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92622406001	**PZ-1D**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406002	**FD-01**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406003	**PZ-31**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406004	**PZ-33**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406009	**FB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406010	**PZ-2D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92622406011	**PZ-32**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406012	**PZ-25**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406020	**PZ-19**	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406021	**PZ-16**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406022	**PZ-15**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406023	**FD-02**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406013	**PZ-18**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406014	**PZ-17**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406015	**PZ-23A**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

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SAMPLE ANALYTE COUNT

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406016	**PZ-7D**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406017	**PZ-14**	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406018	**EB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92622406019	**PZ-57**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA-Revised Report
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Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406001	**PZ-1D**					
	Performed by	Customer			08/25/22 13:24	
	pH	7.49	Std. Units		08/25/22 13:24	
EPA 6010D	Calcium	45.8	mg/L	1.0	09/08/22 12:42	
EPA 6020B	Barium	0.015	mg/L	0.0050	09/12/22 22:08	
EPA 6020B	Boron	0.011J	mg/L	0.040	09/12/22 22:08	
EPA 6020B	Chromium	0.0025J	mg/L	0.0050	09/12/22 22:08	
EPA 6020B	Molybdenum	0.00088J	mg/L	0.010	09/12/22 22:08	
SM 2540C-2015	Total Dissolved Solids	139	mg/L	25.0	08/30/22 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	09/04/22 02:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	09/04/22 02:06	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	09/04/22 02:06	
92622406002	**FD-01**					
	Performed by	Customer			08/25/22 13:25	
	pH	7.49	Std. Units		08/25/22 13:25	
EPA 6010D	Calcium	46.4	mg/L	1.0	09/12/22 15:40	M1
EPA 6020B	Barium	0.013	mg/L	0.0050	09/12/22 22:14	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	09/12/22 22:14	
EPA 6020B	Molybdenum	0.00085J	mg/L	0.010	09/12/22 22:14	
SM 2540C-2015	Total Dissolved Solids	142	mg/L	25.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	09/04/22 02:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	09/04/22 02:21	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	09/04/22 02:21	
92622406003	**PZ-31**					
	Performed by	Customer			08/25/22 13:25	
	pH	7.04	Std. Units		08/25/22 13:25	
EPA 6010D	Calcium	95.2	mg/L	1.0	09/12/22 16:00	
EPA 6020B	Barium	0.0063	mg/L	0.0050	09/12/22 22:20	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/12/22 22:20	
SM 2540C-2015	Total Dissolved Solids	261	mg/L	25.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	09/04/22 02:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	09/04/22 02:36	
EPA 300.0 Rev 2.1 1993	Sulfate	0.56J	mg/L	1.0	09/04/22 02:36	
92622406004	**PZ-33**					
	Performed by	Customer			08/25/22 13:25	
	pH	7.10	Std. Units		08/25/22 13:25	
EPA 6010D	Calcium	96.5	mg/L	1.0	09/12/22 16:04	
EPA 6020B	Antimony	0.00082J	mg/L	0.0030	09/12/22 22:43	
EPA 6020B	Barium	0.038	mg/L	0.0050	09/12/22 22:43	
EPA 6020B	Boron	0.32	mg/L	0.040	09/12/22 22:43	
SM 2540C-2015	Total Dissolved Solids	265	mg/L	25.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/04/22 02:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	09/04/22 02:51	
EPA 300.0 Rev 2.1 1993	Sulfate	34.7	mg/L	1.0	09/04/22 02:51	
92622406010	**PZ-2D**					
	Performed by	Customer			08/26/22 09:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406010	**PZ-2D**					
	pH	8.01	Std. Units		08/26/22 09:35	
EPA 6010D	Calcium	27.3	mg/L	1.0	09/22/22 20:27	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	09/22/22 16:33	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/22/22 16:33	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/22/22 16:33	
EPA 6020B	Chromium	0.0066	mg/L	0.0050	09/22/22 16:33	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/22/22 16:33	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	09/21/22 14:03	
SM 2540C-2015	Total Dissolved Solids	287	mg/L	25.0	09/07/22 14:10	H1
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	09/04/22 04:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	09/04/22 04:21	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	09/04/22 04:21	
92622406011	**PZ-32**					
	Performed by	Customer			08/26/22 09:35	
	pH	7.34	Std. Units		08/26/22 09:35	
EPA 6010D	Calcium	67.1	mg/L	1.0	09/22/22 18:13	M1
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	09/22/22 16:57	
EPA 6020B	Barium	0.019	mg/L	0.0050	09/22/22 16:57	
EPA 6020B	Boron	0.022J	mg/L	0.040	09/22/22 16:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/21/22 14:05	
SM 2540C-2015	Total Dissolved Solids	172	mg/L	25.0	09/07/22 14:10	H1
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	09/07/22 15:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	09/07/22 15:22	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	09/07/22 15:22	
92622406012	**PZ-25**					
	Performed by	Customer			08/26/22 09:36	
	pH	7.10	Std. Units		08/26/22 09:36	
EPA 6010D	Calcium	87.6	mg/L	1.0	09/22/22 18:32	
EPA 6020B	Barium	0.10	mg/L	0.0050	09/22/22 17:03	
EPA 6020B	Boron	0.19	mg/L	0.040	09/22/22 17:03	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	09/22/22 17:03	
EPA 6020B	Lithium	0.0073J	mg/L	0.030	09/22/22 17:03	
EPA 6020B	Thallium	0.00048J	mg/L	0.0010	09/22/22 17:03	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	09/22/22 08:43	H1
SM 2540C-2015	Total Dissolved Solids	286	mg/L	25.0	09/07/22 14:10	H1
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/07/22 16:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	09/07/22 16:32	
EPA 300.0 Rev 2.1 1993	Sulfate	35.7	mg/L	1.0	09/07/22 16:32	
92622406020	**PZ-19**					
	Performed by	Customer			08/26/22 17:04	
	pH	6.67	Std. Units		08/26/22 17:04	
EPA 6010D	Calcium	156	mg/L	1.0	09/12/22 16:34	
EPA 6020B	Barium	0.046	mg/L	0.0050	09/12/22 22:49	
EPA 6020B	Boron	0.58	mg/L	0.040	09/12/22 22:49	
EPA 6020B	Lithium	0.012J	mg/L	0.030	09/12/22 22:49	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	09/12/22 22:49	

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA-Revised Report
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Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406020	**PZ-19**					
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	09/12/22 22:49	
EPA 6020B	Thallium	0.00053J	mg/L	0.0010	09/12/22 22:49	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	50.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/07/22 20:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	09/07/22 20:16	
EPA 300.0 Rev 2.1 1993	Sulfate	84.4	mg/L	1.0	09/07/22 20:16	
92622406021	**PZ-16**					
	Performed by	Customer			08/26/22 17:04	
	pH	7.14	Std. Units		08/26/22 17:04	
EPA 6010D	Calcium	92.0	mg/L	1.0	09/12/22 16:39	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/12/22 23:07	
EPA 6020B	Boron	0.24	mg/L	0.20	09/15/22 13:37	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	09/12/22 23:07	
SM 2540C-2015	Total Dissolved Solids	90.0	mg/L	25.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/07/22 20:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	09/07/22 20:30	
EPA 300.0 Rev 2.1 1993	Sulfate	38.7	mg/L	1.0	09/07/22 20:30	
92622406022	**PZ-15**					
	Performed by	Customer			08/26/22 17:04	
	pH	7.15	Std. Units		08/26/22 17:04	
EPA 6010D	Calcium	96.7	mg/L	1.0	09/12/22 16:44	
EPA 6020B	Barium	0.057	mg/L	0.0050	09/12/22 23:13	
EPA 6020B	Boron	0.21	mg/L	0.20	09/15/22 13:43	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/12/22 23:13	
SM 2540C-2015	Total Dissolved Solids	319	mg/L	25.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	09/07/22 20:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/07/22 20:44	
EPA 300.0 Rev 2.1 1993	Sulfate	75.5	mg/L	1.0	09/07/22 20:44	
92622406023	**FD-02**					
	Performed by	Customer			08/26/22 17:04	
	pH	6.76	Std. Units		08/26/22 17:04	
EPA 6010D	Calcium	147	mg/L	1.0	09/12/22 16:49	
EPA 6020B	Barium	0.025	mg/L	0.0050	09/12/22 23:19	
EPA 6020B	Boron	0.38	mg/L	0.20	09/15/22 13:49	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	09/12/22 23:19	
SM 2540C-2015	Total Dissolved Solids	432	mg/L	50.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/07/22 20:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.10	09/07/22 20:58	
EPA 300.0 Rev 2.1 1993	Sulfate	95.6	mg/L	1.0	09/07/22 20:58	
92622406013	**PZ-18**					
	Performed by	Customer			08/26/22 17:05	
	pH	6.76	Std. Units		08/26/22 17:05	
EPA 6010D	Calcium	141	mg/L	1.0	09/12/22 16:53	
EPA 6020B	Barium	0.026	mg/L	0.0050	09/12/22 23:25	
EPA 6020B	Boron	0.39	mg/L	0.20	09/15/22 13:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406013	**PZ-18**					
EPA 6020B	Lithium	0.0033J	mg/L	0.030	09/12/22 23:25	
SM 2540C-2015	Total Dissolved Solids	446	mg/L	50.0	08/30/22 15:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/07/22 21:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	09/07/22 21:12	
EPA 300.0 Rev 2.1 1993	Sulfate	96.3	mg/L	1.0	09/07/22 21:12	
92622406014	**PZ-17**					
	Performed by	Customer			08/26/22 17:05	
	pH	7.05	Std. Units		08/26/22 17:05	
EPA 6010D	Calcium	99.5	mg/L	1.0	09/12/22 16:58	
EPA 6020B	Barium	0.061	mg/L	0.0050	09/12/22 23:31	
EPA 6020B	Boron	0.19J	mg/L	0.20	09/15/22 14:01	D3
EPA 6020B	Lithium	0.0018J	mg/L	0.030	09/12/22 23:31	
EPA 6020B	Thallium	0.00037J	mg/L	0.0010	09/12/22 23:31	
SM 2540C-2015	Total Dissolved Solids	321	mg/L	25.0	08/30/22 15:43	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	09/07/22 21:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	09/07/22 21:26	
EPA 300.0 Rev 2.1 1993	Sulfate	62.7	mg/L	1.0	09/07/22 21:26	
92622406015	**PZ-23A**					
	Performed by	Customer			08/26/22 17:05	
	pH	6.76	Std. Units		08/26/22 17:05	
EPA 6010D	Calcium	145	mg/L	1.0	09/12/22 17:03	
EPA 6020B	Barium	0.036	mg/L	0.0050	09/12/22 23:37	
EPA 6020B	Boron	0.17J	mg/L	0.20	09/15/22 14:07	D3
EPA 6020B	Chromium	0.0022J	mg/L	0.0050	09/12/22 23:37	
EPA 6020B	Selenium	0.0023J	mg/L	0.0050	09/12/22 23:37	
SM 2540C-2015	Total Dissolved Solids	437	mg/L	25.0	08/30/22 15:43	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	09/07/22 22:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/07/22 22:08	
EPA 300.0 Rev 2.1 1993	Sulfate	45.6	mg/L	1.0	09/07/22 22:08	
92622406016	**PZ-7D**					
	Performed by	Customer			08/26/22 17:05	
	pH	6.98	Std. Units		08/26/22 17:05	
EPA 6010D	Calcium	107	mg/L	1.0	09/12/22 17:08	
EPA 6020B	Barium	0.0058	mg/L	0.0050	09/12/22 23:43	
EPA 6020B	Boron	0.20	mg/L	0.20	09/15/22 14:13	
EPA 6020B	Chromium	0.0024J	mg/L	0.0050	09/12/22 23:43	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	09/12/22 23:43	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	09/12/22 23:43	
SM 2540C-2015	Total Dissolved Solids	325	mg/L	25.0	08/30/22 15:43	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	09/07/22 22:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	09/07/22 22:50	
EPA 300.0 Rev 2.1 1993	Sulfate	47.3	mg/L	1.0	09/07/22 22:50	
92622406017	**PZ-14**					
	Performed by	Customer			08/26/22 17:05	
	pH	6.93	Std. Units		08/26/22 17:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA-Revised Report
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Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406017	**PZ-14**					
EPA 6010D	Calcium	108	mg/L	1.0	09/12/22 17:12	
EPA 6020B	Barium	0.011	mg/L	0.0050	09/12/22 23:49	
EPA 6020B	Boron	0.032J	mg/L	0.040	10/11/22 13:07	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	09/12/22 23:49	
SM 2540C-2015	Total Dissolved Solids	259	mg/L	25.0	08/30/22 15:47	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/07/22 23:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	09/07/22 23:32	
EPA 300.0 Rev 2.1 1993	Sulfate	10.7	mg/L	1.0	09/07/22 23:32	
92622406018	**EB-01**					
EPA 6020B	Boron	0.0091J	mg/L	0.040	09/13/22 18:45	
92622406019	**PZ-57**					
	Performed by	Customer			08/29/22 11:09	
	pH	7.09	Std. Units		08/29/22 11:09	
EPA 6010D	Calcium	95.5	mg/L	1.0	09/12/22 18:15	
EPA 6020B	Barium	0.064	mg/L	0.0050	09/13/22 18:51	
EPA 6020B	Boron	0.18	mg/L	0.040	09/13/22 18:51	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	09/13/22 18:51	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/13/22 18:51	
SM 2540C-2015	Total Dissolved Solids	358	mg/L	25.0	08/31/22 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/08/22 00:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	09/08/22 00:00	
EPA 300.0 Rev 2.1 1993	Sulfate	87.2	mg/L	1.0	09/08/22 00:00	

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-1D **Lab ID: 92622406001** Collected: 08/24/22 11:35 Received: 08/25/22 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/25/22 13:24		
pH	**7.49**	Std. Units			1		08/25/22 13:24		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**45.8**	mg/L	1.0	0.12	1	09/07/22 11:21	09/08/22 12:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 22:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 22:08	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 22:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 22:08	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/12/22 10:47	09/12/22 22:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 22:08	7440-43-9	
Chromium	**0.0025J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 22:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 22:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 22:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 22:08	7439-93-2	
Molybdenum	**0.00088J**	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 22:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 22:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 22:08	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	09/12/22 15:30	09/13/22 08:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**139**	mg/L	25.0	10.0	1		08/30/22 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		09/04/22 02:06	16887-00-6	
Fluoride	**0.080J**	mg/L	0.10	0.050	1		09/04/22 02:06	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		09/04/22 02:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: FD-01 **Lab ID: 92622406002** Collected: 08/24/22 00:00 Received: 08/25/22 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/25/22 13:25		
pH	**7.49**	Std. Units			1		08/25/22 13:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**46.4**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 15:40	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	0.00078	1	09/12/22 10:47	09/12/22 22:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 22:14	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 22:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 22:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/12/22 10:47	09/12/22 22:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 22:14	7440-43-9	
Chromium	**0.0023J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 22:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 22:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 22:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 22:14	7439-93-2	
Molybdenum	**0.00085J**	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 22:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 22:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 22:14	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	09/12/22 15:30	09/13/22 08:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**142**	mg/L	25.0	10.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		09/04/22 02:21	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		09/04/22 02:21	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		09/04/22 02:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-31 **Lab ID: 92622406003** Collected: 08/24/22 14:00 Received: 08/25/22 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/25/22 13:25		
pH	**7.04**	Std. Units			1		08/25/22 13:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**95.2**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:00	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 22:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 22:20	7440-38-2	
Barium	**0.0063**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 22:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 22:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/12/22 10:47	09/12/22 22:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 22:20	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 22:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 22:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 22:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 22:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 22:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 22:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 22:20	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	09/12/22 15:30	09/13/22 09:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**261**	mg/L	25.0	10.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		09/04/22 02:36	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		09/04/22 02:36	16984-48-8	
Sulfate	**0.56J**	mg/L	1.0	0.50	1		09/04/22 02:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-33 **Lab ID: 92622406004** Collected: 08/24/22 15:45 Received: 08/25/22 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/25/22 13:25		
pH	**7.10**	Std. Units			1		08/25/22 13:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**96.5**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:04	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00082J**	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 22:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 22:43	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 22:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 22:43	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.0086	1	09/12/22 10:47	09/12/22 22:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 22:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 22:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 22:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 22:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 22:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 22:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 22:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 22:43	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	09/12/22 15:30	09/13/22 09:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**265**	mg/L	25.0	10.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/04/22 02:51	16887-00-6	
Fluoride	**0.092J**	mg/L	0.10	0.050	1		09/04/22 02:51	16984-48-8	
Sulfate	**34.7**	mg/L	1.0	0.50	1		09/04/22 02:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: FB-01 **Lab ID: 92622406009** Collected: 08/24/22 10:00 Received: 08/25/22 14:47 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	09/21/22 17:50	09/22/22 18:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 16:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 16:27	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 16:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 16:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 16:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 16:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 16:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 16:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 16:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 16:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 16:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 16:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 16:27	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	09/21/22 09:00	09/21/22 14:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/07/22 14:10		H1
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		09/04/22 04:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/04/22 04:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/04/22 04:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-2D **Lab ID: 92622406010** Collected: 08/24/22 11:32 Received: 08/25/22 14:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 09:35		
pH	**8.01**	Std. Units			1		08/26/22 09:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**27.3**	mg/L	1.0	0.12	1	09/21/22 17:50	09/22/22 20:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0011J**	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 16:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 16:33	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 16:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 16:33	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 16:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 16:33	7440-43-9	
Chromium	**0.0066**	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 16:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 16:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 16:33	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 16:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 16:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 16:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 14:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**287**	mg/L	25.0	10.0	1		09/07/22 14:10		H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		09/04/22 04:21	16887-00-6	
Fluoride	**0.088J**	mg/L	0.10	0.050	1		09/04/22 04:21	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	0.50	1		09/04/22 04:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-32 **Lab ID: 92622406011** Collected: 08/24/22 14:10 Received: 08/25/22 14:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 09:35		
pH	**7.34**	Std. Units			1		08/26/22 09:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**67.1**	mg/L	1.0	0.12	1	09/21/22 17:50	09/22/22 18:13	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0010J**	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 16:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 16:57	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 16:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 16:57	7440-41-7	
Boron	**0.022J**	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 16:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 16:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 16:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 16:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 16:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 16:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 16:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 16:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 16:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00014J**	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 14:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**172**	mg/L	25.0	10.0	1		09/07/22 14:10		H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		09/07/22 15:22	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		09/07/22 15:22	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.50	1		09/07/22 15:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-25 **Lab ID: 92622406012** Collected: 08/24/22 15:45 Received: 08/25/22 14:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 09:36		
pH	**7.10**	Std. Units			1		08/26/22 09:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**87.6**	mg/L	1.0	0.12	1	09/21/22 17:50	09/22/22 18:32	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	0.00078	1	09/21/22 17:50	09/22/22 17:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 17:03	7440-38-2	
Barium	**0.10**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 17:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 17:03	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 17:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 17:03	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 17:03	7439-92-1	
Lithium	**0.0073J**	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 17:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 17:03	7782-49-2	
Thallium	**0.00048J**	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 17:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00018J**	mg/L	0.00020	0.00013	1	09/21/22 11:00	09/22/22 08:43	7439-97-6	H1
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**286**	mg/L	25.0	10.0	1		09/07/22 14:10		H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/07/22 16:32	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/07/22 16:32	16984-48-8	
Sulfate	**35.7**	mg/L	1.0	0.50	1		09/07/22 16:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-19 **Lab ID: 92622406020** Collected: 08/25/22 10:28 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:04		
pH	**6.67**	Std. Units			1		08/26/22 17:04		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**156**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 22:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 22:49	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 22:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 22:49	7440-41-7	
Boron	**0.58**	mg/L	0.040	0.0086	1	09/12/22 10:47	09/12/22 22:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 22:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 22:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 22:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 22:49	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 22:49	7439-93-2	
Molybdenum	**0.0017J**	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 22:49	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 22:49	7782-49-2	
Thallium	**0.00053J**	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 22:49	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	09/12/22 15:30	09/13/22 09:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	50.0	20.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		09/07/22 20:16	16887-00-6	
Fluoride	**0.086J**	mg/L	0.10	0.050	1		09/07/22 20:16	16984-48-8	
Sulfate	**84.4**	mg/L	1.0	0.50	1		09/07/22 20:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-16 **Lab ID: 92622406021** Collected: 08/25/22 12:12 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:04		
pH	**7.14**	Std. Units			1		08/26/22 17:04		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**92.0**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:07	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:07	7440-41-7	
Boron	**0.24**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 13:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:07	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:07	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	09/12/22 15:30	09/13/22 09:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**90.0**	mg/L	25.0	10.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		09/07/22 20:30	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		09/07/22 20:30	16984-48-8	
Sulfate	**38.7**	mg/L	1.0	0.50	1		09/07/22 20:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-15 **Lab ID: 92622406022** Collected: 08/25/22 14:08 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:04		
pH	**7.15**	Std. Units			1		08/26/22 17:04		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**96.7**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:13	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:13	7440-41-7	
Boron	**0.21**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 13:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:13	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:13	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	09/12/22 15:30	09/13/22 09:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**319**	mg/L	25.0	10.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.4**	mg/L	1.0	0.60	1		09/07/22 20:44	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/07/22 20:44	16984-48-8	
Sulfate	**75.5**	mg/L	1.0	0.50	1		09/07/22 20:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: FD-02 **Lab ID: 92622406023** Collected: 08/25/22 00:00 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:04		
pH	**6.76**	Std. Units			1		08/26/22 17:04		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**147**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 16:49	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:19	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:19	7440-41-7	
Boron	**0.38**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 13:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:19	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:19	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	09/12/22 15:30	09/13/22 09:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**432**	mg/L	50.0	20.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		09/07/22 20:58	16887-00-6	
Fluoride	**0.054J**	mg/L	0.10	0.050	1		09/07/22 20:58	16984-48-8	
Sulfate	**95.6**	mg/L	1.0	0.50	1		09/07/22 20:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-18 **Lab ID: 92622406013** Collected: 08/25/22 10:35 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:05		
pH	**6.76**	Std. Units			1		08/26/22 17:05		
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	09/12/22 10:47	09/12/22 16:53	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	0.00078	1	09/12/22 10:47	09/12/22 23:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:25	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:25	7440-41-7	
Boron	**0.39**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 13:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:25	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:25	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	09/12/22 15:30	09/13/22 09:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**446**	mg/L	50.0	20.0	1		08/30/22 15:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		09/07/22 21:12	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		09/07/22 21:12	16984-48-8	
Sulfate	**96.3**	mg/L	1.0	0.50	1		09/07/22 21:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-17 **Lab ID: 92622406014** Collected: 08/25/22 12:10 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:05		
pH	**7.05**	Std. Units			1		08/26/22 17:05		
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	09/12/22 10:47	09/12/22 16:58	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:31	7440-38-2	
Barium	**0.061**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:31	7440-41-7	
Boron	**0.19J**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 14:01	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:31	7439-92-1	
Lithium	**0.0018J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:31	7782-49-2	
Thallium	**0.00037J**	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:31	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	09/12/22 15:30	09/13/22 09:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**321**	mg/L	25.0	10.0	1		08/30/22 15:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		09/07/22 21:26	16887-00-6	
Fluoride	**0.078J**	mg/L	0.10	0.050	1		09/07/22 21:26	16984-48-8	
Sulfate	**62.7**	mg/L	1.0	0.50	1		09/07/22 21:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-23A **Lab ID: 92622406015** Collected: 08/25/22 16:08 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:05		
pH	**6.76**	Std. Units			1		08/26/22 17:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**145**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 17:03	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:37	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:37	7440-41-7	
Boron	**0.17J**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 14:07	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:37	7440-43-9	
Chromium	**0.0022J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:37	7439-98-7	
Selenium	**0.0023J**	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:37	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	09/12/22 15:30	09/13/22 09:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**437**	mg/L	25.0	10.0	1		08/30/22 15:43		
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		09/07/22 22:08	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/07/22 22:08	16984-48-8	
Sulfate	**45.6**	mg/L	1.0	0.50	1		09/07/22 22:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-7D **Lab ID: 92622406016** Collected: 08/25/22 14:10 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:05		
pH	**6.98**	Std. Units			1		08/26/22 17:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**107**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 17:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:43	7440-38-2	
Barium	**0.0058**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:43	7440-41-7	
Boron	**0.20**	mg/L	0.20	0.043	5	09/12/22 10:47	09/15/22 14:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:43	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:43	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:43	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:43	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	09/12/22 15:30	09/13/22 09:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**325**	mg/L	25.0	10.0	1		08/30/22 15:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		09/07/22 22:50	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		09/07/22 22:50	16984-48-8	
Sulfate	**47.3**	mg/L	1.0	0.50	1		09/07/22 22:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-14 **Lab ID: 92622406017** Collected: 08/25/22 16:00 Received: 08/26/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/26/22 17:05		
pH	**6.93**	Std. Units			1		08/26/22 17:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**108**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 17:12	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 10:47	09/12/22 23:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 10:47	09/12/22 23:49	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00067	1	09/12/22 10:47	09/12/22 23:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 10:47	09/12/22 23:49	7440-41-7	
Boron	**0.032J**	mg/L	0.040	0.0086	1	10/10/22 14:48	10/11/22 13:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 10:47	09/12/22 23:49	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	09/12/22 10:47	09/12/22 23:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 10:47	09/12/22 23:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 10:47	09/12/22 23:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 10:47	09/12/22 23:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 10:47	09/12/22 23:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 10:47	09/12/22 23:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 10:47	09/12/22 23:49	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	09/12/22 15:30	09/13/22 09:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**259**	mg/L	25.0	10.0	1		08/30/22 15:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		09/07/22 23:32	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		09/07/22 23:32	16984-48-8	
Sulfate	**10.7**	mg/L	1.0	0.50	1		09/07/22 23:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: EB-01 **Lab ID: 92622406018** Collected: 08/26/22 09:15 Received: 08/27/22 11:15 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	09/12/22 10:47	09/12/22 17:17	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	0.00078	1	09/12/22 18:08	09/13/22 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 18:45	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 18:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 18:45	7440-41-7	
Boron	**0.0091J**	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 18:45	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	09/12/22 15:30	09/13/22 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		08/31/22 12:44		
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		09/07/22 23:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/07/22 23:46	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/07/22 23:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Sample: PZ-57 **Lab ID: 92622406019** Collected: 08/26/22 11:20 Received: 08/27/22 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/29/22 11:09		
pH	**7.09**	Std. Units			1		08/29/22 11:09		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**95.5**	mg/L	1.0	0.12	1	09/12/22 10:47	09/12/22 18:15	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	0.00078	1	09/12/22 18:08	09/13/22 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 18:51	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 18:51	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 18:51	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 18:51	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 18:51	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	09/12/22 15:30	09/13/22 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**358**	mg/L	25.0	10.0	1		08/31/22 12:44		
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		09/08/22 00:00	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		09/08/22 00:00	16984-48-8	
Sulfate	**87.2**	mg/L	1.0	0.50	1		09/08/22 00:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 721529
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406001

METHOD BLANK: 3759360 Matrix: Water
Associated Lab Samples: 92622406001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/07/22 16:39	

LABORATORY CONTROL SAMPLE: 3759361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759362 3759363

Parameter	Units	92623057001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	183000 ug/L	1	1	178	178	-461	-474	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 722653
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406018, 92622406019, 92622406020, 92622406021, 92622406022, 92622406023

METHOD BLANK: 3765178 Matrix: Water
Associated Lab Samples: 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406018, 92622406019, 92622406020, 92622406021, 92622406022, 92622406023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/22 15:31	

LABORATORY CONTROL SAMPLE: 3765179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765180 3765181

Parameter	Units	92622406002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	46.4	1	1	48.9	49.9	249	352	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 724852
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406009, 92622406010, 92622406011, 92622406012

METHOD BLANK: 3776437 Matrix: Water
Associated Lab Samples: 92622406009, 92622406010, 92622406011, 92622406012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/22/22 17:49	

LABORATORY CONTROL SAMPLE: 3776438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776441 3776442

Parameter	Units	92622406011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	67.1	1	1	68.1	69.3	100	212	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 722656
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406020, 92622406021, 92622406022, 92622406023

METHOD BLANK: 3765186 Matrix: Water
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406020, 92622406021, 92622406022, 92622406023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/12/22 21:56	
Arsenic	mg/L	0.0023J	0.0050	0.0022	09/12/22 21:56	
Barium	mg/L	ND	0.0050	0.00067	09/12/22 21:56	
Beryllium	mg/L	ND	0.00050	0.000054	09/12/22 21:56	
Boron	mg/L	ND	0.040	0.0086	09/12/22 21:56	
Cadmium	mg/L	ND	0.00050	0.00011	09/12/22 21:56	
Chromium	mg/L	ND	0.0050	0.0011	09/12/22 21:56	
Cobalt	mg/L	ND	0.0050	0.00039	09/12/22 21:56	
Lead	mg/L	ND	0.0010	0.00089	09/12/22 21:56	
Lithium	mg/L	ND	0.030	0.00073	09/12/22 21:56	
Molybdenum	mg/L	ND	0.010	0.00074	09/12/22 21:56	
Selenium	mg/L	ND	0.0050	0.0014	09/12/22 21:56	
Thallium	mg/L	ND	0.0010	0.00018	09/12/22 21:56	

LABORATORY CONTROL SAMPLE: 3765187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765188 3765189

Parameter	Units	92622406003 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	0.10	0.11	103	109	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765188 3765189

Parameter	Units	92622406003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Barium	mg/L	0.0063	0.1	0.1	0.10	0.11	97	104	75-125	6	20	
Beryllium	mg/L	ND	0.1	0.1	0.094	0.097	94	97	75-125	4	20	
Boron	mg/L	ND	1	1	0.91	0.96	91	95	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	4	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.096	0.097	95	96	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	97	102	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 722711
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406018, 92622406019

METHOD BLANK: 3765581 Matrix: Water
Associated Lab Samples: 92622406018, 92622406019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00086J	0.0030	0.00078	09/13/22 18:33	
Arsenic	mg/L	ND	0.0050	0.0022	09/13/22 18:33	
Barium	mg/L	ND	0.0050	0.00067	09/13/22 18:33	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/22 18:33	
Boron	mg/L	ND	0.040	0.0086	09/13/22 18:33	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/22 18:33	
Chromium	mg/L	ND	0.0050	0.0011	09/13/22 18:33	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/22 18:33	
Lead	mg/L	ND	0.0010	0.00089	09/13/22 18:33	
Lithium	mg/L	ND	0.030	0.00073	09/13/22 18:33	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/22 18:33	
Selenium	mg/L	ND	0.0050	0.0014	09/13/22 18:33	
Thallium	mg/L	ND	0.0010	0.00018	09/13/22 18:33	

LABORATORY CONTROL SAMPLE: 3765582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 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	0.11	111	109	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.064	0.1	0.1	0.17	0.17	108	103	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.18	1	1	1.2	1.2	101	99	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Cobalt	mg/L	0.0012J	0.1	0.1	0.099	0.099	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	0.0013J	0.1	0.1	0.096	0.099	94	97	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 724857
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406009, 92622406010, 92622406011, 92622406012

METHOD BLANK: 3776475 Matrix: Water
Associated Lab Samples: 92622406009, 92622406010, 92622406011, 92622406012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/22 16:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/22/22 16:16	
Barium	mg/L	ND	0.0050	0.00067	09/22/22 16:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/22 16:16	
Boron	mg/L	ND	0.040	0.0086	09/22/22 16:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/22 16:16	
Chromium	mg/L	ND	0.0050	0.0011	09/22/22 16:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/22 16:16	
Lead	mg/L	ND	0.0010	0.00089	09/22/22 16:16	
Lithium	mg/L	ND	0.030	0.00073	09/22/22 16:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/22 16:16	
Selenium	mg/L	ND	0.0050	0.0014	09/22/22 16:16	
Thallium	mg/L	ND	0.0010	0.00018	09/22/22 16:16	

LABORATORY CONTROL SAMPLE: 3776476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.098	98	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	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	92622406010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0011J	0.1	0.1	0.10	0.10	99	104	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	92622406010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.010	0.1	0.1	0.10	0.11	89	96	75-125	6	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	100	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Chromium	mg/L	0.0066	0.1	0.1	0.10	0.10	96	96	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.093	94	92	75-125	2	20	
Lithium	mg/L	0.0012J	0.1	0.1	0.096	0.098	95	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 729120
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406017

METHOD BLANK: 3797015 Matrix: Water
Associated Lab Samples: 92622406017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	10/11/22 12:54	

LABORATORY CONTROL SAMPLE: 3797016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797017 3797018

Parameter	Units	92622406017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.032J	1	1	0.99	1.0	95	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 722636
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406018, 92622406019, 92622406020, 92622406021, 92622406022, 92622406023

METHOD BLANK: 3765117 Matrix: Water
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406018, 92622406019, 92622406020, 92622406021, 92622406022, 92622406023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/13/22 08:43	

LABORATORY CONTROL SAMPLE: 3765118

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765119 3765120

Parameter	Units	92622406001 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	0.0022	0.0023	89	91	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 724415
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406009, 92622406010, 92622406011

METHOD BLANK: 3774316 Matrix: Water
Associated Lab Samples: 92622406009, 92622406010, 92622406011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/21/22 12:52	

LABORATORY CONTROL SAMPLE: 3774317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774318 3774319

Parameter	Units	92623533008 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	0.0026	97	103	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 724420
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406012

METHOD BLANK: 3774337 Matrix: Water
Associated Lab Samples: 92622406012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/21/22 14:35	

LABORATORY CONTROL SAMPLE: 3774338

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: 3774339 3774340

Parameter	Units	92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	91	94	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 720456 | 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: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406020, 92622406021, 92622406022, 92622406023

METHOD BLANK: 3754176 Matrix: Water
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406013, 92622406014, 92622406015, 92622406016, 92622406017, 92622406020, 92622406021, 92622406022, 92622406023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	08/30/22 15:41	

LABORATORY CONTROL SAMPLE: 3754177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3754178

Parameter	Units	92622406001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	146	5	25	

SAMPLE DUPLICATE: 3754179

Parameter	Units	92622406015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	445	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 720606
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92622406018, 92622406019

METHOD BLANK: 3754817 Matrix: Water
Associated Lab Samples: 92622406018, 92622406019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	08/31/22 12:39	

LABORATORY CONTROL SAMPLE: 3754818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3754819

Parameter	Units	92622591001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	78.0	18	25	

SAMPLE DUPLICATE: 3755118

Parameter	Units	92622993001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	51.0	12	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 721840 | 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: 92622406009, 92622406010, 92622406011, 92622406012

METHOD BLANK: 3760948 Matrix: Water
Associated Lab Samples: 92622406009, 92622406010, 92622406011, 92622406012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/07/22 14:10	

LABORATORY CONTROL SAMPLE: 3760949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	380	95	80-120	

SAMPLE DUPLICATE: 3760951

Parameter	Units	92624031002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	218	216	1	10	

SAMPLE DUPLICATE: 3780502

Parameter	Units	92622406009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 721131
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406009, 92622406010

METHOD BLANK: 3757656 Matrix: Water
Associated Lab Samples: 92622406001, 92622406002, 92622406003, 92622406004, 92622406009, 92622406010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/03/22 20:38	
Fluoride	mg/L	ND	0.10	0.050	09/03/22 20:38	
Sulfate	mg/L	ND	1.0	0.50	09/03/22 20:38	

LABORATORY CONTROL SAMPLE: 3757657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757658 3757659

Parameter	Units	92621182011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.82J	50	50	49.4	50.1	97	99	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	2.6	2.6	98	99	90-110	1	10	
Sulfate	mg/L	3.3	50	50	51.4	52.3	96	98	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757660 3757661

Parameter	Units	92621182021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.2	50	50	55.1	55.4	98	98	90-110	0	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.6	97	98	90-110	1	10	
Sulfate	mg/L	0.84J	50	50	48.6	48.9	95	96	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 721658
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92622406011, 92622406012, 92622406013, 92622406014, 92622406015, 92622406020, 92622406021, 92622406022, 92622406023

METHOD BLANK: 3760016 Matrix: Water
Associated Lab Samples: 92622406011, 92622406012, 92622406013, 92622406014, 92622406015, 92622406020, 92622406021, 92622406022, 92622406023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 14:35	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 14:35	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 14:35	

LABORATORY CONTROL SAMPLE: 3760017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760018 3760019

Parameter	Units	92622406011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.7	50	50	55.5	55.2	105	105	90-110	0	10	
Fluoride	mg/L	0.058J	2.5	2.5	2.4	2.4	93	93	90-110	1	10	
Sulfate	mg/L	1.7	50	50	54.3	54.0	105	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760020 3760021

Parameter	Units	92621445013 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	53.0	52.7	106	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	52.8	52.5	106	105	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

QC Batch: 721661
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92622406016, 92622406017, 92622406018, 92622406019

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92622406016, 92622406017, 92622406018, 92622406019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALIFIERS

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92622406001	**PZ-1D**				
92622406002	**FD-01**				
92622406003	**PZ-31**				
92622406004	**PZ-33**				
92622406010	**PZ-2D**				
92622406011	**PZ-32**				
92622406012	**PZ-25**				
92622406020	**PZ-19**				
92622406021	**PZ-16**				
92622406022	**PZ-15**				
92622406023	**FD-02**				
92622406013	**PZ-18**				
92622406014	**PZ-17**				
92622406015	**PZ-23A**				
92622406016	**PZ-7D**				
92622406017	**PZ-14**				
92622406019	**PZ-57**				
92622406001	**PZ-1D**	EPA 3010A	721529	EPA 6010D	721846
92622406002	**FD-01**	EPA 3010A	722653	EPA 6010D	722708
92622406003	**PZ-31**	EPA 3010A	722653	EPA 6010D	722708
92622406004	**PZ-33**	EPA 3010A	722653	EPA 6010D	722708
92622406009	**FB-01**	EPA 3010A	724852	EPA 6010D	724979
92622406010	**PZ-2D**	EPA 3010A	724852	EPA 6010D	724979
92622406011	**PZ-32**	EPA 3010A	724852	EPA 6010D	724979
92622406012	**PZ-25**	EPA 3010A	724852	EPA 6010D	724979
92622406020	**PZ-19**	EPA 3010A	722653	EPA 6010D	722708
92622406021	**PZ-16**	EPA 3010A	722653	EPA 6010D	722708
92622406022	**PZ-15**	EPA 3010A	722653	EPA 6010D	722708
92622406023	**FD-02**	EPA 3010A	722653	EPA 6010D	722708
92622406013	**PZ-18**	EPA 3010A	722653	EPA 6010D	722708
92622406014	**PZ-17**	EPA 3010A	722653	EPA 6010D	722708
92622406015	**PZ-23A**	EPA 3010A	722653	EPA 6010D	722708
92622406016	**PZ-7D**	EPA 3010A	722653	EPA 6010D	722708
92622406017	**PZ-14**	EPA 3010A	722653	EPA 6010D	722708
92622406018	**EB-01**	EPA 3010A	722653	EPA 6010D	722708
92622406019	**PZ-57**	EPA 3010A	722653	EPA 6010D	722708
92622406001	**PZ-1D**	EPA 3005A	722656	EPA 6020B	722744
92622406002	**FD-01**	EPA 3005A	722656	EPA 6020B	722744
92622406003	**PZ-31**	EPA 3005A	722656	EPA 6020B	722744
92622406004	**PZ-33**	EPA 3005A	722656	EPA 6020B	722744
92622406009	**FB-01**	EPA 3005A	724857	EPA 6020B	724980
92622406010	**PZ-2D**	EPA 3005A	724857	EPA 6020B	724980
92622406011	**PZ-32**	EPA 3005A	724857	EPA 6020B	724980
92622406012	**PZ-25**	EPA 3005A	724857	EPA 6020B	724980
92622406020	**PZ-19**	EPA 3005A	722656	EPA 6020B	722744

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92622406021	**PZ-16**	EPA 3005A	722656	EPA 6020B	722744
92622406022	**PZ-15**	EPA 3005A	722656	EPA 6020B	722744
92622406023	**FD-02**	EPA 3005A	722656	EPA 6020B	722744
92622406013	**PZ-18**	EPA 3005A	722656	EPA 6020B	722744
92622406014	**PZ-17**	EPA 3005A	722656	EPA 6020B	722744
92622406015	**PZ-23A**	EPA 3005A	722656	EPA 6020B	722744
92622406016	**PZ-7D**	EPA 3005A	722656	EPA 6020B	722744
92622406017	**PZ-14**	EPA 3005A	722656	EPA 6020B	722744
92622406017	**PZ-14**	EPA 3005A	729120	EPA 6020B	729196
92622406018	**EB-01**	EPA 3005A	722711	EPA 6020B	722836
92622406019	**PZ-57**	EPA 3005A	722711	EPA 6020B	722836
92622406001	**PZ-1D**	EPA 7470A	722636	EPA 7470A	722845
92622406002	**FD-01**	EPA 7470A	722636	EPA 7470A	722845
92622406003	**PZ-31**	EPA 7470A	722636	EPA 7470A	722845
92622406004	**PZ-33**	EPA 7470A	722636	EPA 7470A	722845
92622406009	**FB-01**	EPA 7470A	724415	EPA 7470A	724676
92622406010	**PZ-2D**	EPA 7470A	724415	EPA 7470A	724676
92622406011	**PZ-32**	EPA 7470A	724415	EPA 7470A	724676
92622406012	**PZ-25**	EPA 7470A	724420	EPA 7470A	724771
92622406020	**PZ-19**	EPA 7470A	722636	EPA 7470A	722845
92622406021	**PZ-16**	EPA 7470A	722636	EPA 7470A	722845
92622406022	**PZ-15**	EPA 7470A	722636	EPA 7470A	722845
92622406023	**FD-02**	EPA 7470A	722636	EPA 7470A	722845
92622406013	**PZ-18**	EPA 7470A	722636	EPA 7470A	722845
92622406014	**PZ-17**	EPA 7470A	722636	EPA 7470A	722845
92622406015	**PZ-23A**	EPA 7470A	722636	EPA 7470A	722845
92622406016	**PZ-7D**	EPA 7470A	722636	EPA 7470A	722845
92622406017	**PZ-14**	EPA 7470A	722636	EPA 7470A	722845
92622406018	**EB-01**	EPA 7470A	722636	EPA 7470A	722845
92622406019	**PZ-57**	EPA 7470A	722636	EPA 7470A	722845
92622406001	**PZ-1D**	SM 2540C-2015	720456		
92622406002	**FD-01**	SM 2540C-2015	720456		
92622406003	**PZ-31**	SM 2540C-2015	720456		
92622406004	**PZ-33**	SM 2540C-2015	720456		
92622406009	**FB-01**	SM 2540C-2015	721840		
92622406010	**PZ-2D**	SM 2540C-2015	721840		
92622406011	**PZ-32**	SM 2540C-2015	721840		
92622406012	**PZ-25**	SM 2540C-2015	721840		
92622406020	**PZ-19**	SM 2540C-2015	720456		
92622406021	**PZ-16**	SM 2540C-2015	720456		
92622406022	**PZ-15**	SM 2540C-2015	720456		
92622406023	**FD-02**	SM 2540C-2015	720456		
92622406013	**PZ-18**	SM 2540C-2015	720456		
92622406014	**PZ-17**	SM 2540C-2015	720456		

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell 2022 2nd SA-Revised Report
Pace Project No.: 92622406

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92622406015	**PZ-23A**	SM 2540C-2015	720456		
92622406016	**PZ-7D**	SM 2540C-2015	720456		
92622406017	**PZ-14**	SM 2540C-2015	720456		
92622406018	**EB-01**	SM 2540C-2015	720606		
92622406019	**PZ-57**	SM 2540C-2015	720606		
92622406001	**PZ-1D**	EPA 300.0 Rev 2.1 1993	721131		
92622406002	**FD-01**	EPA 300.0 Rev 2.1 1993	721131		
92622406003	**PZ-31**	EPA 300.0 Rev 2.1 1993	721131		
92622406004	**PZ-33**	EPA 300.0 Rev 2.1 1993	721131		
92622406009	**FB-01**	EPA 300.0 Rev 2.1 1993	721131		
92622406010	**PZ-2D**	EPA 300.0 Rev 2.1 1993	721131		
92622406011	**PZ-32**	EPA 300.0 Rev 2.1 1993	721658		
92622406012	**PZ-25**	EPA 300.0 Rev 2.1 1993	721658		
92622406020	**PZ-19**	EPA 300.0 Rev 2.1 1993	721658		
92622406021	**PZ-16**	EPA 300.0 Rev 2.1 1993	721658		
92622406022	**PZ-15**	EPA 300.0 Rev 2.1 1993	721658		
92622406023	**FD-02**	EPA 300.0 Rev 2.1 1993	721658		
92622406013	**PZ-18**	EPA 300.0 Rev 2.1 1993	721658		
92622406014	**PZ-17**	EPA 300.0 Rev 2.1 1993	721658		
92622406015	**PZ-23A**	EPA 300.0 Rev 2.1 1993	721658		
92622406016	**PZ-7D**	EPA 300.0 Rev 2.1 1993	721661		
92622406017	**PZ-14**	EPA 300.0 Rev 2.1 1993	721661		
92622406018	**EB-01**	EPA 300.0 Rev 2.1 1993	721661		
92622406019	**PZ-57**	EPA 300.0 Rev 2.1 1993	721661		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

WO# : 92622406

92622406

Client Name: GA Power Proje

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 5/25/22 CMF

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: 5.8 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.8

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	
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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO# : 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

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

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 ZN Acetate & NaOH (>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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	BP1N	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)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1 ✓																			2				
2		1	1			1 ✓																			2				
3		1	1			1 ✓																			2				
4		1	1			1 ✓																			2				
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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.

Pace

~~CHAIN-OF-CUSTODY / Analytical Request Document~~

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Quinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole.d'oleo@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170.2202	Pace Profile #:	10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
13	~~PZ-35~~ MIT-PZ-ID-WG-20220824	WT				8/24/22	1135		5	X		X							X	X	X	X		pH=7.49
14	~~PZ-18~~ MIT-APA12-FD-001-WG-20220824	WT				8/24/22	—		5	X		X							X	X	X	X		pH=7.49
15	~~PZ-19~~ MIT-PZ-31-WG-20220824	WT					1400		5	X		X							X	X	X	X		pH=7.04
16	~~PZ-17~~ MIT-PZ-33-WG-20220824	WT				↓	1545		5	X		X							X	X	X	X		pH=7.16
17	~~PZ-16~~	WT																	X	X	X	X		
18	~~PZ-15~~	WT																	X	X	X	X		
19	~~FD-04~~	WT																	X	X	X	X		
20		WT																	X	X		X		
21		WT																			X			
22																								
23																								
24																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/24/22	1800		8/25/22	0940	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guilen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project

WO#: 92622406

PM: NMG **Due Date: 09/09/22**

CLIENT: GA-GA Power

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

8121 3394 4981

Date/Initials Person Examining Contents: 6/24/22 CMP

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

Thermometer: ☑ IR Gun ID: 083

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

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.9 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.9

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

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

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

				Comments/Discrepancy:
Chain of Custody 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? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92622406

Proj PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

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

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 ZN Acetate & NaOH (>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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – ab)	SP2T-250 mL Sterile Plastic (N/A – ab)	BP1N	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)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
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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.

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Quinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole.d'olen@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170.2202	Pace Profile #:	10834

Regulatory Agency: —

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~GB-01~~ MIT-APA12-FB-01-WG-20220824	WT				8/24/22	1010		5	X		X						X	X	X	X		pH = 8.01
2	~~GB-02~~ MIT-PZ-20-WG-20220824	WT					1132		5	X		X						X	X	X	X		pH = 7.34
3	~~GB-03~~ MIT-PZ-32-WG-20220824	WT					1410		5	X		X						X	X	X	X		pH = 7.10
4	~~GB-04~~ MIT-PZ-25-WG-20220824	WT					1545		5	X		X						X	X	X	X		
5	~~PZ-25R~~	WT																X	X	X	X		
6	~~PZ-20~~	WT																X	X	X	X		
7	~~PZ-20~~	WT																X	X	X	X		
8	~~PZ-57~~	WT																X	X	X	X		
9	~~PZ-40~~	WT																X	X	X	X		
10	~~PZ-37~~	WT																X	X	X	X		
11	~~PZ-47~~	WT																X	X	X	X		
12	~~PZ-02~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Daniel Howard / Wood	8/24/22	1800	Charles Hunt	8/25/22	1447

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Grillo

SIGNATURE of SAMPLER: Daniel Howard / [signature] DATE Signed: 8/24/22

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project

WO#: 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

8/21 9394 4744

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☑ Yes ☐ No

8/21 9394 4753

Date/Initials Person Examining Contents: 8/26/22 (JH)

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

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

Thermometer: ☑ IR Gun ID: 214

8/21 9394 5028

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 4.8/5.1/5.4 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.8/5.1/5.4

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	
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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

Project #

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

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 ZN Acetate & NaOH (>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-250 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)	DG9S-40 mL VOA H2SO4 (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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
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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.

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info pacelabs.com/hubfs/pas-standard-terms pdf

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Quinn Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421 3382 Fax:	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole d'oleo@pacelabs.com
Requested Due Date:	Standard	Project #:	6122160170.2202	Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

Requested Analysis Filtered (Y/N)

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	92622406
1	~~[illegible]~~ MIT-PZ-19-WG-20220825	WT				8/25/22	1028		5	X		X							x	x	x	x		pH = 6.67
2	~~[illegible]~~ MIT-PZ-16-WG-20220825	WT				8/25/22	1212		5	X		X							x	x	x	x		pH = 7.14
3	~~[illegible]~~ MIT-PZ-15-WG-20220825	WT				8/25/22	1408		5	X		X							x	x	x	x		pH = 7.15
4	~~PZ-1D~~	WT																	x	x	x	x		
5	PZ-23A	WT																	x	x	x	x		
6	~~PZ-2S~~	WT																	x	x	x	x		
7	~~PZ-2B~~	WT																	x	x	x	x		
8	~~PZ-5?~~	WT																	x	x	x	x		
9	~~PZ-7D~~	WT																	x	x	x	x		
10	~~PZ-5?~~	WT																	x	x	x	x		
11	~~PZ-14~~	WT																	x	x	x	x		
12	~~PZ-32~~	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/25/22	1810	[signature]	8/26/22	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Proj

WO# : 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

8121394 4744

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

8121 4394 4753

Date/Initials Person Examining Contents: 8/26/22 (SH)

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

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

Thermometer:

8121 4394 5028

☑ IR Gun ID: 214 Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 4.8/5.1/5.4 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.8/5.1/5.4

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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

Project

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

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 ZN Acetate & NaOH (>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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
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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.

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	Wood E&I (GA Power)
Address:	1075 Big Shanty Road
	Suite 100, Kennesaw, GA 30144
Email:	daniel.howard2@woodplc.com
Phone:	(770)421-3382 Fax:
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Daniel Howard
Copy To:	Rhonda Quinn, Michelle Barker
Purchase Order #:	
Project Name:	Mitchell 2022 2nd SA
Project #:	612.2160170.7202

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	nicole.doleo@pacelabs.com,
Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~GB-01~~ MIT-APA12-FD082-WG-20220825	WT				8/25/22	—		5	X		X							X	X	X	X		pH=6.76
2	~~PB-01~~ MIT-PZ-18-WG-20220825	WT				8/25/22	1035		5	X		X							X	X	X	X		pH=6.76
3	~~GD-03~~ MIT-PZ-17-WG-20220825	WT				8/25/22	1210		5	X		X							X	X	X	X		pH=7.05
4	~~PZ-18~~	WT																	X	X	X	X		
5	~~PZ-17A~~	WT																	X	X	X	X		
6	~~PZ-16~~	WT																	X	X	X	X		
7	~~PZ-15~~	WT																	X	X	X	X		
8	~~PZ-14~~	WT																	X	X	X	X		
9	~~PZ-13~~	WT																	X	X	X	X		
10	~~PZ-11~~	WT																	X	X	X	X		
11	~~PZ-10~~	WT																	X	X	X	X		
12	~~PZ-12~~	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810	Charles Hinkle	8/26/22	1000	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Daniel Howard / Ever Gaillen		
SIGNATURE of SAMPLER: Daniel Howard	DATE Signed:	8/25/22	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address	1075 Big Shanty Road	Copy To:	Rhonda Quinn / Michelle Becker	Company Name	
Suite 100, Kennesaw, GA 30144				Address:	
Email	daniel.howard2@woodplc.com	Purchase Order #		Pace Quote	
Phone	(770)421-3382 Fax	Project Name	Mitchell 2022 2nd SA	Pace Project Manager:	nicole dcleo@pacelabs.com,
Requested Due Date	Standard	Project #	6122160170.2202	Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
13	~~PZ-33~~ MIT-PZ-23A-WG-20220825	WT				8/25/22	1608		5	X		X							x	x	x	x		pH=6.76
14	~~PZ-10~~ MIT-PZ-7D-WG-20220825	WT				8/25/22	1410		5	X		X							x	x	x	x		pH=6.98
15	~~PZ-15~~ MIT-PZ-14-WG-20220825	WT				8/25/22	1600		5	X		X							x	x	x	x		pH=6.93
16	~~PZ-17~~	WT																	x	x	x	x		
17	~~PZ-16~~	WT																	x	x	x	x		
18	~~PZ-18~~	WT																	x	x	x	x		
19	~~PB-01~~	WT																	x	x	x	x		
20		WT																	x	x		x		
21		WT																			x			
22																								
23																								
24																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/25/22	1810	[signature]	8/26/22	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard / [signature]

DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

8121939 4 5017

Date/Initials Person Examining Contents:

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: 3.6 Correction Factor: Add/Subtract (°C) 0.0

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	
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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92622406

PM: NMG Due Date: 09/09/22

CLIENT: GA-GA Power

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

Project

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

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 ZN Acetate & NaOH (>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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VOA/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)
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BP1N

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

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Page : 1 Of 1

Section A — Required Client Information:

Company:	Wood E&I (GA Power)
Address:	1075 Big Shanty Road
	Suite 100, Kennesaw, GA 30144
Email:	daniel.howard2@woodplc.com
Phone:	(770)421-3382 Fax
Requested Due Date	Standard

Section B — Required Project Information:

Report To:	Daniel Howard
Copy To	Rhonda Quinn, Michelle Barker
Purchase Order #:	
Project Name	Mitchell 2022 2nd SA
Project #:	6122160170.2202

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	nicole.d'oleo@pacelabs.com
Pace Profile #:	10834

Regulatory Agency:

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~EB-01~~ MIT-APAN-EB-01-WG-20220826	WT				8/26/22	0915		5	X		X							X	X	X	X	
2	~~PZ-01~~ MIT-PZ-57-~~WG~~DW-20220826	WT				8/26/22	1120		5	X		X							X	X	X	X	pH=7.09
3	~~PZ-03~~	WT																	X	X	X	X	
4	~~PZ-10~~	WT																	X	X	X	X	
5	~~PZ-33A~~	WT																	X	X	X	X	
6	~~PZ-29~~	WT																	X	X	X	X	
7	~~PZ-20~~	WT																	X	X	X	X	
8	~~PZ-67~~	WT																	X	X	X	X	
9	~~PZ-70~~	WT																	X	X	X	X	
10	~~PZ-61~~	WT																	X	X	X	X	
11	~~PZ-14~~	WT																	X	X	X	X	
12	~~PZ-32~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/26/22	1600	Charles Locke	8/27/22	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/26/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page: 1 / Of 1 /

Section B – Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:
Kennesaw, GA 30144		Address:
mel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
(770)421-3382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Due Date: Standard	Project #: 6123160170.2202	Pace Profile #: 10834

Regulatory Agency: —

State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~2:55~~ PZ-1D	~~WT~~ WG				8/24/22	1135		5	X		X						X	X	X	X		pH=7.49
~~2:10~~ FD-01	~~WT~~ WG				8/24/22	—		5	X		X						X	X	X	X		pH=7.49
~~2:15~~ PZ-31	~~WT~~ WG				↓	1400		5	X		X						X	X	X	X		pH=7.04
~~2:17~~ PZ-33	~~WT~~ WG				↓	1545		5	X		X						X	X	X	X		pH=7.10
~~2:18~~	WT																X	X	X	X		
~~2:15~~	WT																X	X	X	X		
~~2:11~~	WT																X	X	X	X		
	WT																X	X		X		
	WT																		X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/24/22	1800				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of 1

Section B — Client Information:
Wood E&I (GA Power)
1075 Big Shanty Road
Kennesaw, GA 30144
daniel.howard2@woodplc.com
(770)421-3382 Fax:
Due Date: Standard

Section B — Required Project Information:
Report To: Daniel Howard
Copy To: Rhonda Quinn, Michelle Barker
Purchase Order #:
Project Name: Mitchell 2022 2nd SA
Project #: 612216017.0.2202

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole.d'oleo@pacelabs.com
Pace Profile #: 10634

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~FB-01~~ PZ-19	WG				8/25/22	1023		5	X		X						X	X	X	X		pH=6.67
~~FB-01~~ PZ-16	WG				8/25/22	1212		5	X		X						X	X	X	X		pH=7.14
~~FB-02~~ PZ-15	WG				8/25/22	1403		5	X		X						X	X	X	X		pH=7.15
~~PZ-1B~~	WT																X	X	X	X		
~~PZ-23A~~	WT																X	X	X	X		
~~PZ-26~~	WT																X	X	X	X		
~~PZ-28~~	WT																X	X	X	X		
~~PZ-67~~	WT																X	X	X	X		
~~PZ-70~~	WT																X	X	X	X		
~~PZ-81~~	WT																X	X	X	X		
~~PZ-14~~	WT																X	X	X	X		
~~PZ-15~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Evar Guillen

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/25/22

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Page : 1 Of 1

Section B Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:	
Kennesaw, GA 30144		Address:	Regulatory Agency
daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:	
(770)421-3382 Fax	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location
Due Date: Standard	Project #: 612216017.0.2202	Pace Profile #: 10834	GA

Requested Analysis Filtered (Y/N)

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~FB-01~~ FB-01	WQ				8/24/22	1000		5	X		X						X	X	X	X		
~~PZ-2D~~ PZ-2D	WG					1132		5	X		X						X	X	X	X		pH = 8.01
~~PZ-32~~ PZ-32	WG					1410		5	X		X						X	X	X	X		pH = 7.34
~~PZ-25~~ PZ-25	WG					1545		5	X		X						X	X	X	X		pH = 7.10
~~PZ-28A~~	WT																X	X	X	X		
~~PZ-25~~	WT																X	X	X	X		
~~PZ-2D~~	WT																X	X	X	X		
~~PZ-5T~~	WT																X	X	X	X		
~~PZ-11~~	WT																X	X	X	X		
~~PZ-31~~	WT																X	X	X	X		
~~PZ-14~~	WT																X	X	X	X		
~~PZ-32~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/24/22	1800				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Evan Guillen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 2 Of 1 1

Section B Required Project Information:		Section C Invoice Information:	
Client Information:			
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:	
Kennesaw, GA 30144		Address:	
daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:	
(770)421-3382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'olea@pacelabs.com	
Due Date: Standard	Project #: 6122160170, 2202	Pace Profile #: 10834	

Regulatory Agency

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample IDs must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~2-09~~ FD-02	WG				8/25/22	—		5	X		X							X	X	X	X		pH = 6.76
~~2-18~~ PZ-18	WG				8/25/22	1035		5	X		X							X	X	X	X		pH = 6.76
~~2-19~~ PZ-17	WG				8/25/22	1210		5	X		X							X	X	X	X		pH = 7.05
~~2-17~~	WT																	X	X	X	X		
~~2-16~~	WT																	X	X	X	X		
~~2-15~~	WT																	X	X	X	X		
~~2-01~~	WT																	X	X	X	X		
	WT																	X	X		X		
	WT																			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER: Daniel Howard / Ever Guillen			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: Daniel Howard	DATE Signed: 8/25/22					

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Page : 1 Of 1

Client Information:	Section B Required Project Information:	Section C Invoice Information:
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:
Kennesaw, GA 30144	Purchase Order #:	Address:
daniel.howard2@woodplc.com	Project Name: Mitchell 2022 2nd SA	Pace Quote:
(770)421-3382 Fax:	Project #: 612216017.2202	Pace Project Manager: nicole.doles@pacelabs.com;
Due Date: Standard		Pace Profile #: 10834

Regulatory Agency: State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample IDs must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	Appr. III/IV Metals	RAD E3: 5/9320	Residual Chlorine (Y/N)	
~~PZ-01~~ PZ-23A	WG				8/25/22	1605		5	X		X							X	X	X	X		pH=6.76
~~PZ-02~~ PZ-7D	WG				8/25/22	1410		5	X		X							X	X	X	X		pH=6.98
~~PZ-03~~ PZ-14	WG				8/25/22	1600		5	X		X							X	X	X	X		pH=6.93
~~PZ-11D~~	WT																	X	X	X	X		
~~PZ-23A~~	WT																	X	X	X	X		
~~PZ-7D~~	WT																	X	X	X	X		
~~PZ-14~~	WT																	X	X	X	X		
~~PZ-07~~	WT																	X	X	X	X		
~~PZ-7D~~	WT																	X	X	X	X		
~~PZ-01~~	WT																	X	X	X	X		
~~PZ-14~~	WT																	X	X	X	X		
~~PZ-02~~	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of 1

Client Information:	Section B Required Project Information:	Section C Invoice Information:
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
1075 Big Shanty Road	Copy To: Rhoady Quina, Michelle Barker	Company Name:
Kennesaw, GA 30144	Purchase Order #:	Address:
daniel.howard2@woodplc.com	Project Name: Mitchell 2022 2nd SA	Pace Quote:
(770)421-3382 Fax:	Project #: 612216070.2202	Pace Project Manager: nicole.d'oleo@pacelabs.com
Due Date: Standard		Pace Profile #: 10834

Regulatory Agency: —

State / Location: GA

SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~B-01~~ EB-01		WQ ~~WT~~				8/26/22	0915		5	X		X							X	X	X	X		
~~B-01~~ PZ-57		WG ~~WT~~				8/26/22	1120		5	X		X							X	X	X	X		pH=7.09
~~B-02~~		WT																	X	X	X	X		
~~PZ-10~~		WT																	X	X	X	X		
~~PZ-11A~~		WT																	X	X	X	X		
~~PZ-12~~		WT																	X	X	X	X		
~~PZ-13~~		WT																	X	X	X	X		
~~PZ-67~~		WT																	X	X	X	X		
~~PZ-70~~		WT																	X	X	X	X		
~~PZ-91~~		WT																	X	X	X	X		
~~PZ-14~~		WT																	X	X	X	X		
~~PZ-92~~		WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/26/22	1600				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Daniel Howard						
SIGNATURE of SAMPLER: Daniel Howard	DATE Signed: 8/26/22					

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 24, 2022

Michelle Barker
WOOD E&I
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 25, 2022 and August 27, 2022. 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

Revision 1: Issued on 10/24/22 to include the Radium QC sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Greg Wrenn, WOOD E&I

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92622406005	**PZ-1D**	Water	08/24/22 11:35	08/25/22 09:40
92622406006	**FD-01**	Water	08/24/22 00:00	08/25/22 09:40
92622406007	**PZ-31**	Water	08/24/22 14:00	08/25/22 09:40
92622406008	**PZ-33**	Water	08/24/22 15:45	08/25/22 09:40
92622414006	**FB-01**	Water	08/24/22 10:00	08/25/22 14:47
92622414007	**PZ-2D**	Water	08/24/22 11:32	08/25/22 14:47
92622414008	**PZ-32**	Water	08/24/22 14:10	08/25/22 14:47
92622414009	**PZ-25**	Water	08/24/22 15:45	08/25/22 14:47
92622414010	**PZ-19**	Water	08/25/22 10:28	08/26/22 10:00
92622414011	**PZ-16**	Water	08/25/22 12:12	08/26/22 10:00
92622414012	**PZ-15**	Water	08/25/22 14:08	08/26/22 10:00
92622414013	**FD-02**	Water	08/25/22 00:00	08/26/22 10:00
92622414014	**PZ-18**	Water	08/25/22 10:35	08/26/22 10:00
92622414015	**PZ-17**	Water	08/25/22 12:10	08/26/22 10:00
92622414016	**PZ-23A**	Water	08/25/22 16:08	08/26/22 10:00
92622414017	**PZ-7D**	Water	08/25/22 14:10	08/26/22 10:00
92622414018	**PZ-14**	Water	08/25/22 16:00	08/26/22 10:00
92622414019	**EB-01**	Water	08/26/22 09:15	08/27/22 11:15
92622414020	**PZ-57**	Water	08/26/22 11:20	08/27/22 11:15

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SAMPLE ANALYTE COUNT

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92622406005	**PZ-1D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622406006	**FD-01**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622406007	**PZ-31**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622406008	**PZ-33**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414006	**FB-01**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414007	**PZ-2D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414008	**PZ-32**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414009	**PZ-25**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414010	**PZ-19**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414011	**PZ-16**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414012	**PZ-15**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414013	**FD-02**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414014	**PZ-18**	EPA 9315	RMS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414015	**PZ-17**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414016	**PZ-23A**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414017	**PZ-7D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414018	**PZ-14**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414019	**EB-01**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92622414020	**PZ-57**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622406005	**PZ-1D**					
EPA 9315	Radium-226	0.0152 ± 0.0651 (0.168) C:89% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.181 ± 0.549 (1.24) C:71% T:82%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.196 ± 0.614 (1.41)	pCi/L		09/22/22 16:48	
92622406006	**FD-01**					
EPA 9315	Radium-226	0.0157 ± 0.0669 (0.172) C:94% T:NA	pCi/L		09/22/22 19:40	
EPA 9320	Radium-228	0.131 ± 0.246 (0.540) C:76% T:86%	pCi/L		10/04/22 12:28	
Total Radium Calculation	Total Radium	0.147 ± 0.313 (0.712)	pCi/L		10/05/22 16:55	
92622406007	**PZ-31**					
EPA 9315	Radium-226	0.0843 ± 0.0839 (0.158) C:93% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.697 ± 0.607 (1.23) C:70% T:88%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.781 ± 0.691 (1.39)	pCi/L		09/22/22 16:48	
92622406008	**PZ-33**					
EPA 9315	Radium-226	0.0107 ± 0.0845 (0.220) C:84% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.753 ± 0.662 (1.35) C:69% T:89%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.764 ± 0.747 (1.57)	pCi/L		09/22/22 16:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622414006	**FB-01**					
EPA 9315	Radium-226	-0.0245 ± 0.0516 (0.174) C:88% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.463 ± 0.672 (1.45) C:72% T:75%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.463 ± 0.724 (1.62)	pCi/L		09/22/22 16:48	
92622414007	**PZ-2D**					
EPA 9315	Radium-226	-0.00215 ± 0.0602 (0.171) C:91% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.0268 ± 0.601 (1.39) C:74% T:80%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.0268 ± 0.661 (1.56)	pCi/L		09/22/22 16:48	
92622414008	**PZ-32**					
EPA 9315	Radium-226	0.0960 ± 0.102 (0.206) C:91% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.246 ± 0.478 (1.05) C:75% T:92%	pCi/L		09/13/22 16:10	
Total Radium Calculation	Total Radium	0.342 ± 0.580 (1.26)	pCi/L		09/22/22 16:48	
92622414009	**PZ-25**					
EPA 9315	Radium-226	0.205 ± 0.130 (0.208) C:85% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.559 ± 0.363 (0.683) C:79% T:90%	pCi/L		09/13/22 16:48	
Total Radium Calculation	Total Radium	0.764 ± 0.493 (0.891)	pCi/L		09/22/22 16:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622414010	**PZ-19**					
EPA 9315	Radium-226	0.148 ± 0.118 (0.207) C:77% T:NA	pCi/L		09/22/22 09:17	
EPA 9320	Radium-228	0.789 ± 0.405 (0.693) C:74% T:86%	pCi/L		09/13/22 16:48	
Total Radium Calculation	Total Radium	0.937 ± 0.523 (0.900)	pCi/L		09/22/22 16:48	
92622414011	**PZ-16**					
EPA 9315	Radium-226	0.202 ± 0.137 (0.237) C:89% T:NA	pCi/L		09/22/22 08:36	
EPA 9320	Radium-228	0.526 ± 0.405 (0.792) C:76% T:80%	pCi/L		09/13/22 16:48	
Total Radium Calculation	Total Radium	0.728 ± 0.542 (1.03)	pCi/L		09/22/22 16:48	
92622414012	**PZ-15**					
EPA 9315	Radium-226	0.115 ± 0.115 (0.228) C:83% T:NA	pCi/L		09/22/22 08:38	
EPA 9320	Radium-228	0.934 ± 0.453 (0.784) C:79% T:88%	pCi/L		09/13/22 16:48	
Total Radium Calculation	Total Radium	1.05 ± 0.568 (1.01)	pCi/L		09/22/22 16:48	
92622414013	**FD-02**					
EPA 9315	Radium-226	0.0573 ± 0.0802 (0.171) C:87% T:NA	pCi/L		09/22/22 08:40	
EPA 9320	Radium-228	0.771 ± 0.533 (1.05) C:71% T:90%	pCi/L		09/13/22 16:54	
Total Radium Calculation	Total Radium	0.828 ± 0.613 (1.22)	pCi/L		09/22/22 16:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622414014	**PZ-18**					
EPA 9315	Radium-226	0.0434 ± 0.0826 (0.190) C:88% T:NA	pCi/L		09/22/22 08:40	
EPA 9320	Radium-228	-0.0394 ± 0.528 (1.21) C:71% T:91%	pCi/L		09/13/22 16:54	
Total Radium Calculation	Total Radium	0.0434 ± 0.611 (1.40)	pCi/L		09/22/22 16:48	
92622414015	**PZ-17**					
EPA 9315	Radium-226	0.217 ± 0.134 (0.213) C:83% T:NA	pCi/L		09/22/22 08:41	
EPA 9320	Radium-228	0.763 ± 0.527 (1.02) C:74% T:92%	pCi/L		09/13/22 19:25	
Total Radium Calculation	Total Radium	0.980 ± 0.661 (1.23)	pCi/L		09/22/22 16:48	
92622414016	**PZ-23A**					
EPA 9315	Radium-226	0.132 ± 0.105 (0.181) C:86% T:NA	pCi/L		09/22/22 08:12	
EPA 9320	Radium-228	0.264 ± 0.368 (0.786) C:77% T:89%	pCi/L		09/13/22 18:43	
Total Radium Calculation	Total Radium	0.396 ± 0.473 (0.967)	pCi/L		09/22/22 16:48	
92622414017	**PZ-7D**					
EPA 9315	Radium-226	0.0294 ± 0.0630 (0.148) C:86% T:NA	pCi/L		09/22/22 08:13	
EPA 9320	Radium-228	0.742 ± 0.493 (0.926) C:72% T:86%	pCi/L		09/13/22 18:43	
Total Radium Calculation	Total Radium	0.771 ± 0.556 (1.07)	pCi/L		09/22/22 16:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92622414018	**PZ-14**					
EPA 9315	Radium-226	0.00925 ± 0.0751 (0.199) C:90% T:NA	pCi/L		09/22/22 08:14	
EPA 9320	Radium-228	0.444 ± 0.433 (0.889) C:79% T:92%	pCi/L		09/13/22 18:43	
Total Radium Calculation	Total Radium	0.453 ± 0.508 (1.09)	pCi/L		09/22/22 16:48	
92622414019	**EB-01**					
EPA 9315	Radium-226	0.0271 ± 0.0875 (0.217) C:78% T:NA	pCi/L		09/22/22 08:14	
EPA 9320	Radium-228	0.548 ± 0.457 (0.907) C:74% T:87%	pCi/L		09/13/22 18:44	
Total Radium Calculation	Total Radium	0.575 ± 0.545 (1.12)	pCi/L		09/22/22 16:48	
92622414020	**PZ-57**					
EPA 9315	Radium-226	0.135 ± 0.117 (0.219) C:87% T:NA	pCi/L		09/22/22 08:14	
EPA 9320	Radium-228	0.353 ± 0.354 (0.732) C:80% T:87%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	0.488 ± 0.471 (0.951)	pCi/L		09/22/22 16:48	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-1D **Lab ID: 92622406005** Collected: 08/24/22 11:35 Received: 08/25/22 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	**0.0152 ± 0.0651 (0.168) C:89% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.181 ± 0.549 (1.24) C:71% T:82%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.196 ± 0.614 (1.41)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: FD-01 **Lab ID: 92622406006** Collected: 08/24/22 00:00 Received: 08/25/22 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	**0.0157 ± 0.0669 (0.172) C:94% T:NA**	pCi/L	09/22/22 19:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.131 ± 0.246 (0.540) C:76% T:86%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.147 ± 0.313 (0.712)**	pCi/L	10/05/22 16:55	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-31 **Lab ID: 92622406007** Collected: 08/24/22 14:00 Received: 08/25/22 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	**0.0843 ± 0.0839 (0.158) C:93% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.697 ± 0.607 (1.23) C:70% T:88%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.781 ± 0.691 (1.39)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-33 **Lab ID: 92622406008** Collected: 08/24/22 15:45 Received: 08/25/22 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	**0.0107 ± 0.0845 (0.220) C:84% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.753 ± 0.662 (1.35) C:69% T:89%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.764 ± 0.747 (1.57)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: FB-01 **Lab ID: 92622414006** Collected: 08/24/22 10:00 Received: 08/25/22 14:47 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	**-0.0245 ± 0.0516 (0.174) C:88% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.463 ± 0.672 (1.45) C:72% T:75%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.463 ± 0.724 (1.62)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-2D **Lab ID: 92622414007** Collected: 08/24/22 11:32 Received: 08/25/22 14:47 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	**-0.00215 ± 0.0602 (0.171) C:91% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0268 ± 0.601 (1.39) C:74% T:80%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0268 ± 0.661 (1.56)**	pCi/L	09/22/22 16:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-32 **Lab ID: 92622414008** Collected: 08/24/22 14:10 Received: 08/25/22 14:47 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	**0.0960 ± 0.102 (0.206) C:91% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.246 ± 0.478 (1.05) C:75% T:92%**	pCi/L	09/13/22 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.342 ± 0.580 (1.26)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-25 **Lab ID: 92622414009** Collected: 08/24/22 15:45 Received: 08/25/22 14:47 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	**0.205 ± 0.130 (0.208) C:85% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.559 ± 0.363 (0.683) C:79% T:90%**	pCi/L	09/13/22 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.764 ± 0.493 (0.891)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-19 **Lab ID: 92622414010** Collected: 08/25/22 10:28 Received: 08/26/22 10:00 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	**0.148 ± 0.118 (0.207) C:77% T:NA**	pCi/L	09/22/22 09:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.789 ± 0.405 (0.693) C:74% T:86%**	pCi/L	09/13/22 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.937 ± 0.523 (0.900)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-16 **Lab ID: 92622414011** Collected: 08/25/22 12:12 Received: 08/26/22 10:00 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	**0.202 ± 0.137 (0.237) C:89% T:NA**	pCi/L	09/22/22 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.526 ± 0.405 (0.792) C:76% T:80%**	pCi/L	09/13/22 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.728 ± 0.542 (1.03)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-15 **Lab ID: 92622414012** Collected: 08/25/22 14:08 Received: 08/26/22 10:00 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	**0.115 ± 0.115 (0.228) C:83% T:NA**	pCi/L	09/22/22 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.934 ± 0.453 (0.784) C:79% T:88%**	pCi/L	09/13/22 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 0.568 (1.01)**	pCi/L	09/22/22 16:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: FD-02 **Lab ID: 92622414013** Collected: 08/25/22 00:00 Received: 08/26/22 10:00 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	**0.0573 ± 0.0802 (0.171) C:87% T:NA**	pCi/L	09/22/22 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.771 ± 0.533 (1.05) C:71% T:90%**	pCi/L	09/13/22 16:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.828 ± 0.613 (1.22)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-18 **Lab ID: 92622414014** Collected: 08/25/22 10:35 Received: 08/26/22 10:00 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	**0.0434 ± 0.0826 (0.190) C:88% T:NA**	pCi/L	09/22/22 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0394 ± 0.528 (1.21) C:71% T:91%**	pCi/L	09/13/22 16:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0434 ± 0.611 (1.40)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-17 **Lab ID: 92622414015** Collected: 08/25/22 12:10 Received: 08/26/22 10:00 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	**0.217 ± 0.134 (0.213) C:83% T:NA**	pCi/L	09/22/22 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.763 ± 0.527 (1.02) C:74% T:92%**	pCi/L	09/13/22 19:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.980 ± 0.661 (1.23)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-23A **Lab ID: 92622414016** Collected: 08/25/22 16:08 Received: 08/26/22 10:00 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	**0.132 ± 0.105 (0.181) C:86% T:NA**	pCi/L	09/22/22 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.264 ± 0.368 (0.786) C:77% T:89%**	pCi/L	09/13/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.396 ± 0.473 (0.967)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-7D **Lab ID: 92622414017** Collected: 08/25/22 14:10 Received: 08/26/22 10:00 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	**0.0294 ± 0.0630 (0.148) C:86% T:NA**	pCi/L	09/22/22 08:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.742 ± 0.493 (0.926) C:72% T:86%**	pCi/L	09/13/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.771 ± 0.556 (1.07)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-14 **Lab ID: 92622414018** Collected: 08/25/22 16:00 Received: 08/26/22 10:00 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	**0.00925 ± 0.0751 (0.199) C:90% T:NA**	pCi/L	09/22/22 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.444 ± 0.433 (0.889) C:79% T:92%**	pCi/L	09/13/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.453 ± 0.508 (1.09)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: EB-01 **Lab ID: 92622414019** Collected: 08/26/22 09:15 Received: 08/27/22 11:15 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	**0.0271 ± 0.0875 (0.217) C:78% T:NA**	pCi/L	09/22/22 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.548 ± 0.457 (0.907) C:74% T:87%**	pCi/L	09/13/22 18:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.575 ± 0.545 (1.12)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Sample: PZ-57 **Lab ID: 92622414020** Collected: 08/26/22 11:20 Received: 08/27/22 11:15 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	**0.135 ± 0.117 (0.219) C:87% T:NA**	pCi/L	09/22/22 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.353 ± 0.354 (0.732) C:80% T:87%**	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.488 ± 0.471 (0.951)**	pCi/L	09/22/22 16:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

QC Batch: 530231
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92622406005, 92622406007, 92622406008, 92622414006, 92622414007, 92622414008, 92622414009, 92622414010, 92622414011, 92622414012, 92622414013, 92622414014, 92622414015, 92622414016, 92622414017, 92622414018, 92622414019

METHOD BLANK: 2572179
Matrix: Water
Associated Lab Samples: 92622406005, 92622406007, 92622406008, 92622414006, 92622414007, 92622414008, 92622414009, 92622414010, 92622414011, 92622414012, 92622414013, 92622414014, 92622414015, 92622414016, 92622414017, 92622414018, 92622414019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.284 ± 0.356 (0.756) C:78% T:91%	pCi/L	09/13/22 16:45	

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 - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

QC Batch: 530874
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92622406006

METHOD BLANK: 2574652
Matrix: Water
Associated Lab Samples: 92622406006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0646 ± 0.0850 (0.178) C:94% T:NA	pCi/L	09/22/22 19:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

QC Batch: 535739
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92622406006

METHOD BLANK: 2599416
Matrix: Water
Associated Lab Samples: 92622406006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

QC Batch: 530329
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92622406005, 92622406007, 92622406008, 92622414006, 92622414007, 92622414008, 92622414009, 92622414010, 92622414011, 92622414012, 92622414013, 92622414014, 92622414015, 92622414016, 92622414017, 92622414018, 92622414019, 92622414020

METHOD BLANK: 2572345
Matrix: Water
Associated Lab Samples: 92622406005, 92622406007, 92622406008, 92622414006, 92622414007, 92622414008, 92622414009, 92622414010, 92622414011, 92622414012, 92622414013, 92622414014, 92622414015, 92622414016, 92622414017, 92622414018, 92622414019, 92622414020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0390 ± 0.0730 (0.167) C:93% T:NA	pCi/L	09/22/22 09:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

QC Batch: 530871
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92622414020

METHOD BLANK: 2574648
Matrix: Water
Associated Lab Samples: 92622414020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.757 ± 0.340 (0.552) C:80% T:96%	pCi/L	09/21/22 11:51	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

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 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92622406005	PZ-1D	EPA 9315	530329		
92622406006	FD-01	EPA 9315	530874		
92622406007	PZ-31	EPA 9315	530329		
92622406008	PZ-33	EPA 9315	530329		
92622414006	FB-01	EPA 9315	530329		
92622414007	PZ-2D	EPA 9315	530329		
92622414008	PZ-32	EPA 9315	530329		
92622414009	PZ-25	EPA 9315	530329		
92622414010	PZ-19	EPA 9315	530329		
92622414011	PZ-16	EPA 9315	530329		
92622414012	PZ-15	EPA 9315	530329		
92622414013	FD-02	EPA 9315	530329		
92622414014	PZ-18	EPA 9315	530329		
92622414015	PZ-17	EPA 9315	530329		
92622414016	PZ-23A	EPA 9315	530329		
92622414017	PZ-7D	EPA 9315	530329		
92622414018	PZ-14	EPA 9315	530329		
92622414019	EB-01	EPA 9315	530329		
92622414020	PZ-57	EPA 9315	530329		
92622406005	PZ-1D	EPA 9320	530231		
92622406006	FD-01	EPA 9320	535739		
92622406007	PZ-31	EPA 9320	530231		
92622406008	PZ-33	EPA 9320	530231		
92622414006	FB-01	EPA 9320	530231		
92622414007	PZ-2D	EPA 9320	530231		
92622414008	PZ-32	EPA 9320	530231		
92622414009	PZ-25	EPA 9320	530231		
92622414010	PZ-19	EPA 9320	530231		
92622414011	PZ-16	EPA 9320	530231		
92622414012	PZ-15	EPA 9320	530231		
92622414013	FD-02	EPA 9320	530231		
92622414014	PZ-18	EPA 9320	530231		
92622414015	PZ-17	EPA 9320	530231		
92622414016	PZ-23A	EPA 9320	530231		
92622414017	PZ-7D	EPA 9320	530231		
92622414018	PZ-14	EPA 9320	530231		
92622414019	EB-01	EPA 9320	530231		
92622414020	PZ-57	EPA 9320	530871		
92622406005	PZ-1D	Total Radium Calculation	534819		
92622406006	FD-01	Total Radium Calculation	537741		
92622406007	PZ-31	Total Radium Calculation	534819		
92622406008	PZ-33	Total Radium Calculation	534819		
92622414006	FB-01	Total Radium Calculation	534819		
92622414007	PZ-2D	Total Radium Calculation	534819		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell 2022 2nd SA RAD-Revised Report
Pace Project No.: 92622414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92622414008	**PZ-32**	Total Radium Calculation	534819		
92622414009	**PZ-25**	Total Radium Calculation	534819		
92622414010	**PZ-19**	Total Radium Calculation	534819		
92622414011	**PZ-16**	Total Radium Calculation	534819		
92622414012	**PZ-15**	Total Radium Calculation	534819		
92622414013	**FD-02**	Total Radium Calculation	534819		
92622414014	**PZ-18**	Total Radium Calculation	534819		
92622414015	**PZ-17**	Total Radium Calculation	534819		
92622414016	**PZ-23A**	Total Radium Calculation	534819		
92622414017	**PZ-7D**	Total Radium Calculation	534819		
92622414018	**PZ-14**	Total Radium Calculation	534819		
92622414019	**EB-01**	Total Radium Calculation	534819		
92622414020	**PZ-57**	Total Radium Calculation	534819		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐

Sample Condition Upon Receipt

WO#: 92622414

92622414

Client Name: GA Power **Proje**

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 8/25/23 CAH

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: 5.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.8

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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92622414

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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

Proje

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

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 ZN Acetate & NaOH (>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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (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)	BP1N	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)
1		1	1			1 ✓																			2				
2		1	1			1 ✓																			2				
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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.

Pace

~~CHAIN-OF-CUSTODY / Analytical Request Document~~

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Page : 1 1 Of 1 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Rhoda Quinn, Michelle Barker	Company Name:
Suite 100, Kennesaw, GA 30144		Address:
Email: daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
Phone: (770)421-3382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com,
Requested Due Date: Standard	Project #: 6122160110.2202	Pace Profile #: 10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
13	~~PZ-33~~ MIT-PZ-ID-WG-20220824	WT				8/24/22	1135		5	X		X							X	X	X	X		pH=7.49
14	~~PZ-18~~ MIT-APAD-FD-001-WG-20220824	WT				8/24/22	—		5	X		X							X	X	X	X		pH=7.49
15	~~PZ-19~~ MIT-PZ-31-WG-20220824	WT					1400		5	X		X							X	X	X	X		pH=7.04
16	~~PZ-17~~ MIT-PZ-33-WG-20220824	WT					1545		5	X		X							X	X	X	X		pH=7.16
17	~~PZ-16~~	WT																	X	X	X	X		
18	~~PZ-15~~	WT																	X	X	X	X		
19	~~FD-01~~	WT																	X	X	X	X		
20		WT																	X	X		X		
21		WT																			X			
22																								
23																								
24																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/24/22	1800	[signature]	8/25/22	0940	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guilken

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO# : 92622414

PM: NMG **Due Date: 09/16/22**

CLIENT: GA-GA Power

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

8121 3394 4981

Date/Initials Person Examining Contents: 6/25/22 LMP

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: 5.9 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.9

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

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

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

				Comments/Discrepancy:
Chain of Custody 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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

Proje

WO# : 92622414

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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 ZN Acetate & NaOH (>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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	BP1N	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)
1		1	1			1																			2				
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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.

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
Address: 1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:
Suite 100, Kennesaw, GA 30144		Address:
Email: daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
Phone: (770)421-3382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date: Standard	Project #: 6122160170.2203	Pace Profile #: 10834

Regulatory Agency: —

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~GB-01~~ MIT-AP-12-FB-01-WG-20220824	WT				8/24/22	1000		5	X		X						X	X	X	X		pH = 8.01
2	~~GB-03~~ MIT-PZ-2D-WG-20220824	WT					1132		5	X		X						X	X	X	X		pH = 7.34
3	~~GB-02~~ MIT-PZ-32-WG-20220824	WT					1410		5	X		X						X	X	X	X		pH = 7.10
4	~~PZ-25~~ MIT-PZ-25-WG-20220824	WT					1545		5	X		X						X	X	X	X		
5	~~PZ-25A~~	WT																X	X	X	X		
6	~~PZ-30~~	WT																X	X	X	X		
7	~~PZ-28~~	WT																X	X	X	X		
8	~~PZ-27~~	WT																X	X	X	X		
9	~~PZ-19~~	WT																X	X	X	X		
10	~~PZ-31~~	WT																X	X	X	X		
11	~~PZ-1~~	WT																X	X	X	X		
12	~~PZ-02~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/24/22	1800	Charles Hunt	8/25/22	1447	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Grillo

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Proje

WO#: 92622414

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

8121394 4744

8121394 4753

Date/Initials Person Examining Contents: 8/26/22 (JH)

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

8121 9394 5028

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

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 4.8/5.1/5.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.8/5.1/5.4

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: 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

Lot ID of split containers:

pH Strip Lot# 10D4611

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO# : 92622414

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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

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

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 ZN Acetate & NaOH (>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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
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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 #

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Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Quinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144		Purchase Order #:		Address:	
Email:	daniel.howard2@woodplc.com	Project Name:	Mitchell 2022 2nd SA	Pace Quote:	
Phone:	(770)421-3382 Fax:	Project #:	612176017.0.2202	Pace Project Manager:	nicole.d'alessio@pacelabs.com
Requested Due Date:	Standard			Pace Profile #:	10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
1	~~GW-01~~ MIT-PZ-19-WG-20220825	WT				8/25/22	1028		5	X		X							X	X	X	X		92622406
2	~~TW-01~~ MIT-PZ-16-WG-20220825	WT				8/25/22	1212		5	X		X							X	X	X	X		pH = 6.67
3	~~TW-02~~ MIT-PZ-15-WG-20220825	WT				8/25/22	1408		5	X		X							X	X	X	X		pH = 7.14
4	~~PZ-19~~	WT																	X	X	X	X		pH = 7.15
5	~~PZ-23A~~	WT																	X	X	X	X		
6	~~PZ-23~~	WT																	X	X	X	X		
7	~~PZ-29~~	WT																	X	X	X	X		
8	~~PZ-31~~	WT																	X	X	X	X		
9	~~PZ-30~~	WT																	X	X	X	X		
10	~~PZ-31~~	WT																	X	X	X	X		
11	~~PZ-14~~	WT																	X	X	X	X		
12	~~PZ-32~~	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/25/22	1810		8/26/22	0700	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard/Eyer Guillen

SIGNATURE of SAMPLER: Daniel Howard/EG DATE Signed: 8/25/22

TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

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Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Quinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole.d'oleo@pacelabs.com,
Requested Due Date:	Standard	Project #:	612216017.0.2202	Pace Profile #:	10834

Regulatory Agency: | State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~GB-01~~ MIT-AP-12-FD-02-WG-20220825	WT				8/25/22	—		5	X		X							X	X	X	X		pH= 6.76
2	~~PB-01~~ MIT-PZ-18-WG-20220825	WT				8/25/22	1035		5	X		X							X	X	X	X		pH= 6.76
3	~~GD-03~~ MIT-PZ-17-WG-20220825	WT				8/25/22	1210		5	X		X							X	X	X	X		pH= 7.05
4	~~PZ-18~~	WT																	X	X	X	X		
5	~~PZ-29A~~	WT																	X	X	X	X		
6	~~PZ-26~~	WT																	X	X	X	X		
7	~~PZ-28~~	WT																	X	X	X	X		
8	~~PZ-27~~	WT																	X	X	X	X		
9	~~PZ-30~~	WT																	X	X	X	X		
10	~~PZ-31~~	WT																	X	X	X	X		
11	~~PZ-14~~	WT																	X	X	X	X		
12	~~PZ-32~~	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810	Charles Hunt	8/26/22	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Gaillen

SIGNATURE of SAMPLER: Daniel Howard / DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To:	Rhonda Guinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote:	
Phone:	(770)421-3382 Fax:	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole.doleo@pacelabs.com,
Requested Due Date:	Standard	Project #:	612216O170.2202	Pace Profile #:	10834

Regulatory Agency: —

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
13	~~PZ-23~~ MIT-PZ-23A-WG-20220825	WT				8/24/22	1608		5	X		X							X	X	X	X		pH=6.76
14	~~PZ-7D~~ MIT-PZ-7D-WG-20220825	WT				8/24/22	1410		5	X		X							X	X	X	X		pH=6.98
15	~~PZ-14~~ MIT-PZ-14-WG-20220825	WT				8/25/22	1600		5	X		X							X	X	X	X		pH=6.93
16	~~PZ-17~~	WT																	X	X	X	X		
17	~~PZ-16~~	WT																	X	X	X	X		
18	~~PZ-15~~	WT																	X	X	X	X		
19	~~FD-01~~	WT																	X	X	X	X		
20		WT																	X	X		X		
21		WT																			X			
22																								
23																								
24																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/25/22	1810	Chuck Hale	8/26/22	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard / DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92622414

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

8121939 4 5017

Date/Initials Person Examining Contents:

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) 0.0

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	
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: 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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92622414

Project #

PM: NMG Due Date: 09/16/22

CLIENT: GA-GA Power

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

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

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 ZN Acetate & NaOH (>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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (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)	BP1N	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)
1		1	1			1																			2				
2		1	1			1																							
3																													
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

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Wood E&I (GA Power)	Report To:	Daniel Howard	Attention:	
Address:	1075 Big Shanty Road	Copy To	Rhonda Quinn, Michelle Barker	Company Name:	
Suite 100, Kennesaw, GA 30144				Address:	
Email:	daniel.howard2@woodplc.com	Purchase Order #:		Pace Quote	
Phone:	(770)421-3382 Fax	Project Name:	Mitchell 2022 2nd SA	Pace Project Manager:	nicole.d'oleo@pacelabs.com
Requested Due Date:	Standard	Project #:	612160170.2202	Pace Profile #:	10834

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
MATRIX CODES: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																							
1	~~EB-01~~ MIT-APAN-EB-01-WG-20220826	WT				8/26/22	0915		5	X		X							X	X	X	X	
2	~~FB-01~~ MIT-PZ-57-~~WG~~DW-20220826	WT				8/26/22	1120		5	X		X							X	X	X	X	pH=7.09
3	~~FD-02~~	WT																	X	X	X	X	
4	~~PZ-10~~	WT																	X	X	X	X	
5	~~PZ-23A~~	WT																	X	X	X	X	
6	~~PZ-25~~	WT																	X	X	X	X	
7	~~PZ-30~~	WT																	X	X	X	X	
8	~~PZ-67~~	WT																	X	X	X	X	
9	~~PZ-70~~	WT																	X	X	X	X	
10	~~PZ-81~~	WT																	X	X	X	X	
11	~~PZ-14~~	WT																	X	X	X	X	
12	~~PZ-32~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/26/22	1600	Charles Finke 8/27/22		1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/26/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

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Page : 1 / Of 1 /

Section B

Required Project Information:

Report To: Daniel Howard

Copy To: Rhonda Quinn, Michelle Barker

Purchase Order #:

Project Name: Mitchell 2022 2nd SA

Project #: 612316017.0.2202

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote:

Pace Project Manager: nicole.d'oleo@pacelabs.com

Pace Profile #: 10834

Client Information:

Wood E&I (GA Power)

1075 Big Shanty Road

Kennesaw, GA 30144

mel.howard2@woodplc.com

(770)421-3382 Fax

Due Date: Standard

Regulatory Agency

State / Location: GA

SAMPLE ID

One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~2:59~~ PZ-1D	WG				8/24/22	1135		5	X		X						X	X	X	X		pH=7.49
~~2:40~~ FD-01	WG				8/24/22	—		5	X		X						X	X	X	X		pH=7.49
~~2:19~~ PZ-31	WG					1400		5	X		X						X	X	X	X		pH=7.04
~~2:17~~ PZ-33	WG				↓	1545		5	X		X						X	X	X	X		pH=7.10
~~2:10~~	WT																X	X	X	X		
~~2:15~~	WT																X	X	X	X		
~~2:11~~	WT																X	X	X	X		
	WT																X	X		X		
	WT																		X			

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Daniel Howard / Wood	8/24/22	1800			

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/24/22

Pace

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Page : 1 Of 1

Client Information:	Section B Required Project Information:	Section C Invoice Information:
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:
Kennesaw, GA 30144		Address:
aniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
(770)421-3382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com,
Due Date: Standard	Project #: 6122160170.2202	Pace Profile #: 10834

Regulatory Agency:

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Sample ID	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	Collected Start Date	Start Time	End Date	End Time	Sample Temp at Collection	# of Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~FB-01~~ PZ-19	~~WT~~ WG				8/23/22	1028		5	X		X						x	x	x	x		pH=6.67
~~FB-01~~ PZ-16	~~WT~~ WG				8/24/22	1212		5	X		X						x	x	x	x		pH=7.14
~~FD-02~~ PZ-15	~~WT~~ WG				8/25/22	1408		5	X		X						x	x	x	x		pH=7.15
~~PZ-18~~	WT																x	x	x	x		
~~PZ-23~~	WT																x	x	x	x		
~~PZ-26~~	WT																x	x	x	x		
~~PZ-20~~	WT																x	x	x	x		
~~PZ-67~~	WT																x	x	x	x		
~~PZ-70~~	WT																x	x	x	x		
~~PZ-31~~	WT																x	x	x	x		
~~PZ-14~~	WT																x	x	x	x		
~~PZ-32~~	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

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Section B Required Project Information:		Section C Invoice Information:	
Client Information:			
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name	
Kennesaw, GA 30144		Address	
daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote	Regulatory Agency
(770)421-3382 Fax:	Project Name: Mitchell-2022-2nd-SA	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location
Due Date: Standard	Project #: 612216017.0.2202	Pace Profile #: 10834	GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~FB-01~~ FB-01	WQ				8/24/22	1000		5	X		X							X	X	X	X		
~~FB-01~~ PZ-2D	WG					1132		5	X		X							X	X	X	X		pH=8.01
~~FB-02~~ PZ-32	WG					1410		5	X		X							X	X	X	X		pH=7.34
~~P24B~~ PZ-25	WG					1546		5	X		X							X	X	X	X		pH=7.10
~~PZ-28A~~	WT																	X	X	X	X		
~~PZ-25-A~~	WT																	X	X	X	X		
~~PZ-2D~~	WT																	X	X	X	X		
~~PZ-57~~	WT																	X	X	X	X		
~~PZ-11T~~	WT																	X	X	X	X		
~~PZ-9T~~	WT																	X	X	X	X		
~~PZ-11T~~	WT																	X	X	X	X		
~~PZ-32~~	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/Wood	8/24/22	1800				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard /Ever Guiller

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/24/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

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Page: 1 / Of 1 /

Client Information:	Section B Required Project Information:	Section C Invoice Information:
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:
Kennesaw, GA 30144		Address:
daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:
(770)421-8382 Fax:	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Due Date: Standard	Project #: 612216017.0.2202	Pace Profile #: 10834

Regulatory Agency

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample IDs must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OI
Wipe	WP
Air	AR
Other	OT
Tissue	TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~2-33~~ FD-02	~~WF~~ WG				8/25/22	—		5	X		X							X	X	X	X		pH = 6.76
~~2-18~~ PZ-18	~~WAT~~ WG				8/25/22	1035		5	X		X							X	X	X	X		pH = 6.76
~~2-19~~ PZ-17	~~WAT~~ WG				8/25/22	1210		5	X		X							X	X	X	X		pH = 7.05
~~2-17~~	WT																	X	X	X	X		
~~2-16~~	WT																	X	X	X	X		
~~2-15~~	WT																	X	X	X	X		
~~2-01~~	WT																	X	X	X	X		
	WT																	X	X		X		
	WT																			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section B Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Wood E&I (GA Power)	Report To: Daniel Howard	Attention:	
1075 Big Shanty Road	Copy To: Rhonda Quinn, Michelle Barker	Company Name:	
Kennesaw, GA 30144		Address:	
daniel.howard2@woodplc.com	Purchase Order #:	Pace Quote:	Regulatory Agency
(770)421-3382 Fax	Project Name: Mitchell 2022 2nd SA	Pace Project Manager: nicole.foley@pacelabs.com	State / Location: GA
Due Date: Standard	Project #: 6122160170.3202	Pace Profile #: 10634	

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	Acc III/IV Metals	RAD 228 / 226	Residual Chlorine (Y/N)	
~~1~~ PZ-23A	WG				8/25/22	1658		5	X		X						X	X	X	X		pH=6.76
~~2~~ PZ-7D	WG				8/25/22	1410		5	X		X						X	X	X	X		pH=6.98
~~3~~ PZ-14	WG				8/25/22	1600		5	X		X						X	X	X	X		pH=6.93
~~4~~	WT																X	X	X	X		
~~5~~	WT																X	X	X	X		
~~6~~	WT																X	X	X	X		
~~7~~	WT																X	X	X	X		
~~8~~	WT																X	X	X	X		
~~9~~	WT																X	X	X	X		
~~10~~	WT																X	X	X	X		
~~11~~	WT																X	X	X	X		
~~12~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/25/22	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard / Ever Guillen

SIGNATURE of SAMPLER: Daniel Howard DATE Signed: 8/25/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Client Information:
Wood E&I (GA Power)
1075 Big Shanty Road
Kennesaw, GA 30144
daniel.howard2@woodplc.com
(770)421-3382 Fax:
Due Date: Standard

Section B
Required Project Information:
Report To: Daniel Howard
Copy To: Rhonda Quinn, Michelle Barker
Purchase Order #:
Project Name: Mitchell 2022 2nd SA
Project #: 612216017.0.2202

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole.d'oleo@pacelabs.com
Pace Profile #: 10634

Regulatory Agency
State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Cl, F, SO4	TDS	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
~~EOT~~ EB-01	WQ ~~WT~~				8/26/22	0915		5	X		X						X	X	X	X		
~~TRIP~~ PZ-57	WG ~~WT~~				8/26/22	1120		5	X		X						X	X	X	X		pH=7.09
~~D-02~~	WT																X	X	X	X		
~~210~~	WT																X	X	X	X		
~~2730~~	WT																X	X	X	X		
~~1245~~	WT																X	X	X	X		
~~220~~	WT																X	X	X	X		
~~262~~	WT																X	X	X	X		
~~270~~	WT																X	X	X	X		
~~231~~	WT																X	X	X	X		
~~244~~	WT																X	X	X	X		
~~252~~	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / Wood	8/26/22	1600				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed: 8/26/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/7/2022
Worklist:	68670
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2572179
MB concentration:	0.284
M/B 2 Sigma CSU:	0.356
MB MDC:	0.756
MB Numerical Performance Indicator:	1.56
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68670	LCSD68670
Count Date:	9/13/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	34.342	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.800	
Target Conc. (pCi/L, g, F):	4.291	
Uncertainty (Calculated):	0.210	
Result (pCi/L, g, F):	3.620	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.852	
Numerical Performance Indicator:	-1.50	
Percent Recovery:	84.37%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/16/2022	
Sample I.D.	30516426010	
Sample MS I.D.	30516426020	
Sample MSD I.D.	30516426021	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	34.663	
Spike Volume Used in MS (mL):	0.10	
Spike Volume Used in MSD (mL):	0.10	
MS Aliquot (L, g, F):	0.804	
MS Target Conc.(pCi/L, g, F):	4.311	
MSD Aliquot (L, g, F):	0.802	
MSD Target Conc. (pCi/L, g, F):	4.321	
MS Spike Uncertainty (calculated):	0.211	
MSD Spike Uncertainty (calculated):	0.212	
Sample Result:	0.827	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.716	
Sample Matrix Spike Result:	4.507	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.174	
Sample Matrix Spike Duplicate Result:	4.407	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.190	
MS Numerical Performance Indicator:	-0.889	
MSD Numerical Performance Indicator:	-1.035	
MS Percent Recovery:	85.36%	
MSD Percent Recovery:	82.84%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
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?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30516426010	
Sample MS I.D.	30516426020	
Sample MSD I.D.	30516426021	
Sample Matrix Spike Result:	4.507	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.174	
Sample Matrix Spike Duplicate Result:	4.407	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.190	
Duplicate Numerical Performance Indicator:	0.117	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.99%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD 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:

9/14/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/9/2022
Worklist: 68728
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2574648
MB concentration:	0.757
M/B 2 Sigma CSU:	0.340
MB MDC:	0.552
MB Numerical Performance Indicator:	4.37
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68728	LCSD68728
Count Date:	9/21/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	34.254	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.807	
Target Conc. (pCi/L, g, F):	4.245	
Uncertainty (Calculated):	0.208	
Result (pCi/L, g, F):	4.828	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.031	
Numerical Performance Indicator:	1.09	
Percent Recovery:	113.74%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:	92623277006	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92623277006DUP	
Sample Result (pCi/L, g, F):	2.215	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.587	
Sample Duplicate Result (pCi/L, g, F):	1.505	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.470	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.850	92623277006
Duplicate RPD:	38.13%	92623277006DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
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:		
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:		

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

9/22/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/28/2022
Worklist:	69055
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599416
MB concentration:	0.037
M/B 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69055	LCSD69055
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.806	0.805
Target Conc. (pCi/L, g, F):	4.933	4.940
Uncertainty (Calculated):	0.355	0.356
Result (pCi/L, g, F):	4.189	4.442
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977
Numerical Performance Indicator:	-1.48	-0.94
Percent Recovery:	84.92%	89.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69055	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69055	
Sample Result (pCi/L, g, F):	4.189	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917	
Sample Duplicate Result (pCi/L, g, F):	4.442	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		

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

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-226
Analyst: RMS
Date: 9/7/2022
Worklist: 68700
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2572345
MB concentration:	0.039
M/B Counting Uncertainty:	0.073
MB MDC:	0.167
MB Numerical Performance Indicator:	1.05
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68700	LCSD68700
Count Date:	9/22/2022	9/22/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.779	4.773
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.458	5.474
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.482	0.511
Numerical Performance Indicator:	-1.29	2.67
Percent Recovery:	93.29%	114.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68700	92622406005
Duplicate Sample I.D.	LCSD68700	92622406005DUP
Sample Result (pCi/L, g, F):	4.458	0.015
Sample Result Counting Uncertainty (pCi/L, g, F):	0.482	0.065
Sample Duplicate Result (pCi/L, g, F):	5.474	0.077
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.511	0.075
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-2.835	-1.222
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.57%	134.13%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:		

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

Comments:

***~~Batch must be re-prepped due to unacceptable precision~~ N/A

LAM 9/22/22

LAM 9/22/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-226
Analyst: RMS
Date: 9/12/2022
Worklist: 68731
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2574652
MB concentration:	0.065
M/B Counting Uncertainty:	0.084
MB MDC:	0.178
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68731	LCSD68731
Count Date:	9/23/2022	9/23/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.502
Target Conc. (pCi/L, g, F):	4.778	4.789
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.976	4.446
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.520	0.462
Numerical Performance Indicator:	0.74	-1.44
Percent Recovery:	104.14%	92.84%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68731	92622406006
Duplicate Sample I.D.	LCSD68731	92622406006DUP
Sample Result (pCi/L, g, F):	4.976	0.016
Sample Result Counting Uncertainty (pCi/L, g, F):	0.520	0.067
Sample Duplicate Result (pCi/L, g, F):	4.446	0.046
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.462	0.077
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.492	-0.580
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.48%	98.11%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail
% RPD Limit:	25%	25%

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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:		

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

Comments:

~~***Batch must be re-prepped due to unacceptable precision~~ N/A
LAM 9/26/22

LAM 9/26/22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 20, 2022

Michelle Barker
WOOD E&I
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Ms. Lauren Petty, Southern Company
Rhonda Quinn, WOOD E&I
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Greg Wrenn, WOOD E&I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92630865001	**PZ-2D**	Water	10/11/22 11:30	10/12/22 15:00
92630865002	**PZ-32**	Water	10/11/22 13:15	10/12/22 15:00
92630865003	**PZ-25**	Water	10/11/22 15:40	10/12/22 15:00
92630865004	**EB-01**	Water	10/11/22 08:20	10/12/22 15:00
92630865005	**FB-1**	Water	10/11/22 10:00	10/12/22 15:00
92630865006	**FD-01**	Water	10/11/22 00:00	10/12/22 15:00

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SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92630865001	**PZ-2D**	SM 2540C-2015	BTS	1
92630865002	**PZ-32**	SM 2540C-2015	BTS	1
92630865003	**PZ-25**	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92630865004	**EB-01**	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92630865005	**FB-1**	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92630865006	**FD-01**	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92630865001	**PZ-2D**					
	Performed by	Customer			10/13/22 14:04	
	pH	7.94	Std. Units		10/13/22 14:04	
SM 2540C-2015	Total Dissolved Solids	75.0	mg/L	25.0	10/14/22 16:06	
92630865002	**PZ-32**					
	Performed by	Customer			10/13/22 14:04	
	pH	7.37	Std. Units		10/13/22 14:04	
SM 2540C-2015	Total Dissolved Solids	173	mg/L	25.0	10/14/22 16:06	
92630865003	**PZ-25**					
	Performed by	Customer			10/13/22 14:04	
	pH	7.13	Std. Units		10/13/22 14:04	
SM 2540C-2015	Total Dissolved Solids	267	mg/L	25.0	10/14/22 16:06	
92630865006	**FD-01**					
SM 2540C-2015	Total Dissolved Solids	260	mg/L	25.0	10/14/22 16:06	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: PZ-2D **Lab ID: 92630865001** Collected: 10/11/22 11:30 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		10/13/22 14:04		
pH	**7.94**	Std. Units			1		10/13/22 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**75.0**	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: PZ-32 **Lab ID: 92630865002** Collected: 10/11/22 13:15 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		10/13/22 14:04		
pH	**7.37**	Std. Units			1		10/13/22 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**173**	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: PZ-25 **Lab ID: 92630865003** Collected: 10/11/22 15:40 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		10/13/22 14:04		
pH	**7.13**	Std. Units			1		10/13/22 14:04		
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	10/17/22 16:05	10/18/22 10:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**267**	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: EB-01 **Lab ID: 92630865004** Collected: 10/11/22 08:20 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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	10/17/22 16:05	10/18/22 10:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: FB-1 **Lab ID: 92630865005** Collected: 10/11/22 10:00 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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	10/17/22 16:05	10/18/22 10:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Sample: FD-01 **Lab ID: 92630865006** Collected: 10/11/22 00:00 Received: 10/12/22 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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	10/17/22 16:05	10/18/22 10:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**260**	mg/L	25.0	25.0	1		10/14/22 16:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

QC Batch: 730765
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92630865003, 92630865004, 92630865005, 92630865006

METHOD BLANK: 3804947 Matrix: Water
Associated Lab Samples: 92630865003, 92630865004, 92630865005, 92630865006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/18/22 09:22	

LABORATORY CONTROL SAMPLE: 3804948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3804949 3804950

Parameter	Units	92630865003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	82	79	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

QC Batch: 730309 | 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: 92630865001, 92630865002, 92630865003, 92630865004, 92630865005, 92630865006

METHOD BLANK: 3802695 Matrix: Water
Associated Lab Samples: 92630865001, 92630865002, 92630865003, 92630865004, 92630865005, 92630865006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/14/22 16:02	

LABORATORY CONTROL SAMPLE: 3802696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 3802698

Parameter	Units	92630709001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	46.0	44.0	4	10	

SAMPLE DUPLICATE: 3802794

Parameter	Units	92630583001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	884	876	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92630865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92630865001	**PZ-2D**				
92630865002	**PZ-32**				
92630865003	**PZ-25**				
92630865003	**PZ-25**	EPA 7470A	730765	EPA 7470A	730893
92630865004	**EB-01**	EPA 7470A	730765	EPA 7470A	730893
92630865005	**FB-1**	EPA 7470A	730765	EPA 7470A	730893
92630865006	**FD-01**	EPA 7470A	730765	EPA 7470A	730893
92630865001	**PZ-2D**	SM 2540C-2015	730309		
92630865002	**PZ-32**	SM 2540C-2015	730309		
92630865003	**PZ-25**	SM 2540C-2015	730309		
92630865004	**EB-01**	SM 2540C-2015	730309		
92630865005	**FB-1**	SM 2540C-2015	730309		
92630865006	**FD-01**	SM 2540C-2015	730309		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92630865

92630865

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 10/12/22 JM

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

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

Thermometer: ☐ IR Gun ID: ~~D214~~

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 8.6 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 8.6

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. CLIENT PROVIDED SAMPLE CONTAINER
-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? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
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

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92630865

Project #

PM: NMG Due Date: 10/26/22

CLIENT: GA-GA Power

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

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

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 ZN Acetate & NaOH (>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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			X																						
2			1			✓																						
3			1			1																						
4			1			✓																						
5			1			✓																						
6			1			1																						
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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A
Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 7 Day

Section B
Required Project Information
Report To: SCS Contacts
Copy To: Wood Contacts Rhonda Quinn
Purchase Order No.:
Project Name: Mitchell AP-A, AP-1, AP-2
Project Number: Wood/WSP #6122160170

Section C
Invoice Information:
Attention: Southern Co.
Company Name: WSP USA (formerly Wood)
Address: 1075 Big Shanty Road Kennesaw, GA
Pace Quote Reference:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10834

REGULATORY AGENCY
☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR
Site Location STATE: GA

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: TDS SM2540C	Mercury EPA 7470A	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PZ-20	WG	G			10-11-22	1130		1	1								X			
2	PZ-32	WG	G			10-11-22	1315		1	1								X			PH=7.94
3	PZ-25	WG	G			10-11-22	1540		2	1		1						X	X		PH=7.37
4	EB-01	WQ	G			10-11-22	820		2	1		1						X	X		PH=7.13
5	FB-01	WQ	G			10-11-22	1000		2	1		1						X	X		
6	FD-001	WG	G			10-11-22			2	1		1						X	X		
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
EVER GUILLEN		10-12-22	1500	Chanda Hanks	10/12/22	1500	
7-DAY TAT PLEASE							

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: EVER GUILLEN
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 10-11-22

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

APPENDIX B

DATA QUALITY EVALUATION

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #18
Wood Project Number: 6122160170.2203.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92622406 and 92630865

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #18 (August and October 2022) conducted at Ash Ponds 1 and 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:

Qualifier	Usable Data
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. *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.*
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. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
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 these SDGs are usable* with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

*Samples were recollected in October 2022 and usable data were generated for TDS results previously rejected due to gross exceedance of the analytical holding times.

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.

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, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Methods SW6020B and SW6010D (calcium), mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM2540C. The anions were analyzed by Pace-Asheville, North Carolina. These data were reported in SDG 92622406.

Select samples were recollected in October 2022 and analyzed for TDS and/or mercury to generate usable data that was previously qualified for exceedance of holding times and the data were reported in SDG 92630865.

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 and narrated 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

These SDGs contain the following groundwater and quality control (QC) samples:

SDG 92622406:

GPC Sample ID	Pace Sample ID	Sample Date	DQE Level	GPC Sample ID	Pace Sample ID	Sample Date	DQE Level
MIT-PZ-1D-WG-20220824	PZ-1D	08/24/22	II	MIT-PZ-25-WG-20220824	PZ-25	08/24/22	II
MIT-PZ-2D-WG-20220824	PZ-2D	08/24/22	II	MIT-PZ-31-WG-20220824	PZ-31	08/24/22	II
MIT-PZ-7D-WG-20220825	PZ-7D	08/25/22	II	MIT-PZ-32-WG-20220824	PZ-32	08/24/22	II
MIT-PZ-14-WG-20220825	PZ-14	08/25/22	II	MIT-PZ-33-WG-20220824	PZ-33	08/24/22	II
MIT-PZ-15-WG-20220825	PZ-15	08/25/22	II	MIT-PZ-57-WG-20220826	PZ-57	08/26/22	II
MIT-PZ-16-WG-20220825	PZ-16	08/25/22	II	**QC Samples**			
MIT-PZ-17-WG-20220825	PZ-17	08/25/22	II	MIT-APA12-EB-01-WQ-20220826	EB-01	08/26/22	II
MIT-PZ-18-WG-20220825	PZ-18	08/25/22	II	MIT-APA12-FB-01-WQ-20220824	FB-01	08/24/22	II
MIT-PZ-19-WG-20220825	PZ-19	08/25/22	II	MIT-APA12-FD-001-WQ-20220824	FD-01	08/24/22	II
MIT-PZ-23A-WG-20220825	PZ-23A	08/25/22	II	MIT-APA12-FD-002-WQ-20220825	FD-02	08/25/22	II

These samples were collected from Ash Ponds 1 and 2 between August 24 and August 26, 2022. Sample MIT-APA12-FD-001-WQ-20220824 (FD-001) is a field duplicate of MIT-PZ-1D-WG-20220824 (PZ-1D), and MIT-APA12-FD-002-WQ-20220825 (FD-002) is a field duplicate of MIT-PZ-18-WG-20220825 (PZ-18). The field QC blanks include samples MIT-APA12-FB-01-WQ-20220824 ([FB-01] a field blank sample) and MIT-APA12-EB-01-WQ-20220826 ([EB-01] an equipment blank). The truncated sample IDs (i.e., PZ-18, etc.) will be used to discuss the data quality in this narrative.

The analytical results for the metals, mercury, and anions data are usable with the qualifications discussed in this narrative with the following exceptions: four of nineteen TDS results were considered unusable; therefore, samples were recollected in October and reported in SDG 92630865 as listed below:

SDG 92630865:

GPC Sample ID	Pace Sample ID	Sample Date	DQE Level	QC Sample ID	Pace Sample ID	Sample Date	DQE Level
MIT-PZ-25-WG-20221011	PZ-25	10/11/22	II	MIT-APA12-EB-01-WQ-20221011	EB-01	10/11/22	II
MIT-PZ-2D-WG-20221011	PZ-2D	10/11/22	II	MIT-APA12-FB-01-WQ-20221011	FB-01	10/11/22	II
MIT-PZ-32-WG-20221011	PZ-32	10/11/22	II	MIT-APA12-FD-001-WG-20221011	FD-01	10/11/22	II

These samples were collected from Ash Ponds 1 and 2 on October 11, 2022 and analyzed for TDS and/or mercury due to exceedance of analytical holding times. Sample FD-001 is a field duplicate of PZ-25, and the field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank). Samples PZ-25, FD-001, FB-01 and EB-01 were additionally analyzed for mercury. The analytical results for the mercury and TDS data are usable with the qualifications discussed in this narrative.

Note: GPC created new sample IDs specific to their database; however, Pace LIMS could not accommodate the GPC sample IDs and reported the samples with the simpler established format.

A summary of the data quality is presented below.

Metals (SW6020B)

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 MS/MSD recoveries.

Holding Times

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

Method Blanks

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

Laboratory Control Sample (LCS)

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

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were performed on samples FD-001, PZ-32, PZ-31, PZ-57, PZ-2D, and PZ-14. The recoveries and RPDs were within QC limits except for calcium in FD-001 and PZ-32.

> *Action: No qualification was necessary because calcium was present in the parent samples greater than 4 times (4x) the spikes.*

Post Digestion Spike (PDS)

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

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. FD-001 is associated with monitoring well PZ-1D and FD-002 is associated with monitoring well PZ-18. 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. Sample FB-01 is a field blank and is associated with each of the samples reported in this SDG. Sample EB-01 is an equipment blank associated with monitoring well PZ-57 and reported boron at an estimated concentration (0.0091 milligrams per liter [mg/l]) between the method detection limit (MDL) and the reporting limit (RL). Sample results less than 10x the blank amount may be a field artifact and possibly biased high. Affected sample results below the RL were raised to the RL and flagged as a non-detect (U*) and sample results above the RL were flagged as possibly biased high (J) at the result reported. **Reason Code: BE**

Action: The boron result for PZ-57 was qualified as estimated and flagged "J".

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6010D and SW6020B with the exception of boron due to dilution. Samples PZ-16, PZ-15, PZ-18/FD-02, PZ-17, PZ-23A, and PZ-7D required a 5x dilution for boron to bring the concentration into the calibration range or to minimize matrix affects from the presence of elevated levels of non-target analytes or other matrix interference. Sample PZ-14 was re-analyzed due to boron being initially reported as non-detect with an elevated RL, and no qualification of the re-analyzed result was necessary.

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 for holding time on sample PZ-25. Therefore, sample PZ-25, along with QC samples, were recollected in October 2022 for mercury and reported in SDG 92630865.

Holding Times

The sample analyses were performed within the 28-day analysis holding time except for the August 2022 sample PZ-25, and the associated result was considered estimated (J). Sample PZ-25, plus QC samples, were recollected (reported in SDG 92630865) and were analyzed within the holding time. Therefore, no qualification was required.

Method Blanks

The method blanks associated with the samples analyzed within these SDGs contained no 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 PZ-1D (SDG 92622406) and PZ-25 (SDG 92630865), and the recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

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

Field Duplicate Precision

Blind field duplicate sample pairs, PZ-ID/FD-001 and PZ-18/FD-002 (SDG 92622406), and PZ-25/FD-001 (SDG 92630865) 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.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

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

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. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" flags were retained by the validator unless overridden by qualification for other QC criteria.

Anions (EPA 300)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300. 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)

MS/MSD analyses were performed on samples PZ-32 and PZ-7D, and the recoveries and RPDs were within QC limits.

Field Duplicate Precision

Two blind field duplicate sample pairs (PZ-ID/FD-001 and PZ-18/FD-002) 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 blank or the field blank.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported

between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM2540C)

The samples were submitted to Pace for TDS by Method SM2540C. Each of the Level II components were within QC limits except for holding time on samples FB-01, PZ-2D, PZ-32, and PZ-25. Therefore, samples FB-01, PZ-2D, PZ-32, and PZ-25, along with QC samples, were recollected in October 2022 for TDS and reported in SDG 92630865.

Holding Times

The sample analyses were performed within the 7-day analysis holding time except for August 2022 samples FB-01, PZ-2D, PZ-32, and PZ-25, and the associated results are considered unusable (R) because the samples were analyzed outside twice the recommended holding time. Therefore, samples were recollected (SDG 92630865) and TDS was analyzed within the holding time and the data is usable without qualification.

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 analysis was performed on project sample PZ-18 and the RPD was within QC limits.

Field Duplicate Precision

Blind field duplicate sample pairs, PZ-ID/FD-001 and PZ-18/FD-002 (SDG 92622406), and PZ-25/FD-001 (SDG 92630865) 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)

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

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method 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: DWK 09/30/22
Checked By/Date: JAH 10/03/22
Revised by/Date: DWK 10/19/22
Checked By/Date: JAH 11/07/22

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92622406 / 92630685
SAMPLING DATES: August 24-26, 2022 / October 11, 2022
Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
SDG: 92622406 - Collected August 2022:										
*PZ-25**	PZ-25	N	92622406	2540C	total dissolved solids	286	H1	R	H	mg/L
*PZ-25**	PZ-25	N	92622406	7470A	mercury	0.00018	J,H1	J	H	mg/L
*PZ-2D**	PZ-2D	N	92622406	2540C	total dissolved solids	287	H1	R	H	mg/L
*PZ-32**	PZ-32	N	92622406	2540C	total dissolved solids	172	H1	R	H	mg/L
PZ-57	PZ-57	N	92622406	6020B	boron	0.18		J	BE	mg/L
*FB-01**	FB-01	FB	92622406	2540C	total dissolved solids	ND	H1	UR	H	mg/L
SDG: 92630865 (Resample) - Collected October 2022:										
NO QUALIFICATION REQUIRED*										

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by other DQE qualifiers.
**Samples PZ-25, PZ-2D, PZ-32 and FB-01 were resampled for TDS and PZ-25 was additionally resampled for mercury on October 11, 2022. Both TDS and mercury were ananlyzed within analytical holding times; therefore, all data are usable. The resampled data were reported in SDG 92630865.*

Laboratory Qualifiers:
H1 = Holding time was exceeded
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Reason Codes:
BE = Equipment blank contamination. The result should be considered biased high.
H = Holding time was exceeded

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.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed. 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.

Prepared by/Date: DWK 09/30/22
Checked by/Date: JAH 10/03/22

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 18
Project No: 6122160170.2203.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92622406 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 09/30/22 **Senior Reviewer/Date:** J. Hartness 10/03/22
Revised/Date: D. Knaub 10/19/22 **Revision Reviewer/Date:** J. Hartness 11/07/22

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace. Report revised after re-analysis of boron in PZ-14
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** 5.8°C OK
X			**Holding times met (180 days)** OK
	X		**QC Blanks Review – any MB results above RL?** Method Blanks: p. 31 SW6010D MB 3759360 (Ca only) = ND p. 32 SW6010D MB 3765178 (Ca only) = ND p. 33 SW6010D MB 3776437 (Ca only) = ND p. 34 SW6020B MB 3765186 = ND p. 36 SW6020B MB 3765581 = ND p. 38 SW6020B MB 3776575 = ND p. 40 SW6020B MB 3797015 (B re-anal)= ND Field/Equipment Blanks: EB-01 (assoc. w/ PZ-57) B= 0.0091J mg/L ***B result for PZ-57 flagged "J"*** FB-01 = ND *(associated with all samples)*
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 31 SW6010D LCS 3759361 – Ca =109% OK p. 32 SW6010D LCS 3765179 – Ca =106% OK p. 33 SW6010D LCS 3776438 - Ca = 97% OK p. 34 SW6020B LCS 3765187 – All OK p. 36 SW6020B LCS 3765582 – All OK p. 38 SW6020B LCS 3776576 – All OK p. 40 SW6020B LCS 3797016 B = 106%

Metals (SW6010D/6020B) continued:

YES NO NA COMMENTS

X

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

Constituent	**PZ-1D** (mg/L)	**FD-001** (mg/L)	RPD/Diff & RL
Ca	45.8	46.4	1.3
Ba	0.015	0.013	14.3
B	0.011J	ND	0.029 0.04
Cr	0.0025J	0.0023J	0.0002 0.005
Mo	0.00088J	0.00085J	0.000030.01
Constituent	**PZ-18** (mg/L)	**FD-002** (mg/L)	RPD/Diff & RL
Ca	141	147	4.2
Ba	0.026	0.025	3.9
B	0.39	0.38	2.6
Li	0.0033J	0.0033J	0.0

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).

p. 36 Lab dup on non-project sample

X

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

p. 31 SW6010D (Ca only) **–** *Not a sample from this SDG*
p. 32 SW6010D (Ca only) **–** FD-001 Ca = 249, 352% RPD = 2 No flag, sample > 4x spike
p. 33 SW6010D (Ca only) **–** PZ-32 Ca = 100, 212% RPD = 2 No flag, sample > 4x spike

p. 34-35 SW6020B **PZ-31** - All %rec and RPDs OK
p. 36-37 SW6020B ***PZ-57*** - All %rec and RPDs OK
p. 38-39 SW6020B ***PZ-2D*** - All %rec and RPDs OK
p. 40 SW6020B ***PZ-14 (re-anal)*** – B = 95, 98% RPD 3

X

Post Digestion Spike recoveries within limits (if applicable: 80-120%)
Not reported for L2 data package

X

Total metals vs dissolved metals (RPD < 20% or diff. < RL)
No dissolved results in this SDG

X

EDD Data Verification vs. Hardcopy (10% samples for each SDG)
Checked each sample in this SDG, all OK (19 samples total)

Dilutions: 5x for boron in samples PZ-16, PZ-15, PZ-18/FD-02, PZ-17, PZ-23A, PZ-7D, and PZ-14.
PZ-14 re-anal. w/ no dilution

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 18
Project No: 6122160170.2203.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92622406 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 09/30/22 **Senior Reviewer/Date:** J. Hartness 10/03/22/rev: 11/07/22
Laboratory and Lot: Pace SDG: **92630865** (Pace – Peachtree Corners, GA) - **Resamples**
Reviewer/Date: J. McIntyre 10/26/22 **Senior Reviewer/Date:** D. Knaub 10/28/22

YES	NO	NA	COMMENTS

Sample PZ-25 (plus QC samples: FD-001, EB-01 and FB-01) recollected in October 2022 due to holding time exceedance and reported in SDG 92630865.

X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6°C±2)** **SDG: 92622406**: 5.8°C. OK **SDG: 92630865**: 8.6°C – Samples were delivered on ice by the sample collector and were only 0.6°C above limit, therefore no qualification was necessary.
	X		**Holding times met (Hg = 28 days)** **SDG: 92622406:** Sample ***PZ-25*** anal. 1 day out of hold, ***assoc. result flagged "J" – recollected and analyzed within hold (see below)*** **SDG: 92630865**: Coll: 10/11/22; Prep: 10/17/22 Anal: 10/18/22 – All ok
X			**QC Blanks Review – any MB results above RL?** **SDG: 92622406**: Method Blanks: p. 40 MB 3765117 Hg = ND p. 41 MB 3774316 Hg = ND p. 42 MB 3774337 Hg = ND Field/Equipment Blanks: EB-01 = ND FB-01 = ND *(associated with all samples)* **SDG: 92630865**: Method Blanks: p. 12 MB 3804947 Hg = ND Field and Equipment Blanks: EB-01 = ND FB-01 = ND
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** **SDG: 92622406**: p. 40 LCS 3765118 – Hg = 97%; p. 41 LCS 3774317 Hg = 102% p. 42 LCS 3774338 Hg = 109% **SDG: 92630865**: p. 12 LCS 3804948 – Hg = 86%
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)** **SDG: 92622406**:

	PZ-1D (mg/L)	**FD-001** (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA
	PZ-18 (mg/L)	**FD-002** (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

SDG: 92630865:

	PZ-25 (mg/L)	**FD-01** (mg/L)	RPD/Diff & RL
	both ND for Hg		

Mercury (SW7470A) continued:

YES	NO	NA	COMMENTS
X			**Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)** **SDG: 92622406**: p. 40 **–** PZ-1D Hg = 89, 91% RPD = 2 p. 41 **–** *not a sample from this SDG* p. 42 **–** *not a sample from this SDG* **SDG: 92630865**: p. 12 – PZ-25 Hg = 82, 79% RPD = 4
	X		**Total metals vs dissolved metals (RPD < 20% or diff. < RL)** No dissolved results in these SDGs
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)** **SDG: 92622406**: Checked each sample in this SDG, all OK (19 samples) **SDG: 92630865**: Checked each sample in this SDG, all OK (4 samples) *No samples in these SDGs required a dilution.*

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 18
Project No: 6122160170.2203.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92622406 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 09/30/22 **Senior Reviewer/Date:** J. Hartness 10/03/22; rev 11/07/22

YES NO NA COMMENTS

No samples in this SDG required a dilution

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace

X **Sample Preservation and cooler temperature met (Cool to 6°C)**
5.8°C. OK

X **Holding times met (28 days)**
OK

X **QC Blanks Review – Any detections above RL?**
Method Blanks:
p. 46 MB 3757656 = ND p. 47 MB 3760016= ND
p. 48 MB 3760039 = ND
Field/Equipment Blanks:
EB-01 = ND; FB-01 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**
p. 46 LCS 3757657= All OK p. 47 LCS 3760017 = All OK
p. 48 LCS 3760040 = All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

Constituent	**PZ-1D** (mg/L)	**FD-001** (mg/L)	RPD/Diff & RL	
chloride	2.6	2.6	0.0	
fluoride	0.08J	0.076J	0.004	0.1
sulfate	2.2	2.2	0.0	

Constituent	**PZ-18** (mg/L)	**FD-002** (mg/L)	RPD/Diff & RL	
chloride	4.6	4.6	0.0	
fluoride	0.052J	0.054J	0.002	0.1
sulfate	96.3	95.6	0.7	

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).

X **Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**
p. 46 Not a sample in this SDG
p. 47 PZ-32 %Recs and RPDs OK (2nd MS/MSD is not a sample in this SDG)
p. 48 PZ-7D %Recs and RPDs OK (2nd MS/MSD is not a sample in this SDG)

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked each sample in this SDG, all OK (19 samples total)

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 18
Project No: 6122160170.2203.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92622406 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 09/30/22 **Senior Reviewer/Date:** J. Hartness 10/03/22; rev 11/07/22
Laboratory and Lot: Pace SDG: **92630865** (Pace – Peachtree Corners, GA) - **Resamples**
Reviewer/Date: J. McIntyre 10/26/22 **Senior Reviewer/Date:** D. Knaub 10/28/22

YES NO NA COMMENTS

Sample PZ-2D, PZ-25, and PZ-32 (plus QC samples: FD-001, EB-01 and FB-01) recollected in October 2022 due to holding time exceedance and reported in SDG 92630865.

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace.

X **Sample Preservation and cooler temperature met (Cool 6°C±2)**
SDG: 92622406: 5.8°C. OK
SDG: 92630865: 8.6°C – Samples were delivered on ice by the sample collector and were only 0.6°C above limit, therefore no qualification was necessary.

X **Holding times met (TDS = 7 days)**
SDG: 92622406: Samples FB-01, PZ-2D, PZ-32, and PZ-25 anal. out of hold, ***results flagged "R" – recollected and analyzed within hold (see below)***
SDG: 92630865: All OK

X **QC Blanks Review – any MB results above RL?**
SDG: 92622406: Method Blanks:
p. 43 MB 3754176 = ND p. 44 MB 3754817= ND
p. 44 MB 3760948 = ND
Field/Equipment Blanks:
EB-01 = ND; FB-01 = ND
SDG: 92630865: Method Blanks:
p. 13 MB 3802695 = ND
Field and Equipment Blanks:
EB-01 = ND; FB-01 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
SDG: 92622406: p. 43 LCS 3754177 TDS = 96%;p. 44 LCS 3754818 TDS = 96%
p. 40 LCS 3760947 TDS = 95%
SDG: 92630865: p. 13 LCS 3802696 TDS = 95%

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**
SDG: 92622406:

Constituent	**PZ-1D** (mg/L)	**FD-01** (mg/L)	RPD/Diff & RL
TDS	139	142	2.1
Constituent	**PZ-18** (mg/L)	**FD-02** (mg/L)	RPD/Diff & RL
TDS	446	432	3.2

Lab Duplicates:
p. 43 *PZ-1D* RPD = 5- ok *PZ-23A* RPD = 3 - ok
p. 44 – not project samples
p. 45 FB-1 RPD NC, both ND and the other dup = not project sample

TDS (SM2540C) continued:

YES	NO	NA	COMMENTS
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

SDG: 92630865:

Constituent	**PZ-25** (mg/L)	**FD-01** (mg/L)	RPD/Diff & RL
TDS	267	260	2.3

Lab Duplicates:
p. 13 – not project samples

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**
Not applicable to TDS

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
SDG: 92622406: Checked each sample in this SDG, all OK (19 samples)
SDG: 92630865: Checked each sample in this SDG, all OK (6 samples)

No samples in this SDG required a dilution.

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #18 - Radium
Wood Project Number: 6122160170.2103.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG Nos: 92622414

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #18 (August 2022) conducted at Ash Ponds 1 and 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:

Qualifier	Usable Data
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. *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.*
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. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
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 92622406. Samples 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	Pace Sample ID	Sample Date	DQE Level	GPC Sample ID	Pace Sample ID	Sample Date	DQE Level
MIT-PZ-1D-WG-20220824	PZ-1D	08/24/22	II	MIT-PZ-25-WG-20220824	PZ-25	08/24/22	II
MIT-PZ-2D-WG-20220824	PZ-2D	08/24/22	II	MIT-PZ-31-WG-20220824	PZ-31	08/24/22	II
MIT-PZ-7D-WG-20220825	PZ-7D	08/25/22	II	MIT-PZ-32-WG-20220824	PZ-32	08/24/22	II
MIT-PZ-14-WG-20220825	PZ-14	08/25/22	II	MIT-PZ-33-WG-20220824	PZ-33	08/24/22	II
MIT-PZ-15-WG-20220825	PZ-15	08/25/22	II	MIT-PZ-57-WG-20220826	PZ-57	08/26/22	II
MIT-PZ-16-WG-20220825	PZ-16	08/25/22	II	**QC Samples**			
MIT-PZ-17-WG-20220825	PZ-17	08/25/22	II	MIT-APA12-EB-01-WQ-20220826	EB-01	08/26/22	II
MIT-PZ-18-WG-20220825	PZ-18	08/25/22	II	MIT-APA12-FB-01-WQ-20220824	FB-01	08/24/22	II
MIT-PZ-19-WG-20220825	PZ-19	08/25/22	II	MIT-APA12-FD-001-WQ-20220824	FD-01	08/24/22	II
MIT-PZ-23A-WG-20220825	PZ-23A	08/25/22	II	MIT-APA12-FD-002-WQ-20220825	FD-02	08/25/22	II

These samples were collected from Ash Ponds 1 and 2 between August 24 and August 26, 2022. Sample DUP-01 is a field duplicate of PZ-1D, and DUP-02 is a field duplicate of PZ-18. The field QC blanks include FB-1, a field blank sample, and EB-1, an equipment blank.

GPC created new sample IDs specific to their database; however, Pace LIMS could not accommodate the GPC sample IDs and reported the samples with the simpler established format.

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), and total radium by Methods SW9315 and SW9320. Total radium was measured by calculation. Each of the Level II components were within QC limits except for field blank contamination.

Holding Times

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

Method Blanks

One of the method blanks contained reportable concentrations of radium above the minimum detectable concentration (MDC); however, no qualification was required because the associated results were not detected in the respective samples.

Laboratory Control Sample (LCS)

The LCS recoveries were within QC limits.

Laboratory Duplicate Precision

A laboratory duplicate was not performed on any project sample in this SDG.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-1 is associated with monitoring well PZ-1D, and DUP-2 is associated with monitoring well PZ-18. RPDs were evaluated for results greater than 5 times the MDC. Radium was not detected in either sample duplicate pair, therefore, precision could not be assessed.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The equipment blank sample EB-1 and field blank, FB-01 did not contain Ra-226 and Ra-228 above the MDC.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were not provided.

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: JPM 10/27/22
Checked By/Date: DWK 10/28/22

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92622414
SAMPLING DATES: August 24-26, 2022
Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
NO QUALIFICATION REQUIRED										

Notes:
No qualification was required for the data reported in this sample delivery group.

Prepared by/Date: JPM 10/27/22
Checked by/Date: DWK 10/28/22

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 18
Project No: 6122160170.2203.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92622414 (Pace-Greensburg, PA)
Reviewer/Date: J. McIntyre 10/26/22 **Senior Reviewer/Date:** D. Knaub 10/28/22

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2)** 5.8, 5.9, 3.8, 4.8, 5.1, 5.4 °C. OK
X			**Holding times met (180 days)** Collected: 08/24/22-8/26/22 Analyzed: Ra-226: 09/22/22 Analyzed: Ra-228: 09/13/22, 09/21/22, 10/04/22 Total Ra: 09/22/22, 10/05/22
	X		**QC Blanks Review (net blank value <MDC)** p. 30 Ra-228 (2572179) = present but <MDC p. 31 Ra-226 (2574652) = present but <MDC p. 32 Ra-228 (2599416) = present but <MDC p. 33 Ra-226 (2572345) = present but <MDC p. 34 Ra-228 (2574648) = **0.757** pCi/L (associated sample PZ-57) *Assoc. result ND, no flag* Field/Equipment Blanks: p. 15 FB-1 = present but <MDC (negative Ra-226 result < negative MDC) p. 28 EB-1 = present but <MDC
X			**Laboratory Control Sample (LCS) recovery within lab limits (60-135%)** p. 58 LCS68670 Ra-228 = 84.37% P. 59 LCS68728 Ra-228 = 113.74% P. 60 LCS68728/LCSD69055 Ra-228 = 84.92, 89.91% RPD = 5.7 p. 61 LCS68700/LCSD68700 Ra-226 = 93.92, 114.68% RPD = 20.57 p. 62 LCS68731/LCSD68731 Ra-226 = 104.14, 92.84% RPD = 11.48
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)* Constituent PZ-1D (pCi/L) DUP-1 (pCi/L) RPD present but <MDC Constituent PZ-18 (pCi/L) DUP-2 (pCi/L) RPD present but <MDC Lab Duplicates: (also see LCS precision above) p. 59, 61, and 62 are not samples from this SDG
		X	**Matrix Spike recoveries and RPDs within limits (if applicable)** p. 58 not a sample from this SDG

YES	NO	NA	COMMENTS
		X	**Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba); Ra-228 (Carrier Ba, Tracer: Y) (30-110%)** Not provided
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**. Checked each sample in this SDG, all OK (20 samples total)

APPENDIX B

FIELD SAMPLING DATA

Low-Flow Test Report:

Test Date / Time: 8/24/2022 10:47:52 AM
Project: Plant Mitchell CCR
Operator Name: Ever Guillen

Location Name: PZ-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 71.65 ft** **Total Depth: 81.65 ft** **Initial Depth to Water: 55.07 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 76.65 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time =1135. Dup FD-01 collected

Weather Conditions: Hot, humid and some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/24/2022 10:47 AM	00:00	7.05 pH	24.09 °C	249.84 µS/cm	6.42 mg/L	33.60 NTU	84.5 mV	55.07 ft	200.00 ml/min
8/24/2022 10:52 AM	05:00	7.37 pH	22.19 °C	244.55 µS/cm	2.67 mg/L	29.40 NTU	39.9 mV	56.52 ft	200.00 ml/min
8/24/2022 10:57 AM	10:00	7.43 pH	23.97 °C	250.98 µS/cm	3.17 mg/L	23.10 NTU	34.4 mV	56.63 ft	200.00 ml/min
8/24/2022 11:02 AM	15:00	7.45 pH	25.24 °C	248.72 µS/cm	3.27 mg/L	17.50 NTU	31.4 mV	56.63 ft	200.00 ml/min
8/24/2022 11:07 AM	20:00	7.47 pH	25.93 °C	248.87 µS/cm	2.86 mg/L	13.90 NTU	26.9 mV	56.61 ft	200.00 ml/min
8/24/2022 11:12 AM	25:00	7.46 pH	25.97 °C	246.85 µS/cm	2.68 mg/L	8.80 NTU	27.0 mV	56.61 ft	200.00 ml/min
8/24/2022 11:17 AM	30:00	7.47 pH	25.96 °C	245.88 µS/cm	2.59 mg/L	6.53 NTU	26.5 mV	56.61 ft	200.00 ml/min
8/24/2022 11:22 AM	35:00	7.49 pH	25.81 °C	247.87 µS/cm	2.56 mg/L	5.44 NTU	25.2 mV	56.61 ft	200.00 ml/min
8/24/2022 11:27 AM	40:00	7.48 pH	26.19 °C	248.03 µS/cm	2.53 mg/L	5.12 NTU	25.9 mV	56.61 ft	200.00 ml/min
8/24/2022 11:32 AM	45:00	7.49 pH	26.33 °C	248.17 µS/cm	2.61 mg/L	3.90 NTU	26.9 mV	56.61 ft	200.00 ml/min

Samples

Sample ID:	Description:

Test Properties
Test Type = Low-Flow Test
Test Date / Time = 2022-08-24 10:47:52
Time Offset = -04:00:00
Operator Name = Ever Guillen
Project = Low-Flow Test 133 (2)
Initial Depth to Water = 55.07 ft
Flow Cell Volume = 90 ml
Final Draw Down = 1.54 ft
Estimated Total Volume Pumped = 9000 ml

Pump Properties
Pump Type = QED
Flow Rate = 200 ml/min
Final Flow Rate = 200 ml/min
Pump Intake From TOC = 76.65 m

Tubing Properties
Tubing Type = HDPE

Location Properties
Location Name = PZ-1D
Location ID = 57008adb-8e66-4ee0-9ae3-8ebe947b6312

Well Properties
Well Diameter = 2 in
Casing Type = PVC
Screen Length = 10 ft
Total Depth = 81.65 ft
Top of Screen = 71.65 ft

Instrument Properties
Device Model = Aqua TROLL 400
Device SN = 877800

Date Time	Elapsed Time	Depth to Water (ft)	Flow (ml/min)	Turbidity (NTU)	RDO Concentration (mg/L) (878537)	RDO Saturation (%Sat) (878537)	Oxygen Partial Pressure (Torr) (878537)	Actual Conductivity (ÂµS/cm) (877800)	Temperature (Â°C) (877800)	Specific Conductivity (ÂµS/cm) (877800)	Salinity (PSU) (877800)	Total Dissolved Solids (ppt) (877800)	Resistivity (Î©â‹…cm) (877800)	Density (g/cmÂ³) (877800)	Pressure (psi) (850056)	pH (pH) (21624)	pH mV (mV) (21624)	ORP (mV) (21624)
8/24/2022 10:47	0:00:00	55.07	200	33.6	6.422483	76.66641	111.46	245.4752	24.0856	249.8386	0.119612	0.162395	4073.732	0.997369	8.27311	7.052401	-7.51066	84.48076
8/24/2022 10:52	0:05:00	56.52	200	29.4	2.673948	30.7925	44.91541	231.4187	22.18802	244.5534	0.11705	0.15896	4321.172	0.99782	8.240588	7.374349	-25.1091	39.94526
8/24/2022 10:57	0:10:00	56.63	200	23.1	3.171651	37.78129	54.93891	246.0627	23.97321	250.9849	0.120175	0.16314	4064.006	0.997397	8.333333	7.43347	-28.5244	34.38943
8/24/2022 11:02	0:15:00	56.63	200	17.5	3.26847	39.85781	57.82022	249.8545	25.23818	248.723	0.119037	0.16167	4002.329	0.997077	8.335042	7.449057	-29.5044	31.43781
8/24/2022 11:07	0:20:00	56.61	200	13.9	2.864949	35.38456	51.25998	253.3166	25.93468	248.8736	0.119087	0.161768	3947.63	0.996894	8.301745	7.469808	-30.7279	26.92813
8/24/2022 11:12	0:25:00	56.61	200	8.8	2.680422	33.12574	47.98443	251.4204	25.96865	246.8533	0.118098	0.160455	3977.402	0.996885	8.29596	7.463469	-30.3769	26.9635
8/24/2022 11:17	0:30:00	56.61	200	6.53	2.585222	31.94578	46.27575	250.3994	25.96272	245.8782	0.117622	0.159821	3993.62	0.996886	8.304152	7.47212	-30.8544	26.45242
8/24/2022 11:22	0:35:00	56.61	200	5.44	2.558704	31.53115	45.68912	251.7139	25.81119	247.8735	0.118603	0.161118	3972.764	0.996927	8.291778	7.489503	-31.8053	25.22952
8/24/2022 11:27	0:40:00	56.61	200	5.12	2.534835	31.45329	45.5411	253.6699	26.19092	248.0281	0.118664	0.161218	3942.131	0.996826	8.30663	7.484661	-31.5765	25.90691
8/24/2022 11:32	0:45:00	56.61	200	3.9	2.606722	32.42854	46.93943	254.4886	26.33282	248.1709	0.118729	0.161311	3929.45	0.996788	8.317773	7.489299	-31.849	26.92659

Notes
Test Notes: Sample time =1135. Dup FD-01 collected
Weather Conditions: Hot, humid and some rain

Low-Flow Test Report:

Test Date / Time: 8/24/2022 11:01:30 AM
Project: Plant Mitchell CCR
Operator Name: Daniel Howard

Location Name: 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: 38.56 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 75.95 ft** **Estimated Total Volume Pumped: 6000 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: 884186**

Test Notes:
Sample time 1132. Sample ID: MIT-PZ-2D-WG-20220824

Weather Conditions:
Overcast, slight rain, 75F

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	
8/24/2022 11:01 AM	00:00	7.73 pH	21.06 °C	150.23 µS/cm	1.62 mg/L	2.52 NTU	60.8 mV	38.66 ft	200.00 ml/min
8/24/2022 11:06 AM	05:00	7.95 pH	20.62 °C	159.47 µS/cm	2.22 mg/L	2.56 NTU	63.6 mV	38.66 ft	200.00 ml/min
8/24/2022 11:11 AM	10:00	7.98 pH	20.54 °C	162.45 µS/cm	2.67 mg/L	1.53 NTU	81.6 mV	38.66 ft	200.00 ml/min
8/24/2022 11:16 AM	15:00	7.98 pH	20.59 °C	162.43 µS/cm	2.83 mg/L	1.74 NTU	62.8 mV	38.66 ft	200.00 ml/min
8/24/2022 11:21 AM	20:00	7.98 pH	20.62 °C	163.02 µS/cm	2.93 mg/L	1.46 NTU	80.9 mV	38.66 ft	200.00 ml/min
8/24/2022 11:26 AM	25:00	8.00 pH	20.63 °C	162.43 µS/cm	3.02 mg/L	1.44 NTU	61.4 mV	38.66 ft	200.00 ml/min
8/24/2022 11:31 AM	30:00	8.01 pH	20.64 °C	163.03 µS/cm	3.07 mg/L	1.51 NTU	79.6 mV	38.66 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 1:23:00 PM
Project: Plant Mitchell CCR (5)
Operator Name: Ever Guillen

Location Name: PZ-7D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60.37 ft** **Total Depth: 60.37 ft** **Initial Depth to Water: 34.92 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 55.37 ft** **Estimated Total Volume Pumped: 8370 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time = 1410

Weather Conditions:
Hot-humid- some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/25/2022 1:23 PM	00:00	7.13 pH	23.81 °C	480.27 µS/cm	3.37 mg/L	28.10 NTU	-30.9 mV	34.92 ft	200.00 ml/min
8/25/2022 1:24 PM	01:51	6.99 pH	22.08 °C	495.17 µS/cm	1.34 mg/L	28.70 NTU	6.0 mV	34.92 ft	200.00 ml/min
8/25/2022 1:29 PM	06:51	6.98 pH	22.27 °C	504.90 µS/cm	0.94 mg/L	23.60 NTU	22.7 mV	34.95 ft	200.00 ml/min
8/25/2022 1:34 PM	11:51	6.99 pH	24.65 °C	496.35 µS/cm	1.39 mg/L	16.90 NTU	19.5 mV	34.95 ft	200.00 ml/min
8/25/2022 1:39 PM	16:51	7.00 pH	25.51 °C	499.53 µS/cm	1.63 mg/L	10.70 NTU	26.3 mV	34.95 ft	200.00 ml/min
8/25/2022 1:44 PM	21:51	7.01 pH	22.18 °C	475.39 µS/cm	1.06 mg/L	6.06 NTU	34.0 mV	34.95 ft	200.00 ml/min
8/25/2022 1:49 PM	26:51	6.98 pH	21.85 °C	485.15 µS/cm	0.99 mg/L	5.02 NTU	35.8 mV	34.95 ft	200.00 ml/min
8/25/2022 1:54 PM	31:51	6.98 pH	21.82 °C	486.70 µS/cm	0.90 mg/L	3.98 NTU	41.9 mV	34.95 ft	200.00 ml/min
8/25/2022 1:59 PM	36:51	6.98 pH	21.82 °C	486.80 µS/cm	0.87 mg/L	2.66 NTU	43.6 mV	34.95 ft	200.00 ml/min
8/25/2022 2:04 PM	41:51	6.98 pH	21.73 °C	486.05 µS/cm	0.83 mg/L	1.73 NTU	38.2 mV	34.95 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 3:10:04 PM
Project: Plant Mitchell CCR (6)
Operator Name: Ever Guillen

Location Name: PZ-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.2 ft** **Total Depth: 53.2 ft** **Initial Depth to Water: 45.55 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 48.2 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time = 1600

Weather Conditions:
Hot - humid- some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/25/2022 3:10 PM	00:00	7.45 pH	29.75 °C	302.21 µS/cm	6.99 mg/L	21.10 NTU	42.0 mV	45.61 ft	200.00 ml/min
8/25/2022 3:15 PM	05:00	6.95 pH	23.08 °C	452.77 µS/cm	6.03 mg/L	17.30 NTU	62.5 mV	45.61 ft	200.00 ml/min
8/25/2022 3:20 PM	10:00	6.95 pH	22.69 °C	452.16 µS/cm	6.02 mg/L	12.60 NTU	49.1 mV	45.61 ft	200.00 ml/min
8/25/2022 3:25 PM	15:00	6.95 pH	22.81 °C	452.98 µS/cm	5.88 mg/L	8.98 NTU	61.6 mV	45.61 ft	200.00 ml/min
8/25/2022 3:30 PM	20:00	6.94 pH	22.58 °C	453.83 µS/cm	5.76 mg/L	6.54 NTU	48.1 mV	45.61 ft	200.00 ml/min
8/25/2022 3:35 PM	25:00	6.93 pH	22.54 °C	453.90 µS/cm	5.66 mg/L	5.32 NTU	61.1 mV	45.61 ft	200.00 ml/min
8/25/2022 3:40 PM	30:00	6.93 pH	22.85 °C	456.56 µS/cm	5.65 mg/L	3.96 NTU	46.8 mV	45.61 ft	200.00 ml/min
8/25/2022 3:45 PM	35:00	6.93 pH	22.90 °C	456.33 µS/cm	5.62 mg/L	2.73 NTU	53.8 mV	45.61 ft	200.00 ml/min
8/25/2022 3:50 PM	40:00	6.93 pH	22.74 °C	454.99 µS/cm	5.59 mg/L	1.55 NTU	53.2 mV	45.61 ft	200.00 ml/min
8/25/2022 3:55 PM	45:00	6.93 pH	22.45 °C	455.19 µS/cm	5.58 mg/L	0.67 NTU	45.0 mV	45.61 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 1:26:17 PM
Project: Plant Mitchell CCR (6)
Operator Name: Daniel Howard

Location Name: PZ-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 73.22 ft** **Total Depth: 83.22 ft** **Initial Depth to Water: 31.85 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 78.22 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1408.

Weather Conditions:
Overcast, temp 80F

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	
8/25/2022 1:26 PM	00:00	7.20 pH	25.47 °C	580.78 µS/cm	4.04 mg/L	2.28 NTU	-94.5 mV	31.98 ft	200.00 ml/min
8/25/2022 1:31 PM	05:00	7.17 pH	24.70 °C	515.88 µS/cm	2.02 mg/L	1.83 NTU	-100.0 mV	31.98 ft	200.00 ml/min
8/25/2022 1:36 PM	10:00	7.16 pH	24.49 °C	516.50 µS/cm	1.53 mg/L	3.80 NTU	-114.9 mV	31.98 ft	200.00 ml/min
8/25/2022 1:41 PM	15:00	7.16 pH	24.51 °C	517.32 µS/cm	1.24 mg/L	1.85 NTU	-114.7 mV	31.99 ft	200.00 ml/min
8/25/2022 1:46 PM	20:00	7.16 pH	24.46 °C	517.78 µS/cm	0.97 mg/L	1.03 NTU	-111.0 mV	32.02 ft	200.00 ml/min
8/25/2022 1:51 PM	25:00	7.16 pH	24.34 °C	517.77 µS/cm	0.81 mg/L	0.57 NTU	-108.7 mV	32.02 ft	200.00 ml/min
8/25/2022 1:56 PM	30:00	7.16 pH	24.29 °C	517.32 µS/cm	0.66 mg/L	0.66 NTU	-104.2 mV	32.04 ft	200.00 ml/min
8/25/2022 2:01 PM	35:00	7.16 pH	24.38 °C	517.47 µS/cm	0.56 mg/L	0.46 NTU	-99.0 mV	32.06 ft	200.00 ml/min
8/25/2022 2:06 PM	40:00	7.15 pH	24.48 °C	517.74 µS/cm	0.46 mg/L	0.41 NTU	-94.2 mV	32.06 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 11:45:05 AM
Project: Plant Mitchell CCR (5)
Operator Name: Daniel Howard

Location Name: PZ-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.19 ft** **Total Depth: 53.19 ft** **Initial Depth to Water: 36.3 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 48.19 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1212. Sample ID: MIT-PZ-16-WG-20220825

Weather Conditions:
Overcast, temp 77 F

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	
8/25/2022 11:45 AM	00:00	7.28 pH	22.81 °C	502.97 µS/cm	5.68 mg/L	0.45 NTU	0.7 mV	36.30 ft	200.00 ml/min
8/25/2022 11:50 AM	05:00	7.15 pH	22.62 °C	506.54 µS/cm	2.15 mg/L	0.65 NTU	84.7 mV	36.30 ft	200.00 ml/min
8/25/2022 11:55 AM	10:00	7.14 pH	22.60 °C	494.43 µS/cm	1.88 mg/L	1.30 NTU	127.2 mV	36.30 ft	200.00 ml/min
8/25/2022 12:00 PM	15:00	7.15 pH	22.54 °C	493.70 µS/cm	1.82 mg/L	1.14 NTU	134.3 mV	36.30 ft	200.00 ml/min
8/25/2022 12:05 PM	20:00	7.15 pH	22.53 °C	492.92 µS/cm	1.84 mg/L	1.09 NTU	137.3 mV	36.30 ft	200.00 ml/min
8/25/2022 12:10 PM	25:00	7.14 pH	22.43 °C	492.83 µS/cm	1.84 mg/L	0.92 NTU	104.3 mV	36.30 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 11:38:32 AM
Project: Plant Mitchell CCR (4)
Operator Name: Ever Guillen

Location Name: PZ-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.7 ft** **Total Depth: 62.7 ft** **Initial Depth to Water: 35.03 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 57.7 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: 877800**

Test Notes:
Sample time = 1210

Weather Conditions:
Hot- humid- some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/25/2022 11:38 AM	00:00	7.34 pH	25.74 °C	443.93 µS/cm	7.26 mg/L	31.10 NTU	-78.2 mV	35.03 ft	200.00 ml/min
8/25/2022 11:43 AM	05:00	7.06 pH	22.31 °C	462.63 µS/cm	0.19 mg/L	26.20 NTU	-44.1 mV	35.11 ft	200.00 ml/min
8/25/2022 11:48 AM	10:00	7.06 pH	22.25 °C	464.31 µS/cm	0.11 mg/L	21.40 NTU	-40.0 mV	35.11 ft	200.00 ml/min
8/25/2022 11:53 AM	15:00	7.06 pH	22.22 °C	468.34 µS/cm	0.10 mg/L	16.90 NTU	-36.3 mV	35.11 ft	200.00 ml/min
8/25/2022 11:58 AM	20:00	7.05 pH	22.27 °C	469.30 µS/cm	0.11 mg/L	12.30 NTU	-33.1 mV	35.11 ft	200.00 ml/min
8/25/2022 12:03 PM	25:00	7.04 pH	22.27 °C	472.13 µS/cm	0.11 mg/L	7.18 NTU	-31.0 mV	35.11 ft	200.00 ml/min
8/25/2022 12:08 PM	30:00	7.05 pH	22.05 °C	472.92 µS/cm	0.12 mg/L	4.73 NTU	-29.0 mV	35.11 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 9:42:35 AM
Project: Plant Mitchell CCR (3)
Operator Name: Ever Guillen

Location Name: PZ-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.18 ft** **Total Depth: 63.18 ft** **Initial Depth to Water: 31.51 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 58.18 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time = 1035 . Dup FD-02 collected

Weather Conditions:
Hot-humid- rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/25/2022 9:42 AM	00:00	6.70 pH	24.24 °C	441.05 µS/cm	7.90 mg/L	33.20 NTU	176.7 mV	31.51 ft	200.00 ml/min
8/25/2022 9:47 AM	05:00	6.72 pH	22.75 °C	651.93 µS/cm	0.88 mg/L	27.10 NTU	42.2 mV	31.51 ft	200.00 ml/min
8/25/2022 9:52 AM	10:00	6.80 pH	23.39 °C	634.53 µS/cm	1.79 mg/L	21.30 NTU	30.5 mV	31.51 ft	200.00 ml/min
8/25/2022 9:57 AM	15:00	6.81 pH	23.33 °C	639.42 µS/cm	2.01 mg/L	16.90 NTU	24.9 mV	31.51 ft	200.00 ml/min
8/25/2022 10:02 AM	20:00	6.79 pH	23.08 °C	644.75 µS/cm	0.73 mg/L	11.50 NTU	24.5 mV	31.51 ft	200.00 ml/min
8/25/2022 10:07 AM	25:00	6.77 pH	22.89 °C	647.67 µS/cm	0.20 mg/L	8.79 NTU	32.3 mV	31.51 ft	200.00 ml/min
8/25/2022 10:12 AM	30:00	6.76 pH	23.02 °C	648.95 µS/cm	0.19 mg/L	6.22 NTU	33.1 mV	31.51 ft	200.00 ml/min
8/25/2022 10:17 AM	35:00	6.76 pH	23.08 °C	648.01 µS/cm	0.18 mg/L	5.17 NTU	36.4 mV	31.51 ft	200.00 ml/min
8/25/2022 10:22 AM	40:00	6.76 pH	22.98 °C	648.66 µS/cm	0.19 mg/L	3.98 NTU	36.6 mV	31.51 ft	200.00 ml/min
8/25/2022 10:27 AM	45:00	6.76 pH	22.92 °C	648.81 µS/cm	0.18 mg/L	1.31 NTU	37.1 mV	31.51 ft	200.00 ml/min
8/25/2022 10:32 AM	50:00	6.76 pH	22.99 °C	648.77 µS/cm	0.18 mg/L	0.37 NTU	37.1 mV	31.51 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 10:02:03 AM
Project: Plant Mitchell CCR (4)
Operator Name: Daniel Howard

Location Name: 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: 34.02 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 57.63 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1028. SAMPLE ID: MIT-PZ-19-WG-20220825

Weather Conditions:
Overcast, temp 74F

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	
8/25/2022 10:02 AM	00:00	7.00 pH	23.97 °C	747.53 µS/cm	3.96 mg/L	3.06 NTU	66.5 mV	34.07 ft	200.00 ml/min
8/25/2022 10:07 AM	05:00	6.67 pH	22.75 °C	864.90 µS/cm	0.71 mg/L	0.25 NTU	98.9 mV	34.07 ft	200.00 ml/min
8/25/2022 10:12 AM	10:00	6.67 pH	22.63 °C	861.49 µS/cm	0.38 mg/L	0.62 NTU	127.1 mV	34.07 ft	200.00 ml/min
8/25/2022 10:17 AM	15:00	6.67 pH	22.67 °C	861.18 µS/cm	0.34 mg/L	0.24 NTU	127.0 mV	34.07 ft	200.00 ml/min
8/25/2022 10:22 AM	20:00	6.67 pH	22.69 °C	863.79 µS/cm	0.35 mg/L	0.22 NTU	98.4 mV	34.07 ft	200.00 ml/min
8/25/2022 10:27 AM	25:00	6.67 pH	22.68 °C	858.98 µS/cm	0.37 mg/L	0.15 NTU	124.1 mV	34.07 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/25/2022 3:42:03 PM
Project: Plant Mitchell CCR (8)
Operator Name: Daniel Howard

Location Name: PZ-23A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.21 ft** **Total Depth: 67.21 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 62.21 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes: Sample time 1608

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	
8/25/2022 3:42 PM	00:00	6.76 pH	26.26 °C	763.12 µS/cm	2.23 mg/L	8.31 NTU	93.0 mV	53.22 ft	200.00 ml/min
8/25/2022 3:47 PM	05:00	6.76 pH	24.52 °C	732.91 µS/cm	2.23 mg/L	7.18 NTU	93.8 mV	53.22 ft	200.00 ml/min
8/25/2022 3:52 PM	10:00	6.76 pH	24.37 °C	724.45 µS/cm	2.20 mg/L	6.25 NTU	128.8 mV	53.22 ft	200.00 ml/min
8/25/2022 3:57 PM	15:00	6.76 pH	24.23 °C	724.96 µS/cm	2.16 mg/L	3.53 NTU	131.9 mV	53.20 ft	200.00 ml/min
8/25/2022 4:02 PM	20:00	6.76 pH	24.35 °C	722.87 µS/cm	2.10 mg/L	2.94 NTU	132.8 mV	53.20 ft	200.00 ml/min
8/25/2022 4:07 PM	25:00	6.76 pH	24.44 °C	728.37 µS/cm	2.08 mg/L	2.52 NTU	96.3 mV	53.18 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2022 3:19:00 PM
Project: Plant Mitchell CCR (3)
Operator Name: Daniel Howard

Location Name: PZ-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 32.83 ft**	**Pump Type: QED Dedicated Bladder Pump** **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: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1545. Sample ID: MIT-PZ-25-WG-20220824.

Weather Conditions:
Overcast, temp 85 F

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	
8/24/2022 3:19 PM	00:00	7.21 pH	25.65 °C	463.44 µS/cm	5.62 mg/L	1.16 NTU	-25.1 mV	32.91 ft	200.00 ml/min
8/24/2022 3:24 PM	05:00	7.10 pH	24.02 °C	466.15 µS/cm	2.34 mg/L	1.78 NTU	-32.9 mV	32.92 ft	200.00 ml/min
8/24/2022 3:29 PM	10:00	7.10 pH	23.82 °C	466.89 µS/cm	0.65 mg/L	3.48 NTU	-47.8 mV	32.92 ft	200.00 ml/min
8/24/2022 3:34 PM	15:00	7.10 pH	23.88 °C	467.03 µS/cm	0.62 mg/L	2.80 NTU	-71.5 mV	32.92 ft	200.00 ml/min
8/24/2022 3:39 PM	20:00	7.10 pH	23.97 °C	466.31 µS/cm	0.59 mg/L	1.12 NTU	-40.9 mV	32.92 ft	200.00 ml/min
8/24/2022 3:44 PM	25:00	7.10 pH	24.01 °C	466.70 µS/cm	0.57 mg/L	1.40 NTU	-71.5 mV	32.93 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2022 1:20:32 PM
Project: Plant Mitchell CCR
Operator Name: Ever Guillen

Location Name: PZ-31 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.6 ft** **Total Depth: 61.6 ft** **Initial Depth to Water: 41.67 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 56.6 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time= 1400

Weather Conditions:
Hot- humid- some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/24/2022 1:20 PM	00:00	7.69 pH	26.09 °C	273.27 µS/cm	7.93 mg/L	24.60 NTU	43.5 mV	41.91 ft	200.00 ml/min
8/24/2022 1:25 PM	05:00	7.05 pH	21.71 °C	445.73 µS/cm	5.60 mg/L	17.10 NTU	38.1 mV	42.91 ft	200.00 ml/min
8/24/2022 1:30 PM	10:00	7.04 pH	21.61 °C	427.18 µS/cm	5.25 mg/L	14.30 NTU	40.0 mV	42.91 ft	200.00 ml/min
8/24/2022 1:35 PM	15:00	7.05 pH	21.56 °C	445.78 µS/cm	5.44 mg/L	10.70 NTU	38.0 mV	42.91 ft	200.00 ml/min
8/24/2022 1:40 PM	20:00	7.05 pH	21.50 °C	443.94 µS/cm	5.16 mg/L	7.29 NTU	42.5 mV	42.91 ft	200.00 ml/min
8/24/2022 1:45 PM	25:00	7.04 pH	21.42 °C	443.93 µS/cm	5.05 mg/L	5.33 NTU	44.6 mV	42.91 ft	200.00 ml/min
8/24/2022 1:50 PM	30:00	7.03 pH	21.33 °C	443.97 µS/cm	4.96 mg/L	3.17 NTU	43.0 mV	42.91 ft	200.00 ml/min
8/24/2022 1:55 PM	35:00	7.04 pH	21.20 °C	437.37 µS/cm	4.96 mg/L	1.03 NTU	42.7 mV	42.91 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2022 1:33:51 PM
Project: Plant Mitchell CCR (2)
Operator Name: Daniel Howard

Location Name: 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: 40.64 ft**	**Pump Type: QED Dedicated Bladder Pump** **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: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1410. Sample ID: MIT-PZ32-WG-20220824.

Weather Conditions:
Overcast, 83F

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	
8/24/2022 1:33 PM	00:00	7.35 pH	21.82 °C	342.36 µS/cm	2.95 mg/L	1.07 NTU	41.0 mV	40.68 ft	200.00 ml/min
8/24/2022 1:38 PM	05:00	7.33 pH	21.23 °C	337.70 µS/cm	2.76 mg/L	0.39 NTU	62.1 mV	40.68 ft	200.00 ml/min
8/24/2022 1:43 PM	10:00	7.33 pH	21.11 °C	332.74 µS/cm	2.59 mg/L	0.35 NTU	86.9 mV	40.68 ft	200.00 ml/min
8/24/2022 1:48 PM	15:00	7.34 pH	20.95 °C	331.62 µS/cm	2.38 mg/L	0.49 NTU	91.0 mV	40.68 ft	200.00 ml/min
8/24/2022 1:53 PM	20:00	7.34 pH	20.99 °C	331.33 µS/cm	2.26 mg/L	0.20 NTU	91.6 mV	40.68 ft	200.00 ml/min
8/24/2022 1:58 PM	25:00	7.33 pH	20.85 °C	330.94 µS/cm	2.11 mg/L	0.22 NTU	92.5 mV	40.68 ft	200.00 ml/min
8/24/2022 2:03 PM	30:00	7.33 pH	20.95 °C	329.59 µS/cm	2.02 mg/L	0.22 NTU	91.8 mV	40.68 ft	200.00 ml/min
8/24/2022 2:08 PM	35:00	7.34 pH	20.76 °C	330.19 µS/cm	1.97 mg/L	0.15 NTU	91.3 mV	40.68 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/24/2022 3:10:47 PM
Project: Plant Mitchell CCR (2)
Operator Name: Ever Guillen

Location Name: PZ-33 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 63.6 ft** **Total Depth: 73.6 ft** **Initial Depth to Water: 51.49 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 68.6 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes:
Sample time = 1545

Weather Conditions:
Hot-humid-some rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.1	+/- 5	+/- 10	+/- 0.3	
8/24/2022 3:10 PM	00:00	7.15 pH	23.97 °C	458.72 µS/cm	2.82 mg/L	24.10 NTU	-8.8 mV	52.71 ft	200.00 ml/min
8/24/2022 3:15 PM	05:00	7.12 pH	23.39 °C	463.28 µS/cm	1.02 mg/L	20.30 NTU	13.9 mV	52.71 ft	200.00 ml/min
8/24/2022 3:20 PM	10:00	7.11 pH	23.21 °C	462.87 µS/cm	0.53 mg/L	16.90 NTU	22.0 mV	52.71 ft	200.00 ml/min
8/24/2022 3:25 PM	15:00	7.11 pH	23.08 °C	461.38 µS/cm	0.31 mg/L	12.10 NTU	27.3 mV	52.71 ft	200.00 ml/min
8/24/2022 3:30 PM	20:00	7.10 pH	23.34 °C	463.17 µS/cm	0.25 mg/L	8.72 NTU	30.6 mV	52.71 ft	200.00 ml/min
8/24/2022 3:35 PM	25:00	7.10 pH	23.32 °C	461.57 µS/cm	0.20 mg/L	5.39 NTU	32.9 mV	52.71 ft	200.00 ml/min
8/24/2022 3:40 PM	30:00	7.10 pH	23.52 °C	463.96 µS/cm	0.19 mg/L	3.07 NTU	35.8 mV	52.71 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/26/2022 10:42:59 AM
Project: Plant Mitchell CCR (9)
Operator Name: Daniel Howard

Location Name: 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: 30.82 ft**	**Pump Type: Sample Pro Bladder pump** **Tubing Type: HDPE** **Pump Intake From TOC: 68.4 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884186**

Test Notes:
Sample time 1120. Sample ID: MIT-PZ-57-WG-20220826.

Weather Conditions:
Partly cloudy, 77F

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	
8/26/2022 10:42 AM	00:00	7.09 pH	23.53 °C	614.03 µS/cm	0.78 mg/L	14.10 NTU	69.3 mV	31.14 ft	200.00 ml/min
8/26/2022 10:47 AM	05:00	7.09 pH	23.61 °C	583.90 µS/cm	0.50 mg/L	18.90 NTU	51.0 mV	31.14 ft	200.00 ml/min
8/26/2022 10:52 AM	10:00	7.08 pH	23.79 °C	584.94 µS/cm	0.42 mg/L	15.60 NTU	37.0 mV	31.14 ft	200.00 ml/min
8/26/2022 10:57 AM	15:00	7.09 pH	23.66 °C	582.04 µS/cm	0.36 mg/L	15.70 NTU	30.8 mV	31.14 ft	200.00 ml/min
8/26/2022 11:02 AM	20:00	7.09 pH	23.70 °C	582.62 µS/cm	0.32 mg/L	11.40 NTU	29.6 mV	31.14 ft	200.00 ml/min
8/26/2022 11:07 AM	25:00	7.09 pH	23.64 °C	582.05 µS/cm	0.29 mg/L	9.14 NTU	25.1 mV	31.14 ft	200.00 ml/min
8/26/2022 11:12 AM	30:00	7.09 pH	23.60 °C	581.39 µS/cm	0.25 mg/L	4.99 NTU	40.0 mV	31.14 ft	200.00 ml/min
8/26/2022 11:17 AM	35:00	7.09 pH	23.60 °C	583.06 µS/cm	0.21 mg/L	2.37 NTU	50.3 mV	31.14 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 10/11/2022 2:54:04 PM
Project: Plant Mitchell (3)
Operator Name: Ever Guillen

Location Name: PZ-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52 ft** **Total Depth: 62 ft** **Initial Depth to Water: 34.32 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 62 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
Sample time = 1540

Weather Conditions:
Clear-hot-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	
10/11/2022 2:54 PM	00:00	7.23 pH	29.08 °C	380.40 µS/cm	2.83 mg/L	7.93 NTU	-45.7 mV	34.32 ft	200.00 ml/min
10/11/2022 2:59 PM	05:00	7.12 pH	25.18 °C	388.54 µS/cm	0.55 mg/L	7.22 NTU	-118.7 mV	34.76 ft	200.00 ml/min
10/11/2022 3:04 PM	10:00	7.13 pH	25.04 °C	387.60 µS/cm	0.29 mg/L	5.72 NTU	-126.3 mV	34.76 ft	200.00 ml/min
10/11/2022 3:09 PM	15:00	7.13 pH	24.86 °C	390.04 µS/cm	0.25 mg/L	4.37 NTU	-129.4 mV	34.76 ft	200.00 ml/min
10/11/2022 3:14 PM	20:00	7.13 pH	24.55 °C	387.33 µS/cm	0.24 mg/L	3.39 NTU	-129.2 mV	34.76 ft	200.00 ml/min
10/11/2022 3:19 PM	25:00	7.13 pH	24.54 °C	388.33 µS/cm	0.23 mg/L	1.88 NTU	-145.9 mV	34.76 ft	200.00 ml/min
10/11/2022 3:24 PM	30:00	7.14 pH	24.96 °C	389.38 µS/cm	0.23 mg/L	1.22 NTU	-133.2 mV	34.76 ft	200.00 ml/min
10/11/2022 3:29 PM	35:00	7.14 pH	25.07 °C	390.08 µS/cm	0.22 mg/L	0.87 NTU	-134.0 mV	34.76 ft	200.00 ml/min
10/11/2022 3:34 PM	40:00	7.13 pH	24.86 °C	388.97 µS/cm	0.22 mg/L	1.03 NTU	-133.9 mV	34.76 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 10/11/2022 12:37:05 PM
Project: Plant Mitchell (2)
Operator Name: Ever Guillen

Location Name: PZ-32 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60 ft** **Total Depth: 70 ft** **Initial Depth to Water: 41.63 ft**	**Pump Type: QED** **Tubing Type: HDPE** **Pump Intake From TOC: 65 ft** **Estimated Total Volume Pumped: 7000 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: 843285**

Test Notes:
Sample time = 1315

Weather Conditions:
Cool-cloudy-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	
10/11/2022 12:37 PM	00:00	7.70 pH	23.71 °C	252.44 µS/cm	8.63 mg/L	4.33 NTU	83.0 mV	41.63 ft	200.00 ml/min
10/11/2022 12:42 PM	05:00	7.42 pH	20.59 °C	274.70 µS/cm	1.50 mg/L	3.38 NTU	19.0 mV	41.78 ft	200.00 ml/min
10/11/2022 12:47 PM	10:00	7.39 pH	20.82 °C	274.20 µS/cm	1.53 mg/L	2.96 NTU	36.5 mV	41.78 ft	200.00 ml/min
10/11/2022 12:52 PM	15:00	7.39 pH	20.86 °C	271.27 µS/cm	1.34 mg/L	2.21 NTU	39.2 mV	41.79 ft	200.00 ml/min
10/11/2022 12:57 PM	20:00	7.38 pH	21.09 °C	272.69 µS/cm	1.33 mg/L	1.38 NTU	41.7 mV	41.79 ft	200.00 ml/min
10/11/2022 1:02 PM	25:00	7.39 pH	21.15 °C	272.30 µS/cm	1.34 mg/L	1.10 NTU	43.2 mV	41.79 ft	200.00 ml/min
10/11/2022 1:07 PM	30:00	7.39 pH	21.34 °C	271.44 µS/cm	1.40 mg/L	0.98 NTU	44.4 mV	41.79 ft	200.00 ml/min
10/11/2022 1:12 PM	35:00	7.37 pH	21.18 °C	271.22 µS/cm	1.48 mg/L	0.94 NTU	45.8 mV	41.79 ft	200.00 ml/min

Samples

Sample ID:	Description:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-APA12-EB-01-WQ-20220826 MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Pour over pump

DUP./REP. OF: —

Pump Intake Set at (btoc): —

or

Tubing Inlet Set at (btoc): —

WELL DIAMETER: —

DEPTH TO WATER: —

TOTAL DEPTH: —

WATER COLUMN HEIGHT: _____

PURGE VOLUME: —

GRAB (x) COMPOSITE ( )

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs. Pump ID 1293

Turbidity ≤ 5 NTUs QED Sample Pro Bladder pump use to sample well PZ-57

Used Deionized ASTM Type I water (Chem World 7732-18-5)

SAMPLE DATE : 8/26/22

SAMPLE TIME : 0915

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	1 <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	1 <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION			
WEATHER:	Partly Cloudy, Temp 75°F		
SHIPPED VIA:	FED-X		
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)		
SAMPLER:	Daniel Howard	OBSERVER:	

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-APA12-FB-01-WQ-20220824

MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Direct Pour

DUP./REP. OF: —

WELL DIAMETER: —

DEPTH TO WATER: —

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: —

Pump Intake Set at (btoc): —

or

Tubing Inlet Set at (btoc): —

WATER COLUMN HEIGHT: —

PURGE VOLUME: —

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs Deionized Type I ASTM water Chem World 1732-18-5

SAMPLE DATE : 8/24/22

SAMPLE TIME : 1000

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH Check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	<2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	<2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast chance of rain	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-1D-WG-202208 24

MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow Dedicated Bladder Pump

WELL DIAMETER: 2"

DUP./REP. OF: FD-001

DEPTH TO WATER: 55.07

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: ~~DH 61.24~~ 81.65 DH

Pump Intake Set at (btoc): ~~DH 56.24~~ 76.65

WATER COLUMN HEIGHT: ~~61.24 - 55.07 = 1.04 x 3 = 3.13 DH~~ 26.58

or

PURGE VOLUME: ~~3.13 DH~~

Tubing Inlet Set at (btoc): —

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

	TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
0.0	Initial: 1048 ~~1000~~	0.25	6.42	84.5	7.05	249.84	24.09	33.6	200 ( )	55.07
5.0	1053 ~~1010~~	0.5	2.67	39.9	7.37	244.55	22.19	29.4	200	56.52
10	1058 ~~1020~~	0.75	3.17	34.4	7.43	250.98	23.97	23.1	200	56.63
15	1103 ~~1030~~	1.0	3.27	29.6	7.45	248.72	25.24	17.5	200	56.63
20	1108 ~~1040~~	1.25	2.86	26.9	7.47	248.87	25.93	13.9	200	56.61
25	1113 ~~1050~~	1.5	2.60	27.0	7.46	~~254.9~~ 246.85	25.97	8.80	200	56.61
30	1118 ~~1100~~	1.75	2.59	26.5	7.47	245.88	25.96	6.53	200	56.61
35	1123 ~~1110~~	2.0	2.56	25.2	7.49	247.87	25.81	5.44	200	56.61
40	1128 —	2.25	2.53	25.9	7.48	248.03	26.19	5.12	200	56.61
45	1133 —	2.5	2.61	26.9	7.49	248.17	26.33	3.90	200	56.61
	1135	Collect	Sample							

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs PRESERVED SAMPLES PH = <2.0

Collected duplicate sample: ~~AR~~ MIT-APA12-FD-001-WG-20220824

SAMPLE DATE: 8-24-22

SAMPLE TIME: 1135

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	HOT-HUMID-SOME RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: EVER GUILLEN		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-2D-WG-202208 24

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder Pump (low flow)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 75.95

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: ~~38.62~~ 38.56 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 80.95

WATER COLUMN HEIGHT: 42.39

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1101	0	1.62	60.8	7.73	150.23	21.06	2.52	200 ( )	38.66
1106	0.25	2.22	63.6	7.95	159.47	20.62	2.56	200	38.66
1111	0.5	2.67	81.6	7.98	162.45	20.54	1.53	200	38.66
1116	0.75	2.83	62.8	7.98	162.43	20.59	1.74	200	38.66
1121	1.0	2.93	80.9	7.98	163.02	20.62	1.46	200	38.66
1126	1.25	3.02	61.4	8.00	162.43	20.63	1.44	200	38.66
1131	1.5	3.07	79.6	8.01	163.03	20.64	1.51	200	38.66

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/24/22

SAMPLE TIME : 1132

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE / pH Check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2 / <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2 / <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast, Slight Rain 75°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-7D-WG-202208 25

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (DEDICATED BLADDER PUMP)

WELL DIAMETER: 2"

DUP./REP. OF:_____

DEPTH TO WATER: 34.92

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 60.37

Pump Intake Set at (btoc): 55.37

or

WATER COLUMN HEIGHT: 25.45 X 0.17 = 4.32 X 3 = 12.97

PURGE VOLUME: 12.97

Tubing Inlet Set at (btoc):_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1323 0.0	0.1	3.37	-30.9	7.13	480.27	23.81	28.1	200( )	34.92
1325 1151	0.15	1.34	6.0	6.99	495.17	22.08	28.7	200	34.92
1330 1651	0.25	0.94	22.7	6.98	504.90	22.27	23.6	200	34.95
1335 1151	0.50	1.39	19.5	6.99	496.35	24.65	16.9	200	34.95
1340 1651	0.75	1.63	26.3	7.00	499.53	25.51	10.7	200	34.95
1345 2151	1.0	1.06	34.0	7.01	475.39	22.18	6.06	200	34.95
1350 2651	1.25	0.99	35.8	6.98	485.15	21.85	5.02	200	34.95
1355 3151	1.5	0.90	41.9	6.98	486.70	21.82	3.98	200	34.95
1400 3651	1.75	0.87	43.6	6.98	486.80	21.82	2.66	200	34.95
1405 4151	2.0	0.83	38.2	6.98	486.05	21.73	1.73	200	34.95
1410 Collect		Sample							

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

PRESERVED SAMPLES PH = < 2.0

SAMPLE DATE : 8-25-22

SAMPLE TIME : 1410

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - SOME RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	EVER GUILLEN	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-14-WG-202208 25"

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow (Dedicated Bladder Pump)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 48.20'

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2"

DEPTH TO WATER: 45.55

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 53.20

WATER COLUMN HEIGHT: 7.65 x 0.17 = 1.30 x 3 = 3.90

PURGE VOLUME: 3.90

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1510 0.0	0.1	6.99	42.0	7.45	302.21	29.75	21.1	200 ( )	45.61
1515 5.0	0.25	6.03	62.5	6.95	452.77	23.08	17.3	200	45.61
1520 10.0	0.50	6.02	49.1	6.95	452.16	22.69	12.6	200	45.61
1525 15.0	0.75	5.88	61.6	6.95	452.98	22.81	8.98	200	45.61
1530 20.0	1.0	5.76	48.1	6.94	453.83	22.58	6.54	200	45.61
1535 25.0	1.25	5.66	61.1	6.93	453.90	22.54	5.32	200	45.61
1540 30.0	1.5	5.65	46.8	6.93	456.56	22.85	3.96	200	45.61
1545 35.0	1.75	5.62	53.8	6.93	456.33	22.90	2.73	200	45.61
1550 40.0	2.0	5.59	53.2	6.93	454.99	22.74	1.55	200	45.61
1555 45.0	2.25	5.58	45.0	6.93	455.19	22.45	0.67	200	45.61
1600	Collect	Sample							

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

Preserved Samples pH = < 2.0

SAMPLE DATE : 8-25-22

SAMPLE TIME : _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Hot - Humid - Some Rain	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Ever Guillen		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-15-WG-20220825

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder pump (low flow)

DUP./REP. OF:_____

WELL DIAMETER: 2

DEPTH TO WATER: 31.85

TOTAL DEPTH: 83.22

GRAB (x) COMPOSITE ( )

Pump Intake Set at (btoc): 78.22

or

Tubing Inlet Set at (btoc):_____

WATER COLUMN HEIGHT: 51.37

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1326	0	4.04	-94.5	7.20	580.78	25.47	2.28	200 ( )	31.98
1331	0.25	2.02	-100.0	7.17	515.88	24.70	1.83	200	31.98
1336	0.5	1.53	-114.9	7.16	516.50	24.49	3.80	200	31.98
1341	0.75	1.24	-114.7	7.16	517.32	24.51	1.85	200	31.99
1346	1.0	0.97	-111.0	7.16	517.78	24.46	1.03	200	32.02
1351	1.25	0.81	-108.7	7.16	517.77	24.34	0.57	200	32.02
1356	1.50	0.66	-104.2	7.16	517.32	24.29	0.66	200	32.04
1401	1.75	0.48	-99.0	7.16	517.47	24.38	0.46	200	32.06
1406	2.0	0.41	-94.2	7.15	517.74	24.48	0.41	200	32.06

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/25/22

SAMPLE TIME : 1408

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2 (pH check <2)	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2 (<2)	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 80°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Daniel Howard	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-16-WG-20220825

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder pump (low flow)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 48.19

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 36.38

TOTAL DEPTH: 53.19

WATER COLUMN HEIGHT: 16.89

PURGE VOLUME:_____

GRAB (x) COMPOSITE ( )

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1145	0	5.68	0.7	7.28	502.97	22.81	0.45	200 ( )	36.38
1150	0.25	2.15	84.7	7.15	506.54	22.62	0.65	200	36.38
1155	0.5	1.88	127.2	7.14	494.43	22.60	1.30	200	36.38
1200	0.25	1.82	134.3	7.15	493.70	22.54	1.14	200	36.38
1205	1.0	1.84	137.3	7.15	492.92	22.53	1.09	200	36.38
1210	1.25	1.84	104.3	7.14	492.83	22.43	0.92	200	36.38

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/25/22

SAMPLE TIME : 1212

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
		pH check		
250 mL/Poly	1	HNO3 to pH <2 | <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2 | <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 77°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501; nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-17-WG-202208_25
MATRIX: Groundwater
WELL MATERIAL: ✓PVC __ SS __ OTHER
SAMPLE METHOD: Low Flow (Dedicated Bladder Pump)
WELL DIAMETER: 2"
DUP./REP. OF:_____
DEPTH TO WATER: 35.03
GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 62.70
Pump Intake Set at (btoc): 57.70
WATER COLUMN HEIGHT: ~~27.67~~ 27.67 x 0.17 = 4.70 x 3 = 14.11
or
PURGE VOLUME: 14.11
Tubing Inlet Set at (btoc):_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1138 0.0	0.1	7.26	-78.2	7.34	443.93	25.74	31.1	200 ( )	35.03
1143 5.0	0.25	0.19	-44.1	7.06	462.63	22.31	26.2	200	35.11
1148 10.0	0.50	0.11	-40.0	7.06	464.31	22.25	21.4	200	35.11
1153 15.0	0.75	0.10	-36.3	7.06	468.34	22.22	16.9	200	35.11
1158 20.0	1.0	0.11	-33.1	7.05	469.30	22.27	12.3	200	35.11
1203 25.0	1.25	0.11	-31.0	7.04	472.13	22.27	7.18	200	35.11
1208 30.0	1.50	0.12	-29.0	7.05	472.92	22.05	4.73	200	35.11
1210	Collect Sample								

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs
PRESERVED SAMPLES PH = <2.0

SAMPLE DATE : 8-25-22
SAMPLE TIME : 1210

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Hot-Humid-Some Rain	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Ever Guillen	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-18-WG-202208_25_ MATRIX: Groundwater
WELL MATERIAL: X PVC __ SS __ OTHER
SAMPLE METHOD: Low Flow (DEDICATED BLADDER PUMP)
WELL DIAMETER: 2"
DUP./REP. OF: MIT-APA12-FD002-WG-20220825 DEPTH TO WATER: 31.51 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 63.18
Pump Intake Set at (btoc): 58.18'
or
Tubing Inlet Set at (btoc): ___
WATER COLUMN HEIGHT: 31.67 X 0.17 = 5.38 X 16.14
PURGE VOLUME: 16.14
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 942 0.0	0.1	7.90	176.7	6.70	441.05	24.24	33.2	200 ( )	31.51
947 5.0	0.25	0.88	42.2	6.72	651.93	22.75	27.1	200	31.51
952 10.0	0.50	1.79	30.5	6.80	634.53	23.39	21.3	200	31.51
957 15.0	0.75	2.01	24.9	6.81	639.42	23.33	16.9	200	31.51
1002 20.0	1.0	0.73	24.5	6.79	644.75	23.08	11.5	200	31.51
1007 25.0	1.25	0.20	32.3	6.77	647.67	22.89	8.79	200	31.51
1012 30.0	1.5	0.19	33.1	6.76	648.95	23.02	6.22	200	31.51
1017 35.0	1.75	0.18	36.4	6.76	648.01	23.08	5.17	200	31.51
1022 40.0	2.0	0.19	36.6	6.76	348.66	22.98	3.98	200	31.51
1027 45.0	2.25	0.18	37.1	6.76	348.81	22.92	1.31	200	31.51
1032 50.0	2.5	0.18	37.1	6.76	348.77	22.99	0.37	200	31.51
1035	Collect	Sample							

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs Collected duplicate sample FD-002
PRESERVED SAMPLES PH = < 2.0

SAMPLE DATE : 8-25-22
SAMPLE TIME : 1035

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	EVER GUILLEN	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-19-WG-202208_25 MATRIX: Groundwater
WELL MATERIAL: X PVC __ SS __ OTHER
SAMPLE METHOD: QED Dedicated Bladder pump (low flow)
DUP./REP. OF:_____

Pump Intake Set at (btoc): 57.63
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2
DEPTH TO WATER: 34.02 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 62.63
WATER COLUMN HEIGHT: 28.61
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1002	0	3.96	66.5	7.00	747.53	23.97	3.06	200( )	34.07
1007	0.25	0.71	98.9	6.67	864.90	22.75	0.25	200	34.07
1012	0.50	0.38	127.1	6.67	861.49	22.63	0.62	200	34.07
1017	0.75	0.34	127.0	6.67	861.18	22.67	0.24	200	34.07
1022	1.0	0.35	98.4	6.67	863.79	22.69	0.22	200	34.07
1027	1.25	0.37	124.1	6.67	858.98	22.68	0.15	200	34.07

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/25/22
SAMPLE TIME : 1025

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	<2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	<2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast, Chance of rain Temp 74°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Daniel Howard	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-23A-WG-202208 2.5 MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder Pump (low flow)

DUP./REP. OF: _____

Pump Intake Set at (btoc): ~~58.60~~ DW 62.21

or

Tubing Inlet Set at (btoc): _____

WELL DIAMETER: 2

DEPTH TO WATER: 52.89 GRAB (x) COMPOSITE ( )

TOTAL DEPTH: ~~63.60~~ DW 67.21

WATER COLUMN HEIGHT: 14.32

PURGE VOLUME: _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1541	0	2.23	93.0	6.76	763.12	26.26	8.31	200	~~53~~ 52.22
1546	0.5	2.23	93.8	6.76	732.91	24.52	7.18	200	~~53~~ 52.22
1551	~~0~~ 0.5	2.20	128.8	6.76	724.45	24.37	6.25	200	~~53~~ 52.22
1556	0.75	2.16	131.9	6.76	724.96	24.23	4.53	200	~~53~~ 52.20
1601	1.0	2.10	132.8	6.76	722.87	24.35	2.94	200	~~53~~ 52.20
1606	1.25	2.08	96.3	6.76	728.37	24.44	2.52	200	~~53~~ 52.18

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/25/22
SAMPLE TIME : 1608

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	<2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	<2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION			
WEATHER:	Overcast, Temp 82°F		
SHIPPED VIA:	FED-X		
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)		
SAMPLER:	Daniel Howard	OBSERVER:	

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-25-WG-20220824

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder Pump (low flow)

DUP./REP. OF:_____

WELL DIAMETER: 2

DEPTH TO WATER: 32.83

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 63.19

Pump Intake Set at (btoc): 58.19

WATER COLUMN HEIGHT: 30.36

or

PURGE VOLUME:_____

Tubing Inlet Set at (btoc):_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1519	0	5.62	-25.1	7.21	463.44	25.65	1.16	200 ( )	32.91
1524	0.25	2.34	-32.9	7.10	466.15	24.02	1.78	200	32.92
1529	0.5	0.65	-47.8	7.10	466.89	23.82	3.48	200	32.92
1534	0.75	0.62	-71.5	7.10	467.03	23.88	2.80	200	32.92
1539	1.0	0.59	-40.9	7.10	466.31	23.97	1.12	200	32.92
1544	1.25	0.57	-71.5	7.10	466.70	24.01	1.40	200	32.93

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/24/22

SAMPLE TIME : 1545

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	< 2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	< 2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Overcast, Temp 85°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Daniel Howard	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-31-WG-202208_24

MATRIX: Groundwater

WELL MATERIAL: ✓PVC __SS __OTHER

SAMPLE METHOD: Low Flow (DEDICATED BLADDER PUMP)

WELL DIAMETER: 2"

DUP./REP. OF:_____

DEPTH TO WATER: 41.67

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: 61.60

Pump Intake Set at (btoc): 56.01

WATER COLUMN HEIGHT: 19.93 x 0.17 = 3.38 x 3 = 10.16

or

PURGE VOLUME: 10.16

Tubing Inlet Set at (btoc):_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1320 0.0	0.1	7.93	43.5	7.69	273.27	26.09	24.6	200 ( )	42.91
1325 5.0	0.25	5.60	38.1	7.05	445.73	21.71	17.1	200	42.91
1330 10.0	0.25	5.25	40.0	7.04	427.18	21.61	14.3	200	42.91
1335 15.0	1.0	5.44	38.0	7.05	445.78	21.56	10.7	200	42.91
1340 20.0	1.25	5.16	42.5	7.05	443.94	21.50	7.29	200	42.91
1345 25.0	1.5	5.05	44.6	7.04	443.93	21.42	5.33	200	42.91
1350 30.0	1.75	4.96	43.0	7.03	443.97	21.33	3.17	200	42.91
1355 35.0	2.0	4.96	42.7	7.04	437.37	21.20	1.03	200	42.91
1400 Collect	Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

PRESERVED SAMPLES PH = < 2.0

SAMPLE DATE : 1400 8-24-22

SAMPLE TIME : 1400

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - SOME RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: EVER GUILLEN		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-32-WG-202208 24

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: QED Dedicated Bladder pump (lowflow)

DUP./REP. OF:_____

Pump Intake Set at (btoc): 60.30

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: 2

DEPTH TO WATER: 40.64

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: ~~64.6~~ 65.30

WATER COLUMN HEIGHT: 24.66

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1333	0	2.95	41.0	7.35	342.36	21.82	1.07	200 ( )	40.68
1338	0.25	1.76	62.1	7.33	337.70	21.23	0.39	200	40.68
1343	0.5	2.59	86.9	7.33	332.74	21.11	0.35	200	40.68
1348	0.75	2.38	91.0	7.34	331.62	20.95	0.49	200	40.68
1353	1.0	2.26	91.0	7.34	331.33	20.99	0.20	200	40.68
1358	1.25	2.11	92.5	7.33	330.94	20.85	0.22	200	40.68
1403	1.50	2.02	91.8	7.33	329.59	20.95	0.22	200	40.68
1408	1.75	1.97	91.3	7.34	330.19	20.76	0.15	200	40.68

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/24/22

SAMPLE TIME : 1410

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	pH check	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	< 2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C		EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C		SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	< 2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION			
WEATHER:	Overcast, Temp 83°F		
SHIPPED VIA:	FED-X		
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)		
SAMPLER:	Daniel Howard	OBSERVER:	

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-33-WG-202208_24
MATRIX: Groundwater
WELL MATERIAL: PVC __ SS __ OTHER
SAMPLE METHOD: Low Flow (Dedicated Bladder Pump)

WELL DIAMETER: 2"
DUP./REP. OF:_____
DEPTH TO WATER: 57.49
GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 73.60
Pump Intake Set at (btoc): 68.60
WATER COLUMN HEIGHT: 22.11 X .17 = 3.75 X 3 = 11.27
or
PURGE VOLUME: 11.27
Tubing Inlet Set at (btoc):_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1510 0.0	0.1	2.82	-8.8	7.15	458.72	23.97	24.1	200 ( )	52.71
1515 5.0	0.25	1.02	13.9	7.12	463.28	23.39	20.3	200	52.71
1520 10.0	0.50	0.53	22.0	7.11	462.87	23.21	16.9	200	52.71
1525 15.0	0.75	0.31 ~~0.25~~	27.3	7.11	461.38	23.08	12.1	200	52.71
1530 20.0	1.0	0.25	30.6	7.10	463.17	23.34	8.72	200	52.71
1535 25.0	1.25	0.20	32.9	7.10	461.57	23.32	5.39	200	52.71
1540 30.0	1.5	0.19	35.8	7.10	463.96	23.52	3.07	200	52.71
1545	Collect Sample								

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs
PRESERVED SAMPLES PH = < 2.0

SAMPLE DATE : 8-24-22
SAMPLE TIME : 1545

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - SOME RAIN	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: EVER GUILLEN		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2; ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-57-WG-202208 26

MATRIX: Groundwater

WELL MATERIAL: X PVC __ SS __ OTHER

SAMPLE METHOD: Sample Pro Bladder pump (low flow)

DUP./REP. OF: _____

Pump Intake Set at (btoc): 68.4

or

Tubing Inlet Set at (btoc): _____

WELL DIAMETER: 2

DEPTH TO WATER: 30.82

TOTAL DEPTH: 73.39

WATER COLUMN HEIGHT: 42.57

PURGE VOLUME: _____

GRAB (x) COMPOSITE ( )

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1043	0	0.78	69.3	7.09	614.03	25.53	14.1	200 ( )	31.14
1048	0.25	0.50	51.0	7.09	583.90	23.61	18.9	200	31.14
1053	0.5	0.42	37.0	7.08	584.94	23.79	15.6	200	31.14
1058	0.75	0.36	30.8	7.09	582.04	23.66	15.7	200	31.14
1103	1.0	0.32	29.6	7.09	582.62	23.70	11.4	200	31.14
1108	1.25	0.29	25.1	7.09	582.05	23.64	9.14	200	31.14
1113	1.5	0.25	40.0	7.09	581.39	23.60	4.99	200	31.14
1118	1.75	0.21	50.3	7.09	583.06	23.60	2.37	200	31.14

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 8/26/22

SAMPLE TIME : 1120

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
		pH check		
250 mL/Poly	1	HNO3 to pH <2 1<2	SW6010D/SW6020B/SW7470A	App. III & IV Metals
250 mL/Poly	1	Cool to 6°C	EPA 300.0 R2.1	App. III Anions
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS
1 L/Poly	2	HNO3 to pH <2 1<2	EPA 9315/9320	Radium 226 & 228 Combined

GENERAL INFORMATION		
WEATHER:	Partly Cloudy, Temp 77°F	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ **2022 Semi-Annual Event 2 (RESAMPLE);** ___ OTHER

WELL ID / SAMPLE ID: MIT-APA12-EB-01-WQ-202210 11 **MATRIX:** Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD:_____

DUP./REP. OF:_____

Pump Intake Set at (btoc):_____

or

Tubing Inlet Set at (btoc):_____

WELL DIAMETER: _____

DEPTH TO WATER:_____ **GRAB (x) COMPOSITE ( )**

TOTAL DEPTH:_____

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs SAMPLE COLLECTED FROM SAMPLING TUBING FOR PZ-2D

SAMPLE DATE : 10-11-22

SAMPLE TIME : 820

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW7470A	Mercury
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS

GENERAL INFORMATION		
WEATHER:	COOL - CLOUDY - HUMID	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: EVER GUILLEN		OBSERVER:

PROJECT NAME: Plant Mitchell GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; X 2022 Semi-Annual Event 2 (RESAMPLE); ___ OTHER

WELL ID / SAMPLE ID: MIT-APA12-FB-01-WQ-202210_____ MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD:_____

DUP./REP. OF:_____

Pump Intake Set at (btoc):_____
or
Tubing Inlet Set at (btoc):_____

WELL DIAMETER: _____
DEPTH TO WATER:_____ GRAB (x) COMPOSITE ( )
TOTAL DEPTH:_____
WATER COLUMN HEIGHT:_____
PURGE VOLUME:_____
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial:								( )	

NOTES:
[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.
If well is purged dry, allow to recharge and sample within 24 hrs.
Turbidity ≤ 5 NTUs COLLECTED @ PZ-2D

SAMPLE DATE : 10-11-22
SAMPLE TIME : 1000

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW7470A	Mercury
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS

GENERAL INFORMATION		
WEATHER:	Cool - Cloudy - Humid	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Ever Guillen		OBSERVER:

PROJECT NAME: Plant Mitchell GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; X 2022 Semi-Annual Event 2 (RESAMPLE); ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-25-WG-202210 11

MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow - Dedicated Bladder Pump

DUP./REP. OF: FD-01

WELL DIAMETER: 2"

DEPTH TO WATER: 34.32

GRAB (x) COMPOSITE ( )

TOTAL DEPTH: _____

Pump Intake Set at (btoc): _____

or

Tubing Inlet Set at (btoc): _____

WATER COLUMN HEIGHT: _____

PURGE VOLUME: _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1455 1.0	0.1	2.83	-45.7	7.23	380.40	29.08	7.93	200 ( )	34.32
1459 5.0	0.25	0.55	-118.7	7.12	388.54	25.18	7.22	200	34.76
1504 10.0	0.50	0.29	-126.3	7.13	387.60	25.04	5.72	200	34.76
1509 15.0	0.75	0.25	-129.4	7.13	390.04	24.86	4.37	200	34.76
1514 20.0	1.0	0.24	-129.2	7.13	387.33	24.55	3.39	200	34.76
1519 25.0	1.25	0.23	-145.9	7.13	388.33	24.54	1.88	200	34.76
1524 30.0	1.5	0.23	-133.2	7.14	389.38	24.96	1.22	200	34.76
1529 35.0	1.75	0.22	-134.0	7.14	390.08	25.07	0.87	200	34.76
1534 40.0	2.0	0.22	-133.9	7.13	388.97	24.86	1.03	200	34.76
1540	Collect Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs Collected FD-01 @ this location

SAMPLE DATE: 10-11-22

SAMPLE TIME: 1540

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 mL/Poly	1	HNO3 to pH <2	SW7470A	Mercury
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS

GENERAL INFORMATION		
WEATHER:	Clear - Hot - Humid	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER: Ever Guillen		OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2 (RESAMPLE); ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-2D-WG-202210_11

MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: DEDICATED BLADDER PUMP - LOW FLOW

DUP./REP. OF:_____

WELL DIAMETER: 2"

DEPTH TO WATER: 39.58

GRAB (x) COMPOSITE ( )

TOTAL DEPTH:_____

Pump Intake Set at (btoc):_____

or

Tubing Inlet Set at (btoc):_____

WATER COLUMN HEIGHT:_____

PURGE VOLUME:_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 0.0	0.1	9.03	249.5	5.11	1.14	21.92	4.33	200 ( )	39.58
1040 05.0	0.25	9.05	179.9	6.20	214.32	21.55	3.45	200	39.87
1095 10	0.5	2.98	174.9	6.90	144.67	20.29	2.30	200	39.87
1050 15	0.75	2.80	121.1	7.38	142.80	20.11	2.18	200	39.87
1055 20	1.0	3.24	51.6	7.60	141.16	20.02	1.30	200	39.87
1100 25	1.25	3.54	20.0	7.73	139.36	20.19	1.39	200	39.87
1105 30	1.5	3.70	9.1	7.81	138.51	20.29	1.47	200	39.87
1110 35	1.75	3.80	5.0	7.85	136.33	20.28	0.99	200	39.87
1115 40	2.0	3.88	1.6	7.89	135.57	20.15	1.08	200	39.87
1120 45	2.25	3.91	1.2	7.93	135.04	20.38	1.24	200	39.87
1125 50	2.5	3.94	0.8	7.94	134.36	20.33	0.96	200	39.87
1130	Collect Sample								

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 10-11-22

SAMPLE TIME : 1130

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS

GENERAL INFORMATION		
WEATHER:	Cool - Cloudy - Humid	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Ever Guillen	OBSERVER:

PROJECT NAME: Plant Mitchell, GA - CCR GW

PLANT MITCHELL FIELD SAMPLING REPORT
ASH PONDS 1 AND 2

Project Number: 6122-16-0170.2202

Wood E&I Solutions, Inc.
1075 BIG SHANTY ROAD NW SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: ___ 2022 Semi-Annual Event 1; _X_ 2022 Semi-Annual Event 2 (RESAMPLE); ___ OTHER

WELL ID / SAMPLE ID: MIT-PZ-32-WG-202210_11__ MATRIX: Groundwater

WELL MATERIAL: __ PVC __ SS __ OTHER

SAMPLE METHOD: Low Flow - Bladder Pump (Dedicated)

DUP./REP. OF:_____ WELL DIAMETER: 2"

DEPTH TO WATER: 41.63 GRAB (x) COMPOSITE ( )

TOTAL DEPTH:_____

Pump Intake Set at (btoc):_____ WATER COLUMN HEIGHT:_____

or PURGE VOLUME:_____

Tubing Inlet Set at (btoc):_____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	DO (±10% for DO > 0.5 mg/L for DO < 0.5 mg/L record only	ORP (mV) record only	pH (+/- 0.1 pH units)	SPEC. COND. (µs/cm) [+/- 5%]	TEMP (°C) Record only	TURB. (NTU) [≤5 NTU]	Pump Rate ml/min. (& pump setting) (100 ml/min)	Water Level (Ft BTOC)[1]
Initial: 1236 0.0	0.1	8.63	83.0	7.70	252.44	23.71	4.33	200 ( )	41.63
1241 5.0	0.25	1.50	19.0	7.42	274.70	20.59	3.38	200	41.78
1246 10.0	0.50	1.53	36.5	7.39	274.20	20.82	2.96	200	41.78
1251 15.0	0.75	1.34	39.2	7.39	271.27	20.86	2.21	200	41.79
1256 20.0	1.0	1.33	41.7	7.38	272.69	21.09	1.38	200	41.79
1301 25.0	1.25	1.34	43.2	7.39	272.30	21.15	1.10	200	41.79
1306 30.0	1.5	1.40	44.4	7.39	~~272.~~ 271.44	21.34	0.98	200	41.79
1311 35.0	1.75	1.48	45.8	7.37	271.22	21.18	0.94	200	41.79
1315	Collect	Sample							

NOTES:

[1] Stabilization of water column will be considered achieved when 3 consecutive water level measurements vary by 0.3 foot or less at a pumping rate no greater than 100 ml/min and the water level is above the top of the screen.

If well is purged dry, allow to recharge and sample within 24 hrs.

Turbidity ≤ 5 NTUs

SAMPLE DATE : 10-11-22

SAMPLE TIME : 1315

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL/Poly	1	Cool to 6°C	SM2540C	TDS

GENERAL INFORMATION		
WEATHER:	Cool - Cloudy - Humid	
SHIPPED VIA:	FED-X	
SHIPPED TO:	PACE Laboratories - 110 Technology Pkwy, Peachtree Corners, GA 30092 PH: (770) 734-4203 POC: Nicole D'Oleo (O) 704-977-0940 (M) 704-467-4501: nicole.d'oleo@pacelabs.com (Huntersvill NC lab)	
SAMPLER:	Ever Guillen	OBSERVER:

APPENDIX B

CALIBRATION DATA

Date: 8/24/22
Time: 0825
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No.
612216017O.2202

~~Pine~~ Sonde ID: 884186
~~Pine~~ Handset ID: _____
Battery Voltage %: _____

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		25.73
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar 1010.9
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	
DO concentration after Calibration (mg/L):		7.76 mg/L
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.047729 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot # 19150155	1.413
Temperature (°C)		~~1.634~~ 25.42
Reading before Calibration (mS/cm)		1.635
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.792

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	Lot 21010066 8/22	7.20
pH 7.0 value after calibration:	25.33	7.00
pH 7.0 mV (**range is -50 to +50 mV**):		-4.7
pH 10 value before calibration:	Lot 21080189 6/22	10.11
pH 10 value after calibration:	25.33	10.00
pH 10 mV (**range is -130 to -230 mV**):		-173.0
pH 4.0 value before calibration:	Lot 21470032 4/23	4.13
pH 4.0 value after calibration:	25.33	4.0
pH 4.0 mV (**range is 130 to 230 mV**):		169.1

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140143 4/23	228.6
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	25.27
Reading before calibration (mV):		224.6
Reading after calibration (mV):		228.6

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0 NTU Turbidity Standard	Before Cal:	After Cal:	0
10 NTU Turbidity Standard	Before Cal:	After Cal:	9.91
1 NTU Turbidity Standard	Before Cal:	After Cal:	0.67
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity meter
SN: 6411-1416

Date: 8/25/22
Time: 0530
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No.
612216017O.2202

~~Pine~~ Sonde ID: 884186
~~Pine~~ Handset ID: _____
Battery Voltage %: 100

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		23.56
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar 1008.0
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.42
DO concentration after Calibration (mg/L):		~~8.22~~ 8.04
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.76
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.050567 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot #19150155	1.413
Temperature (°C)		23.79
Reading before Calibration (mS/cm)		1.415
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.99

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	Lot 21010066 8/22	7.02
pH 7.0 value after calibration:	23.85	7.00
pH 7.0 mV (**range is -50 to +50 mV**):		-5.5
pH 10 value before calibration:	Lot 21080189 6/22	10.06
pH 10 value after calibration:	23.97	10.00
pH 10 mV (**range is -130 to -230 mV**):		-175.7
pH 4.0 value before calibration:	Lot 21470032 4/23	4.02
pH 4.0 value after calibration:	24.06	4.00
pH 4.0 mV (**range is 130 to 230 mV**):		167.3

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140143 4/23	24.06
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	~~24~~ 230.3
Reading before calibration (mV):		229.5
Reading after calibration (mV):		230.3

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0 NTU Turbidity Standard	Before Cal:	After Cal:	0
10 NTU Turbidity Standard	Before Cal:	After Cal:	11.2
1 NTU Turbidity Standard	Before Cal:	After Cal:	0.5
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity meter
SN: 6411-1416

Date: 8/26/22
Time: 0520
Prepared By: Daniel Howard
Checked By: _____

Wood.
Project No.
612216017D.2202

~~Pine~~ Sonde ID: 884186
~~Pine~~ Handset ID: _____
Battery Voltage %: 93

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):		23.76
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbar 1007.8
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.38
DO concentration after Calibration (mg/L):		7.98
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.77
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.053428 slope

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot 19150155	1.413
Temperature (°C)		23.66
Reading before Calibration (mS/cm)		1.398
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		1.00

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	Lot 21010066 8/22	7.02
pH 7.0 value after calibration:	23.78	7.00
pH 7.0 mV (**range is -50 to +50 mV**):		-6.4
pH 10 value before calibration:	Lot 2108D189 6/22	10.01
pH 10 value after calibration:	23.89	10.00
pH 10 mV (**range is -130 to -230 mV**):		-176.1
pH 4.0 value before calibration:	Lot 21470032 4/23	4.03
pH 4.0 value after calibration:	24.03	4.00
pH 4.0 mV (**range is 130 to 230 mV**):		165.6

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	Lot 21140143 4/23	24.24
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	230.1
Reading before calibration (mV):		230.2
Reading after calibration (mV):		230.1

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY Note: **Lens wiper should be parked 180 degrees from the optics.**			
0 NTU Turbidity Standard	Before Cal:	After Cal:	0
10 NTU Turbidity Standard	Before Cal:	After Cal:	10.9
1 NTU Turbidity Standard	Before Cal:	After Cal:	0.65
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity meter
SN: 6411-1416

Date: 8-24-22
Time: 900
Prepared By: EVER GUILLEN
Checked By: _____

Wood.
Project No.

Pine Sonde ID: 877800
Pine Handset ID: _____
Battery Voltage %: _____

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes_____ No ✓ Date:_____ Time:_____	
Current Air Temperature °C (meter reading):	~~24.74~~	~~24.64~~ 24.74
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg 1010.6mb	758.01
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	6.91 ~~8.26~~
DO concentration after Calibration (mg/L):		7.81
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.059867

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot# 19410200	1.413
Temperature (°C)		24.33
Reading before Calibration (mS/cm)		1.721
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):	0.917	~~1.054867~~

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:	21380102 4/23	7.27
pH 7.0 value after calibration:		7.0
pH 7.0 mV (**range is -50 to +50 mV**):		-9.7
pH 10 value before calibration:	20080056 4/23	10.07
pH 10 value after calibration:		10.0
pH 10 mV (**range is -130 to -230 mV**):		-171.0
pH 4.0 value before calibration:	21470032 4/23	4.28
pH 4.0 value after calibration:		4.0
pH 4.0 mV (**range is 130 to 230 mV**):		167.0

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	21140143 4/23	26.10
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		225.2
Reading after calibration (mV):		227.6

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0.0 NTU Turbidity Standard	Before Cal: -0.19	After Cal:	0.0
10.0 NTU Turbidity Standard	Before Cal: 10.1	After Cal:	10.1
_____ NTU Turbidity Standard	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity meter

Date: 8-25-22
Time: 815
Prepared By: EVER GUILLEN
Checked By:

Wood.
Project No.

Pine Sonde ID:
Pine Handset ID: 877800
Battery Voltage %:

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		29.69
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg 1011.9MB	758.99
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.57
DO concentration after Calibration (mg/L):		7.90
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.050036

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)		1.413
Temperature (°C)		25.04
Reading before Calibration (mS/cm)		1.499
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.868

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:		7.06
pH 7.0 value after calibration:		7.0
pH 7.0 mV (**range is -50 to +50 mV**):		-8.0
pH 10 value before calibration:		10.06
pH 10 value after calibration:		10.0
pH 10 mV (**range is -130 to -230 mV**):		-174.4
pH 4.0 value before calibration:		4.07
pH 4.0 value after calibration:		4.0
pH 4.0 mV (**range is 130 to 230 mV**):		163.0

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):		25.48
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		227.3
Reading after calibration (mV):		228.5

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0.0 NTU Turbidity Standard	Before Cal:	After Cal:	0.0
10.0 NTU Turbidity Standard	Before Cal:	After Cal:	9.92
____ NTU Turbidity Standard	Before Cal:	After Cal:	
____ NTU Turbidity Check STD	Before Cal:	After Cal:	
____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity Meter

Date: 8-26-22
Time: 830
Prepared By: EVER GUILLEN
Checked By: _____

Wood.
Project No.

Pine Sonde ID: _____
Pine Handset ID: 877802
Battery Voltage %: _____

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		22.72
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg 10 11.1 MB	758.39
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.76
DO concentration after Calibration (mg/L):		8.34
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	1.031263

Note:

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)		1.413
Temperature (°C)		23.61
Reading before Calibration (mS/cm)		1.312
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		0.913

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH 7.0 value before calibration:		7.0
pH 7.0 value after calibration:		7.0
pH 7.0 mV **(range is -50 to +50 mV)**:		-7.6
pH 10 value before calibration:		10.04
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-175.6
pH 4.0 value before calibration:		3.99
pH 4.0 value after calibration:		4.0
pH 4.0 mV **(range is 130 to 230 mV)**:		162.8

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):		23.79
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228.0
Reading before calibration (mV):		231.2
Reading after calibration (mV):		230.7

Note: mV theory will change with temperature, so calculate based on your current temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0.0 NTU Turbidity Standard	Before Cal: -0.19	After Cal:	0.0
10.0 NTU Turbidity Standard	Before Cal:	After Cal:	9.93
_____ NTU Turbidity Standard	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
_____ NTU Turbidity Check STD	Before Cal:	After Cal:	
CALIBRATION SUCCESSFUL?			

LaMotte Turbidity meter

SN843285

Project: PLANT MITCHELL
Date: 10-11-22
Time:
Sampler: EVER GUILLEN

Wood
Environment and Infrastructure

Sonde ID: 88 3965
Handset ID:
Battery Voltage %: 100

YSI CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes____ No ✓ Date:____ Time:____	
Current Air Temperature °C (meter reading):		18.56
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; **subtract** 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg 1,018.1mB	
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	9.08
DO concentration after Calibration (mg/L):		8.07
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	

Note: Reference elevation for the Fairfield, AL site is 565 ft.

CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	LOT# 21500094 EXP. 7-23	1.413
Temperature (°C)		18.37
Reading before Calibration (mS/cm)		1.203
Reading AFTER Calibration (mS/cm)		1.287
Conductivity Cell Constant (unitless):		0.917

Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)

pH		
pH **7.0** value before calibration:	2138010 2 4/23	7.06
pH **7.0** value after calibration:		7.0
pH **7.0** mV **(range is -50 to +50 mV)**:		1.0
pH 10 value before calibration:	20080056 4/23	10.48
pH 10 value after calibration:		10.0
pH 10 mV **(range is -130 to -230 mV)**:		-169.1
pH **4.0** value before calibration:	21470032 4/23	4.08
pH **4.0** value after calibration:		4.0
pH **4.0** mV **(range is 130 to 230 mV)**:		172.1

Note: Span between ph 4 and 7, and 7 and 10 should be between 165 to 180 mV

OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	21140143 4/23	19.53
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228.0
Reading before calibration (mV):		236.2
Reading after calibration (mV):		229.2

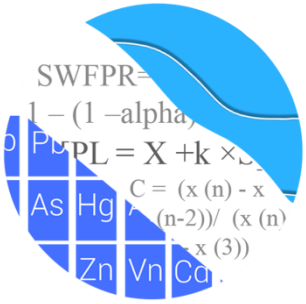
Note: mV theory will change with temperature, so calculate based on your current YSI temp.

TURBIDITY **Note: Lens wiper should be parked 180 degrees from the optics.**			
0 NTU Turbidity Standard	Before Cal: 1.1	After Cal:	0.1
10 ~~100~~ NTU Turbidity Standard	Before Cal: 10.9	After Cal:	10.1
200	211.7		19.9
100	97.2		102.1
800	787		792
YSI CALIBRATION SUCCESSFUL?			YES

APPENDIX C

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING



February 28, 2023

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
August 2022 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical summary 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. 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:

- **Upgradient wells:** PZ-1D, PZ-2D, PZ-31, and PZ-32
- **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 was first sampled on January 2022 and has only been sampled twice. Data for this well were plotted on time series and box plots, and formal statistics will be conducted when a minimum of 4 samples are available for Appendix IV constituents and a minimum of 8 samples are available for Appendix III constituents.

During the August 2022 sample event, mercury for well PZ-25 and TDS for wells PZ-2D, PZ-25, and PZ-32 exceeded their hold time and were resampled in October 2022. Per request of WSP, the samples that exceeded their hold time for mercury and TDS were not included in the data base. Resamples were also collected for pH at wells PZ-2D, PZ-25, and PZ-32 and both the August 2022 and October 2022 observations were included in the database.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs with 100% non-detects since 2016 for Appendix IV constituents follow this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

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 in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In 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 will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as 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 2022 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed using time series for potential outliers during this analysis. No new values were flagged as outlier 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 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2022 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-18, PZ-19, PZ-25, PZ-33, PZ-7D
- Calcium: PZ-18, PZ-19, PZ-23A
- Chloride: PZ-14, PZ-15, PZ-16, PZ-18, PZ-19
- pH: PZ-14, PZ-18, PZ-19, PZ-23A
- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A, and PZ-7D

October 2022 Resample Event

An additional set of interwell prediction limits were constructed using pooled upgradient well data through October 2022 to evaluate the October 2022 resample observations for pH and TDS at downgradient wells PZ-2D, PZ-25, and PZ-32 (Figure E). No exceedances were identified.

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 F). 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 natural 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-18, PZ-31 (upgradient), and PZ-32 (upgradient)
- Sulfate: PZ-14 and PZ-23A

Decreasing:

- Boron: PZ-33 and PZ-7D
- Chloride: PZ-16, PZ-18, PZ-19, and PZ-31 (upgradient)

- Sulfate: PZ-2D (upgradient), PZ-16, PZ-19, PZ-25, PZ-31 (upgradient), PZ-33, and PZ-7D
- TDS PZ-17 and PZ-7D

Statistical Analysis of Appendix IV Parameters – August 2022 Sample & October 2022 Resample Events

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 new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2022 to determine the Alternate Contaminant Level (ACL) for each Appendix IV constituent (Figure G). Parametric limits are constructed when data follow a normal or transformed-normal distribution with a target of 95% confidence and 95% coverage. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits are used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)

- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents using data through August 2022 in accordance with the state requirements in each downgradient well (Figure I). Note that data through October 2022 were used for mercury PZ-25 confidence interval. 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. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the Georgia 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, 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.

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,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Easton Rayner
Groundwater Analyst

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/18/2022 3:22 PM 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, PZ-7D

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

Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02661	n/a	8/25/2022	0.21	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02661	n/a	8/25/2022	0.24	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02661	n/a	8/25/2022	0.39	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02661	n/a	8/25/2022	0.58	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02661	n/a	8/24/2022	0.19	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02661	n/a	8/24/2022	0.32	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02661	n/a	8/25/2022	0.2	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.6	n/a	8/25/2022	141	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.6	n/a	8/25/2022	156	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.6	n/a	8/25/2022	145	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.526	n/a	8/25/2022	6.4	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.526	n/a	8/25/2022	6.3	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	8/25/2022	6.93	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	8/25/2022	6.76	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	8/25/2022	6.67	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	8/25/2022	6.76	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.172	n/a	8/25/2022	10.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.172	n/a	8/25/2022	75.5	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.172	n/a	8/25/2022	38.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.172	n/a	8/25/2022	62.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.172	n/a	8/25/2022	96.3	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.172	n/a	8/25/2022	84.4	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.172	n/a	8/25/2022	45.6	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.172	n/a	8/24/2022	35.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.172	n/a	8/24/2022	34.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.172	n/a	8/25/2022	47.3	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	309.4	n/a	8/25/2022	319	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	309.4	n/a	8/25/2022	321	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	309.4	n/a	8/25/2022	446	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	309.4	n/a	8/25/2022	528	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	309.4	n/a	8/25/2022	437	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	309.4	n/a	8/25/2022	325	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02661	n/a	8/25/2022	0.032J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02661**	**n/a**	**8/25/2022**	**0.21**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02661**	**n/a**	**8/25/2022**	**0.24**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	PZ-17	0.02661	n/a	8/25/2022	0.19J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-18**	**0.02661**	**n/a**	**8/25/2022**	**0.39**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02661**	**n/a**	**8/25/2022**	**0.58**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	PZ-23A	0.02661	n/a	8/25/2022	0.17J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-25**	**0.02661**	**n/a**	**8/24/2022**	**0.19**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02661**	**n/a**	**8/24/2022**	**0.32**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02661**	**n/a**	**8/25/2022**	**0.2**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.6	n/a	8/25/2022	108	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.6	n/a	8/25/2022	96.7	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.6	n/a	8/25/2022	92	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.6	n/a	8/25/2022	99.5	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.6**	**n/a**	**8/25/2022**	**141**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.6**	**n/a**	**8/25/2022**	**156**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.6**	**n/a**	**8/25/2022**	**145**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.6	n/a	8/24/2022	87.6	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.6	n/a	8/24/2022	96.5	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.6	n/a	8/25/2022	107	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-14**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-15**	**4.526**	**n/a**	**8/25/2022**	**6.4**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.526**	**n/a**	**8/25/2022**	**6.3**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.526	n/a	8/25/2022	3.9	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-18**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-19**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-23A	4.526	n/a	8/25/2022	3.2	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.526	n/a	8/24/2022	1.8	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.526	n/a	8/24/2022	1.8	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.526	n/a	8/25/2022	4.1	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	8/25/2022	0.051J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	8/25/2022	0.074J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	8/25/2022	0.058J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	8/25/2022	0.078J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	8/25/2022	0.052J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	8/25/2022	0.086J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	8/25/2022	0.074J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	8/24/2022	0.15	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	8/24/2022	0.092J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	8/25/2022	0.056J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**8/25/2022**	**6.93**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	8/25/2022	7.15	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	8/25/2022	7.14	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	8/25/2022	7.05	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**8/25/2022**	**6.76**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**8/25/2022**	**6.67**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**8/25/2022**	**6.76**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	8/24/2022	7.1	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	8/24/2022	7.1	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	8/25/2022	6.98	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**6.172**	**n/a**	**8/25/2022**	**10.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.172**	**n/a**	**8/25/2022**	**75.5**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.172**	**n/a**	**8/25/2022**	**38.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.172**	**n/a**	**8/25/2022**	**62.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.172**	**n/a**	**8/25/2022**	**96.3**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**

Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	**PZ-19**	**6.172**	**n/a**	**8/25/2022**	**84.4**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.172**	**n/a**	**8/25/2022**	**45.6**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.172**	**n/a**	**8/24/2022**	**35.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.172**	**n/a**	**8/24/2022**	**34.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.172**	**n/a**	**8/25/2022**	**47.3**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	309.4	n/a	8/25/2022	259	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**309.4**	**n/a**	**8/25/2022**	**319**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	309.4	n/a	8/25/2022	90	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-17**	**309.4**	**n/a**	**8/25/2022**	**321**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**309.4**	**n/a**	**8/25/2022**	**446**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**309.4**	**n/a**	**8/25/2022**	**528**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**309.4**	**n/a**	**8/25/2022**	**437**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-33	309.4	n/a	8/24/2022	265	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-7D**	**309.4**	**n/a**	**8/25/2022**	**325**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Interwell Prediction Limits - Resample Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	PZ-25	9.48	6.96	10/11/2022	7.13	No	66	n/a	n/a	0	n/a	n/a	0.0008751	NP Inter (normality) 1 of 2
TDS (mg/L)	PZ-25	307.8	n/a	10/11/2022	267	No	64	171.6	67.98	0	None	No	0.0007523	Param Inter 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 4:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-33**	**-0.01244**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.0341**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.478**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**2.442**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.939**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.347**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3988**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-19**	**-0.5273**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.3431**	**-86**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.677**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.677**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-19**	**-1.705**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**4.222**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.516**	**-92**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.6424**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.9633**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-12.82**	**-108**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.016**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-17**	**-16.07**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-12.16**	**-60**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 4:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002875	-25	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	10	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003907	18	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02163	-42	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0003842	12	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005259	-41	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001017	-43	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0	-1	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-1	-58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-33**	**-0.01244**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.0341**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.478**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.9209	11	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.612	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	2.968	52	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	2.155	30	58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.442**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.939**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-14	-0.1076	-35	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2275	-52	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.347**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3988**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-19**	**-0.5273**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.08315	-47	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.05458	-36	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.3431**	**-86**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1674	-58	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-14	0.009753	13	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01313	-37	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.007961	14	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01661	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	24	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2384	-28	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.003316	-10	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.004191	11	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.677**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.4002	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.677**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-5.533	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.22	-27	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.705**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	0	6	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**4.222**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.516**	**-92**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.6424**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.9633**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.02024	-16	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-12.82**	**-108**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.016**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-15	4.115	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-17**	**-16.07**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-18	2.236	13	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-10.13	-32	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.035	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	6.692	52	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	1.433	4	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.04	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-7D**	**-12.16**	**-60**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limit Summary Table

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	64	n/a	n/a	54.69	n/a	n/a	0.03752	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	56	n/a	n/a	85.71	n/a	n/a	0.05656	NP Inter(NDs)
Barium (mg/L)	n/a	0.04787	n/a	n/a	n/a	n/a	64	-4.397	0.6775	1.563	None	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	48	n/a	n/a	95.83	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	48	n/a	n/a	100	n/a	n/a	0.08526	NP Inter(NDs)
Chromium (mg/L)	n/a	0.009976	n/a	n/a	n/a	n/a	64	0.05165	0.02407	25	Kaplan-Meier	sqrt(x)	0.05	Inter
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	64	n/a	n/a	96.88	n/a	n/a	0.03752	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.662	n/a	n/a	n/a	n/a	62	0.7165	0.2849	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	68	n/a	n/a	47.06	n/a	n/a	0.03056	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	64	n/a	n/a	79.69	n/a	n/a	0.03752	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	64	n/a	n/a	79.69	n/a	n/a	0.03752	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	56	n/a	n/a	89.29	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	64	n/a	n/a	78.13	n/a	n/a	0.03752	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	64	n/a	n/a	100	n/a	n/a	0.03752	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	64	n/a	n/a	90.63	n/a	n/a	0.03752	NP Inter(NDs)

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0035	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.048	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		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.66	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*

Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 11:01 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	16	0.002838	0.00065	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	16	0.002726	0.0007512	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	16	0.002836	0.0006575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	16	0.002569	0.0009303	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	16	0.002825	0.0004837	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	16	0.00284	0.00064	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	16	0.002755	0.0007115	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	16	0.002699	0.0008256	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	16	0.002501	0.001073	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	14	0.004702	0.001114	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	14	0.004114	0.001764	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	14	0.00408	0.001828	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	14	0.004693	0.001149	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	14	0.004669	0.00124	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.001	0.01	No	14	0.00386	0.001885	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	14	0.004403	0.001519	85.71	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03145	0.01661	2	No	16	0.02474	0.01324	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.076	0.048	2	No	16	0.05913	0.01516	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0467	0.034	2	No	16	0.04293	0.0132	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07887	0.07041	2	No	16	0.07464	0.006501	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	16	0.0295	0.01319	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05859	0.05228	2	No	16	0.05543	0.004848	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05067	0.03709	2	No	16	0.04388	0.01044	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	16	0.1051	0.006471	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.07063	0.04977	2	No	15	0.0602	0.01539	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.009796	0.006842	2	No	16	0.008319	0.00227	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	12	0.00045	0.0001168	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	12	0.0004667	0.0001155	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0011	0.1	No	16	0.003334	0.001954	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.00087	0.1	No	16	0.002769	0.002042	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	16	0.004722	0.00111	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	16	0.004733	0.001067	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002196	0.001274	0.1	No	16	0.002537	0.001455	18.75	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	16	0.004794	0.000825	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002159	0.0008284	0.1	No	16	0.002762	0.001782	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	16	0.004519	0.001351	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.006	No	16	0.003625	0.002114	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.006	No	16	0.003351	0.002204	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	16	0.004506	0.00135	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.006	No	16	0.003615	0.002124	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.006	No	16	0.001547	0.001003	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0007	0.006	No	16	0.003614	0.002015	62.5	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.9475	0.3298	5	No	16	0.687	0.5554	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.066	0.6938	5	No	16	0.8973	0.3291	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8728	0.4454	5	No	16	0.6591	0.3284	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.183	0.6143	5	No	15	0.8987	0.4198	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.173	0.4239	5	No	14	0.7987	0.5292	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.34	0.7215	5	No	16	1.031	0.4756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.197	0.7349	5	No	16	0.9661	0.3554	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.183	0.7453	5	No	16	0.9644	0.3368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.009	0.5396	5	No	16	0.7743	0.3608	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6104	0.2246	5	No	16	0.4462	0.3344	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	17	0.08865	0.02518	58.82	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1172	0.07172	4	No	17	0.1075	0.04446	35.29	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results (No Significant)

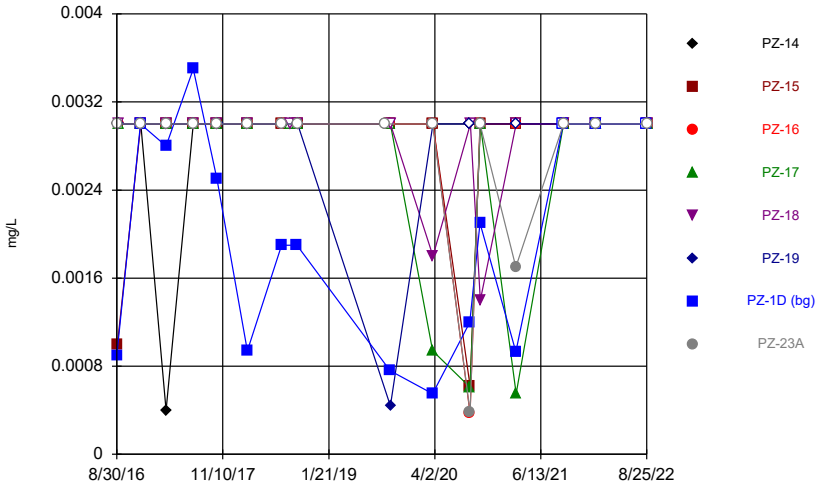
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 11:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	17	0.08359	0.0241	58.82	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1252	0.05759	4	No	17	0.118	0.06353	35.29	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	17	0.09947	0.03486	52.94	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.14	0.064	4	No	17	0.1087	0.07546	11.76	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.057	4	No	17	0.09918	0.05772	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2402	0.1492	4	No	17	0.1947	0.07264	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.092	4	No	17	0.1054	0.04146	58.82	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.056	4	No	17	0.08835	0.03076	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	16	0.0009406	0.0002375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	16	0.0009426	0.0002298	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	16	0.0009045	0.0002704	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	16	0.0009401	0.0002395	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	16	0.0008284	0.0003694	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	16	0.0008836	0.0003183	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	16	0.0009401	0.0002398	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	16	0.02831	0.00675	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	16	0.01026	0.01375	31.25	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	16	0.005794	0.009456	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0024	0.04	No	16	0.006131	0.009322	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01455	0.01057	0.04	No	16	0.01256	0.00306	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	16	0.02094	0.01388	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006908	0.005581	0.04	No	16	0.006188	0.001108	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0023	0.04	No	16	0.004594	0.006797	6.25	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	14	0.0001871	0.00003625	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	14	0.0001926	0.00002753	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	14	0.0001906	0.00003528	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	14	0.0001919	0.00003047	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	14	0.0001898	0.00003822	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	14	0.0001818	0.00004754	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	14	0.00019	0.00002987	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	14	0.0001895	0.00003929	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	14	0.000171	0.00005965	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	14	0.0001795	0.00005213	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	16	0.009406	0.002375	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0025	0.002	0.1	No	16	0.002669	0.001969	6.25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	16	0.008856	0.003127	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	16	0.009437	0.00225	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	16	0.004544	0.001248	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	16	0.0048	0.0008	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0019	0.05	No	16	0.00385	0.001328	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.005	0.0023	0.05	No	16	0.0035	0.00141	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	16	0.003987	0.001551	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	16	0.0009413	0.000235	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.0002	0.002	No	16	0.0007006	0.0004001	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00018	0.002	No	16	0.0006877	0.0004177	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00022	0.002	No	16	0.0006444	0.0003726	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	16	0.0008226	0.0003815	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007268	0.0004869	0.002	No	16	0.0006069	0.0001843	6.25	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00016	0.002	No	16	0.000545	0.0004167	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00036	0.002	No	16	0.0006963	0.0003262	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	16	0.0007269	0.0004188	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0001	0.002	No	16	0.0007227	0.0004256	68.75	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

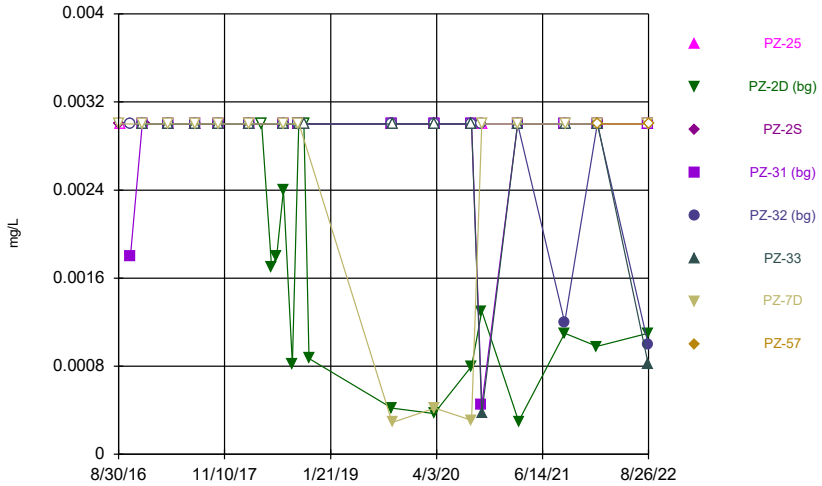
Time Series



Constituent: Antimony Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

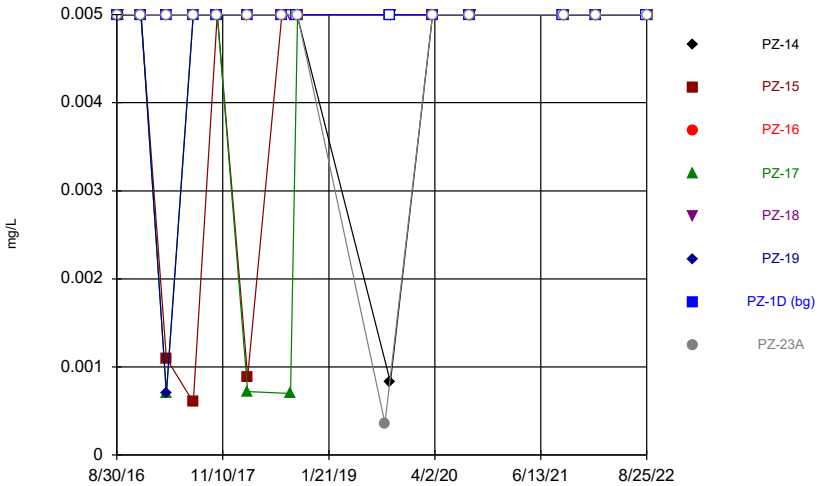
Time Series



Constituent: Antimony Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

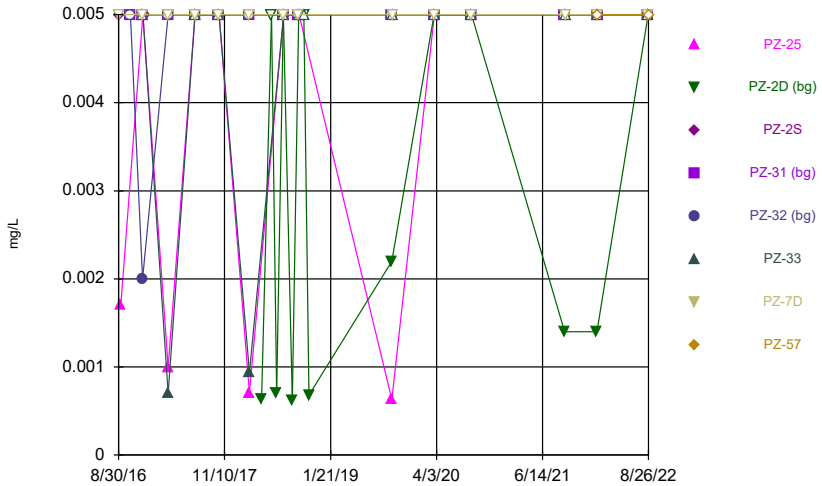
Time Series



Constituent: Arsenic Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

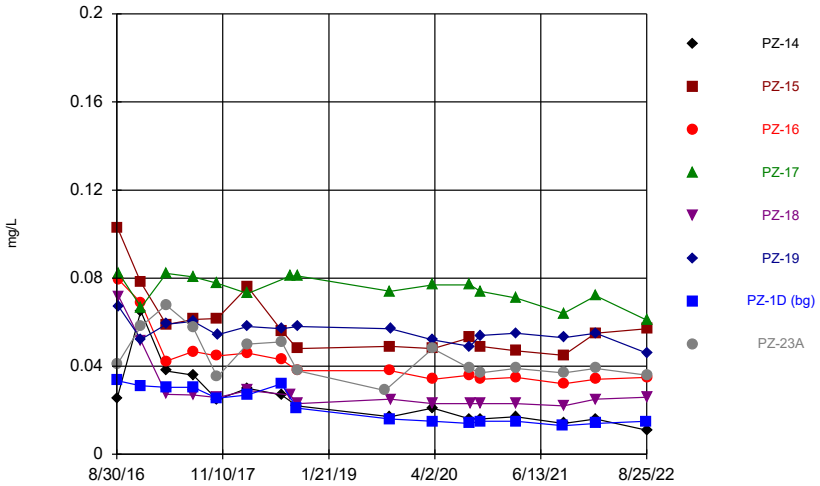
Time Series



Constituent: Arsenic Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



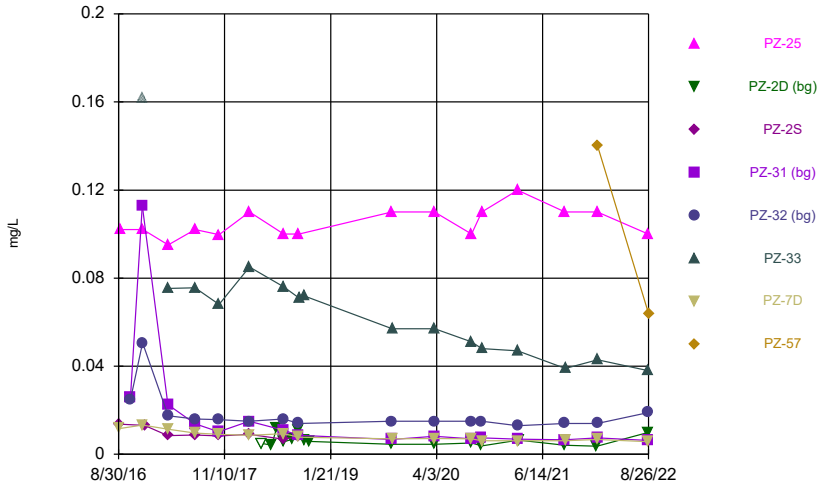
Constituent: Barium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



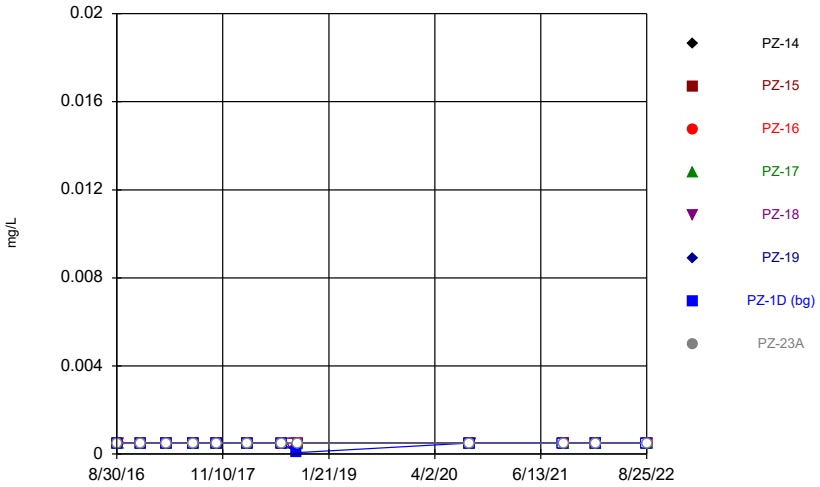
Constituent: Barium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



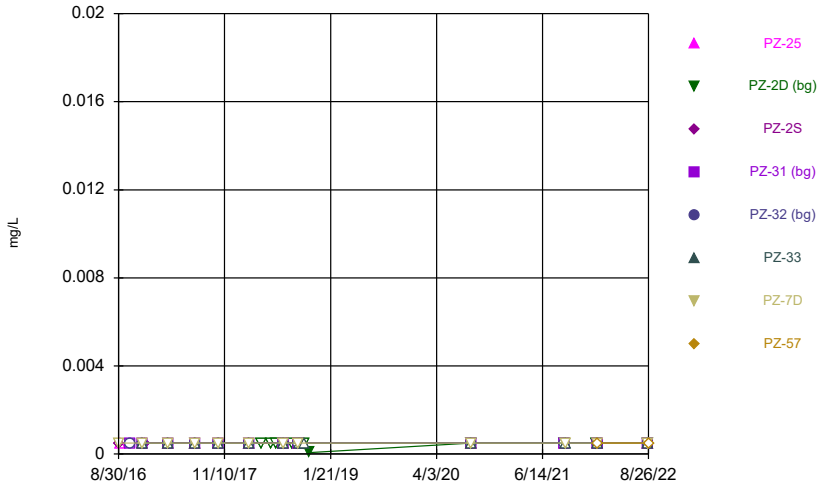
Constituent: Beryllium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

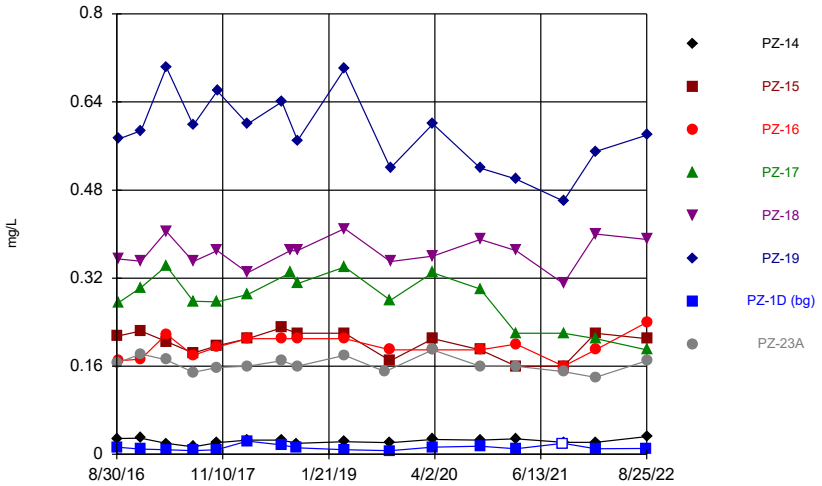


Constituent: Beryllium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

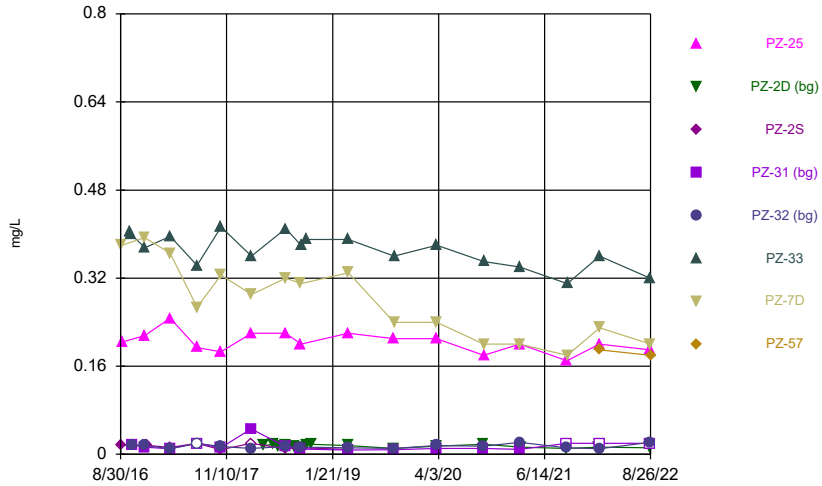
Time Series



Constituent: Boron Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

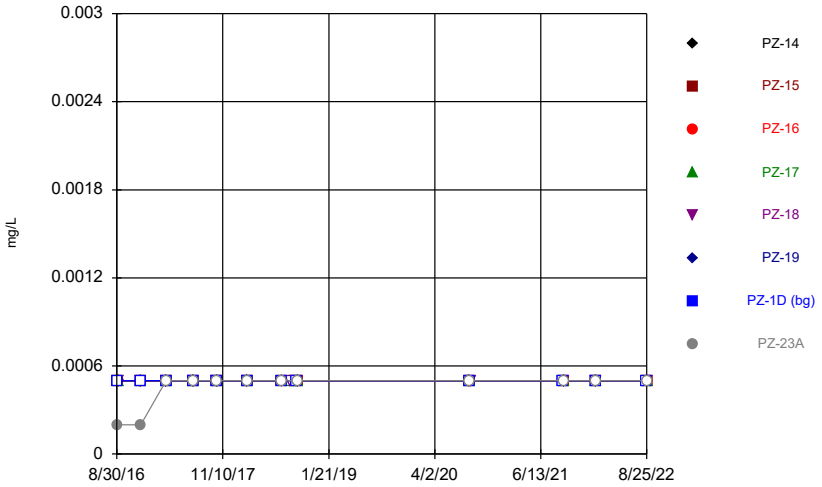
Time Series



Constituent: Boron Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

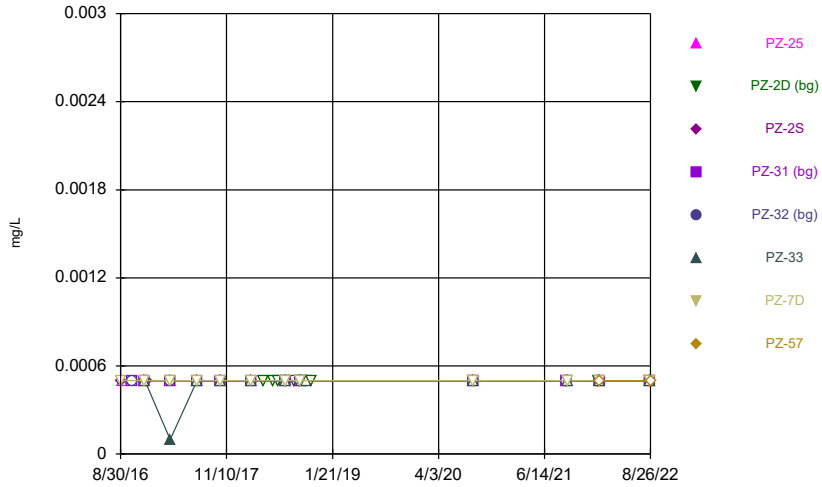
Time Series



Constituent: Cadmium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

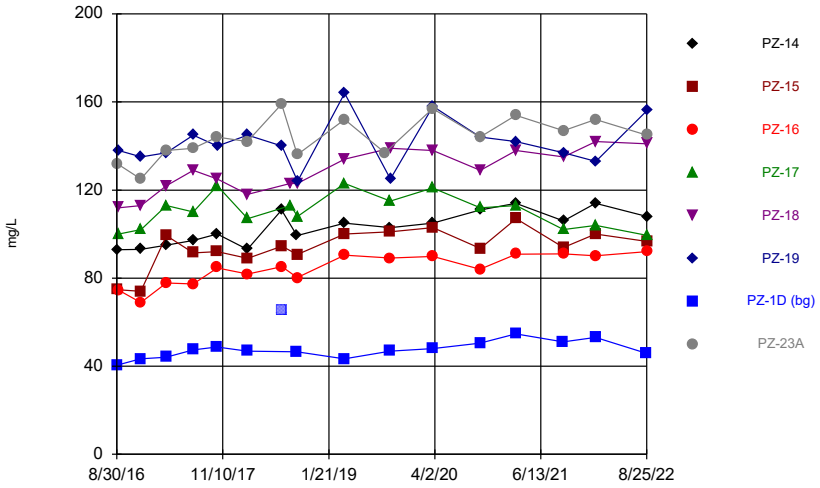
Time Series



Constituent: Cadmium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



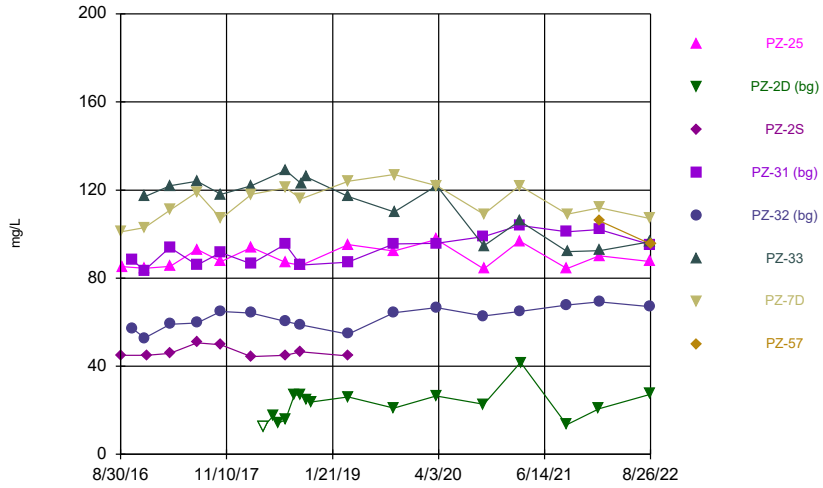
Constituent: Calcium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

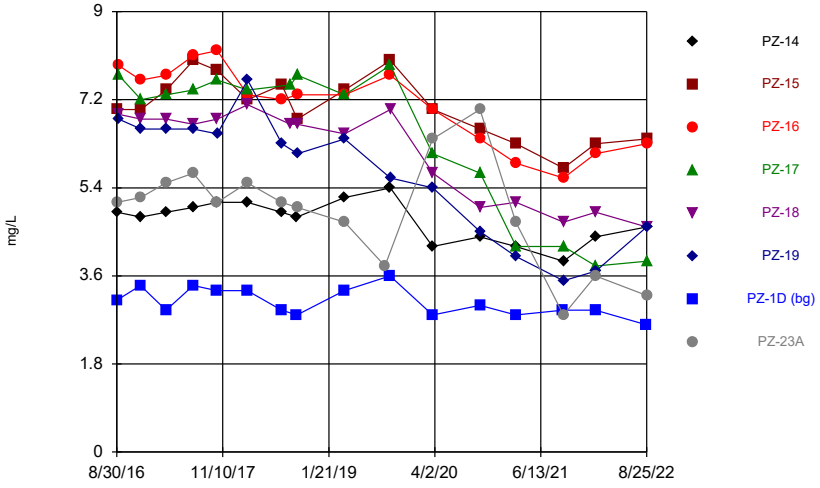


Constituent: Calcium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

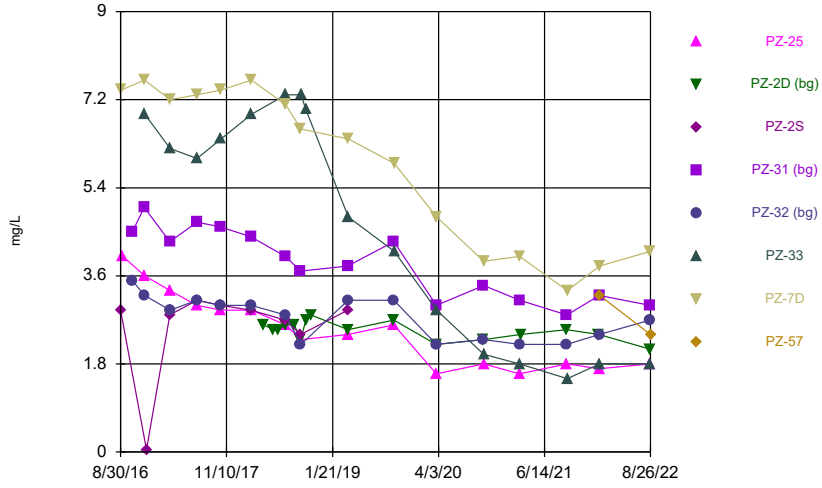


Constituent: Chloride Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

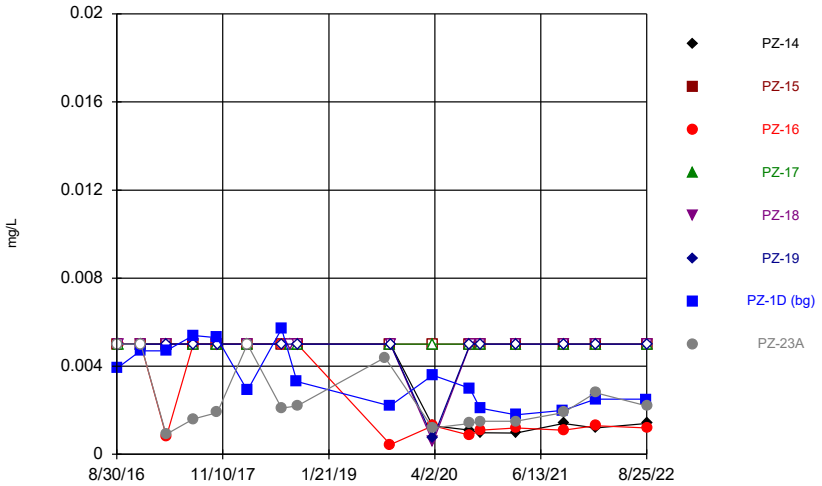


Constituent: Chloride Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

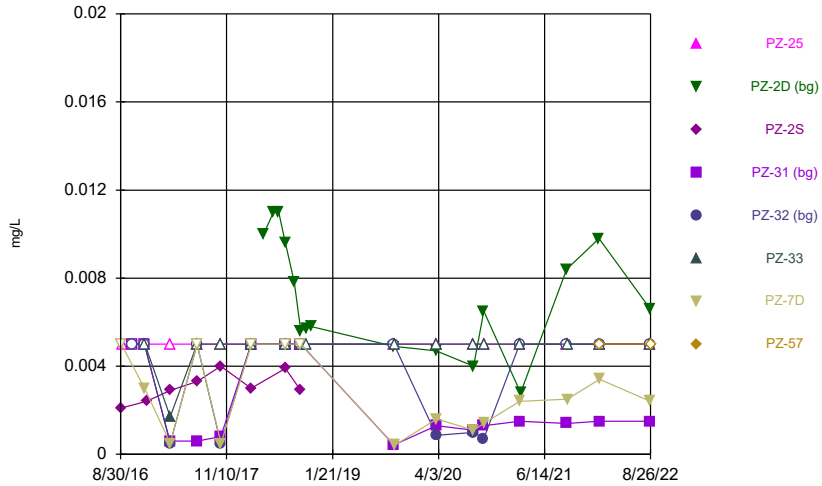
Time Series



Constituent: Chromium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

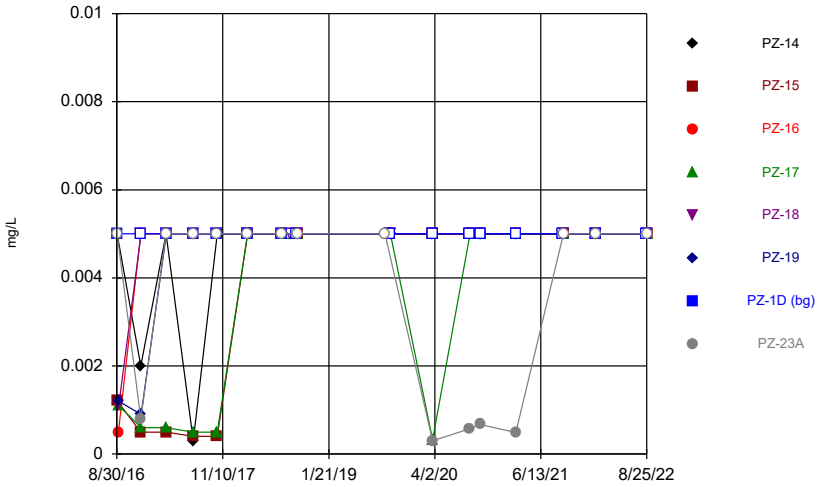
Time Series



Constituent: Chromium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

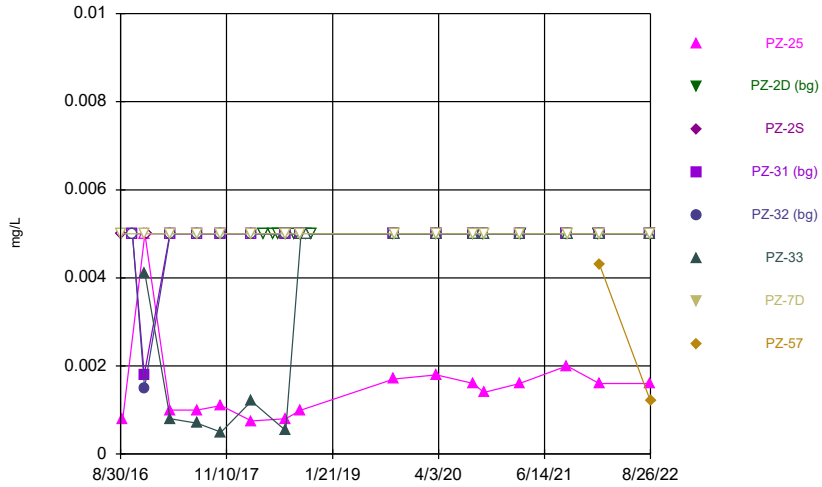
Time Series



Constituent: Cobalt Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

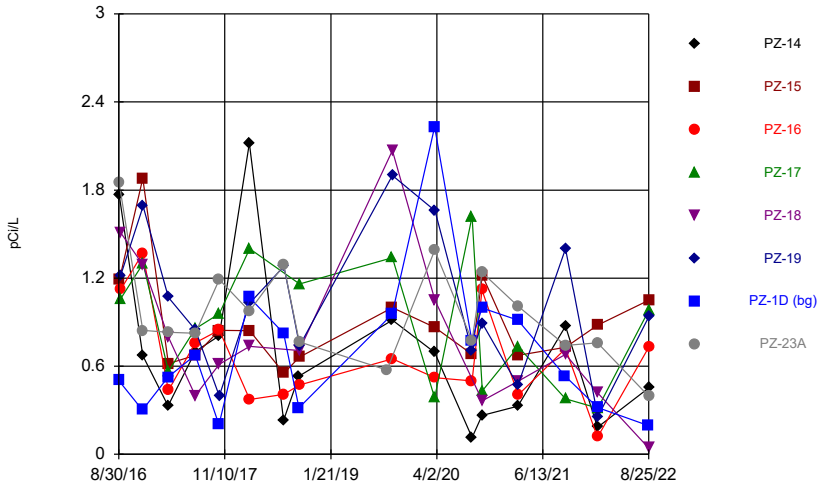
Time Series



Constituent: Cobalt Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

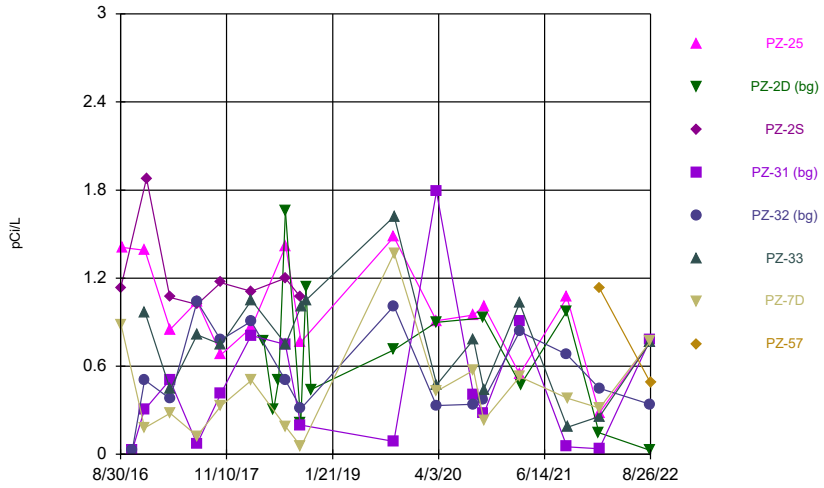


Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



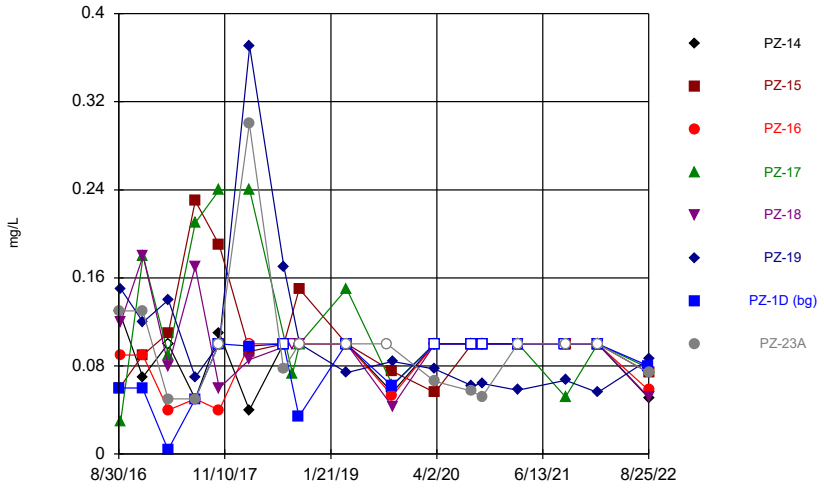
Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



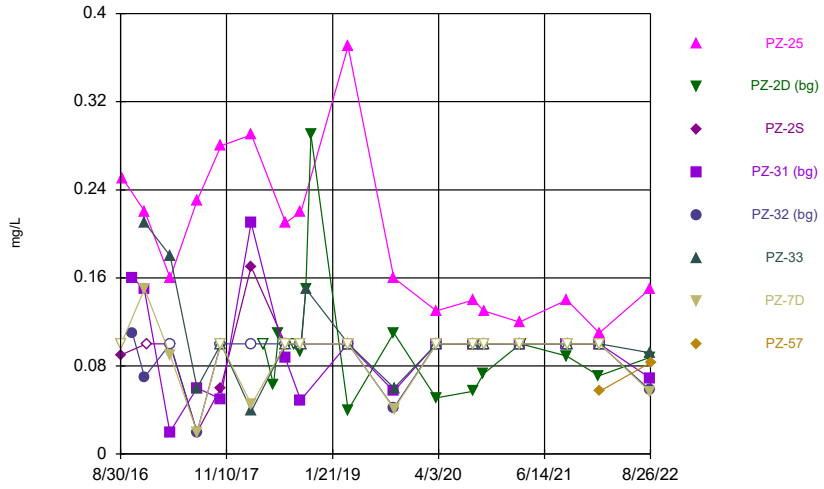
Constituent: Fluoride Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

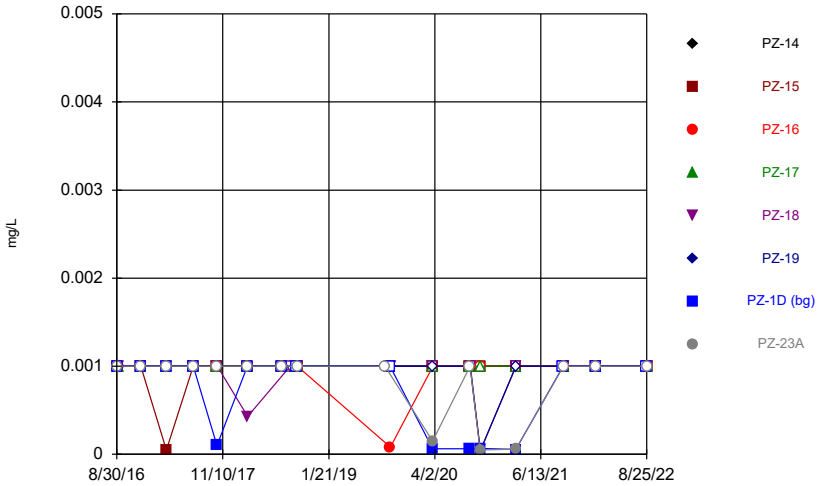


Constituent: Fluoride Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

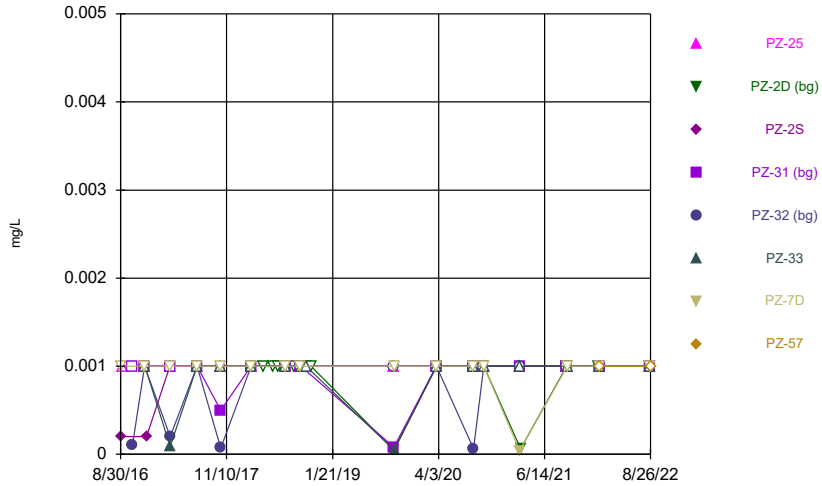
Time Series



Constituent: Lead Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

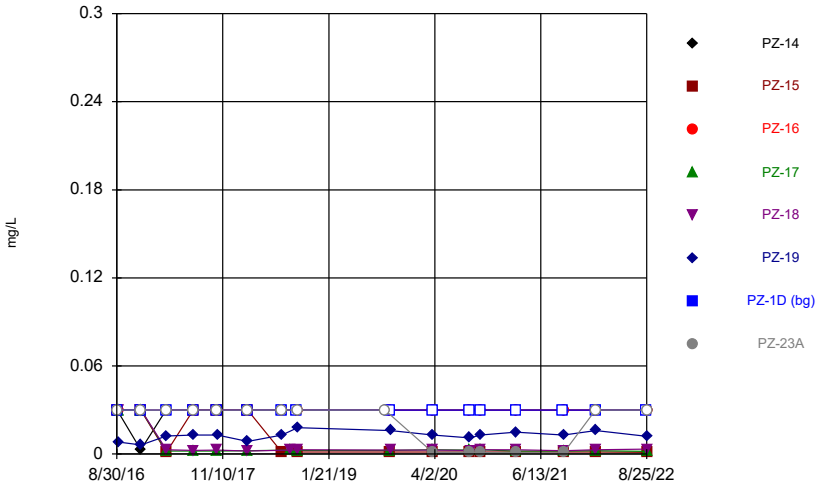
Time Series



Constituent: Lead Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

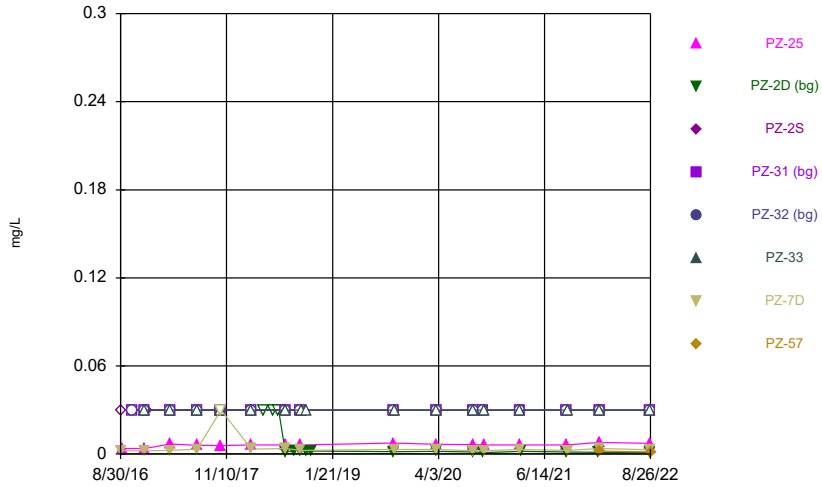
Time Series



Constituent: Lithium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

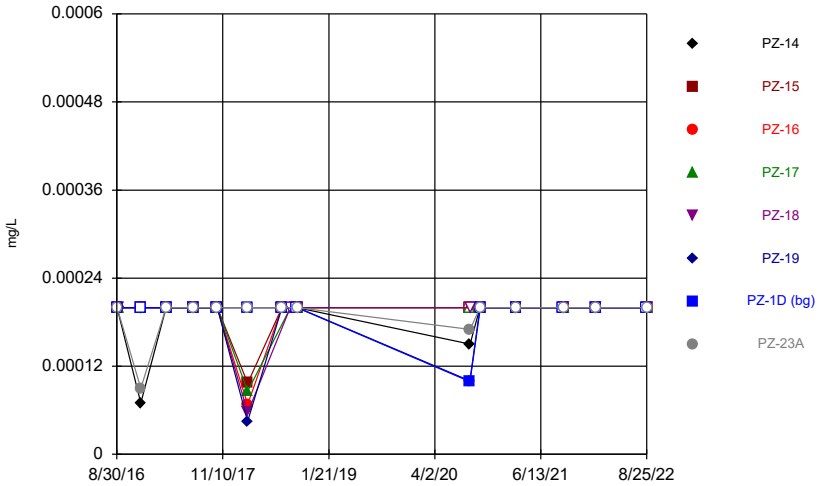
Time Series



Constituent: Lithium Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

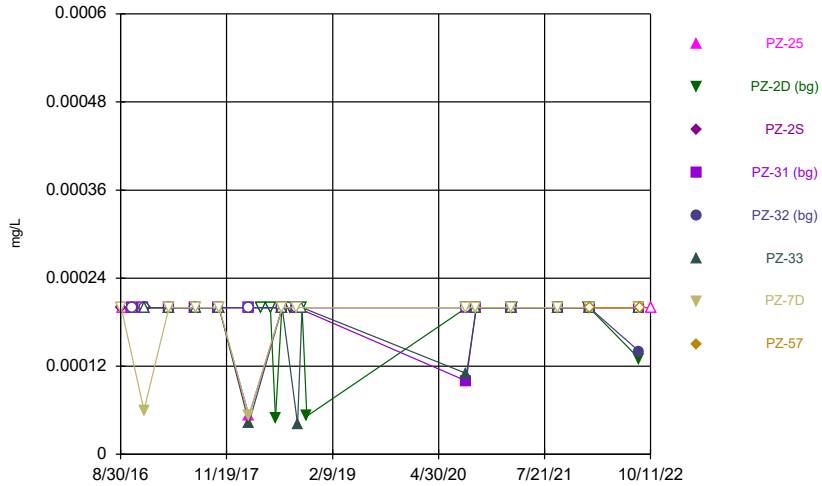
Time Series



Constituent: Mercury Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

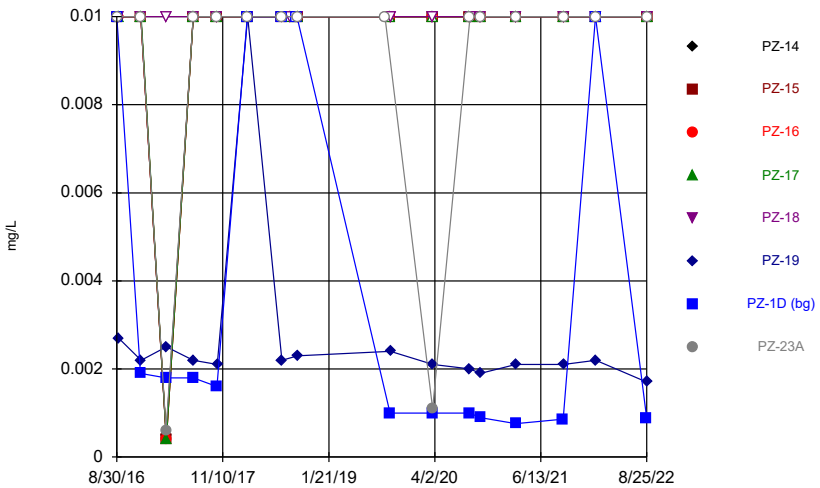
Time Series



Constituent: Mercury Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

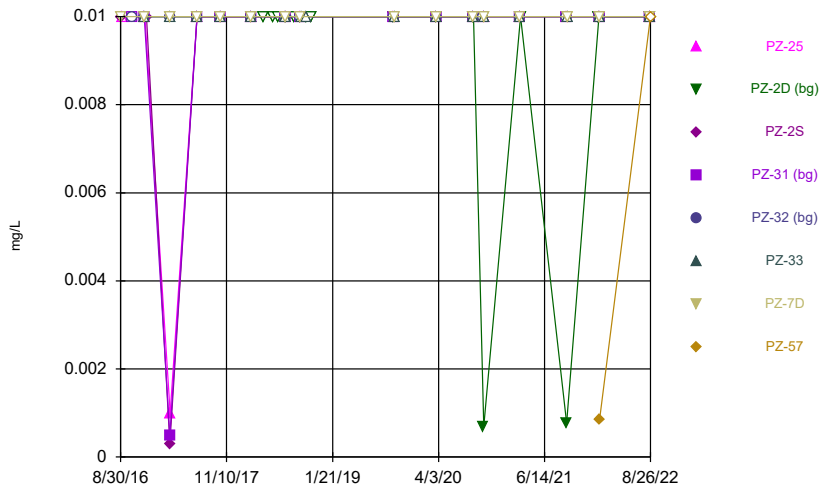
Time Series



Constituent: Molybdenum Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

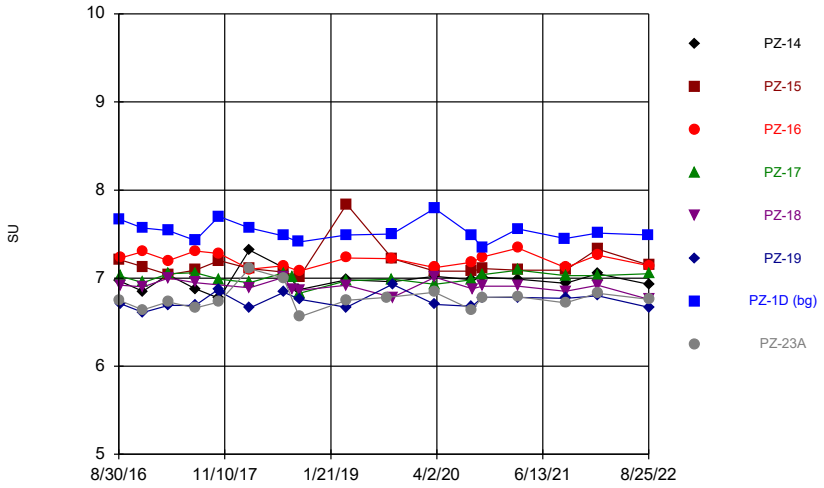
Time Series



Constituent: Molybdenum Analysis Run 11/21/2022 9:20 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

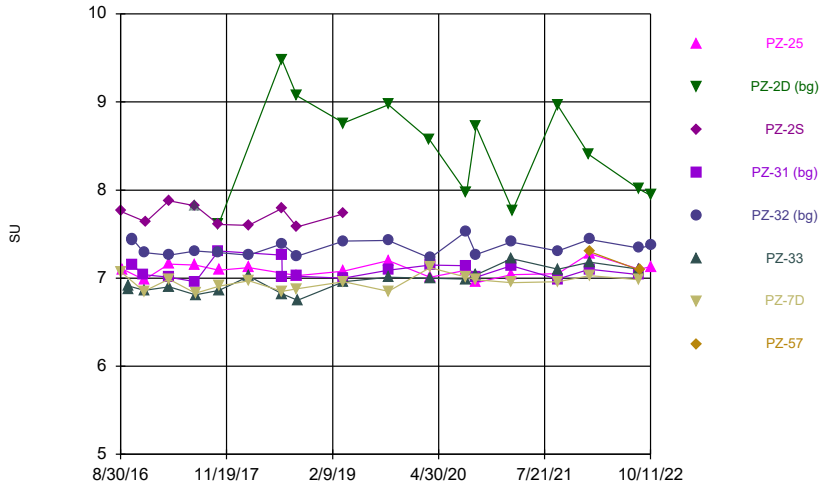


Constituent: pH Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



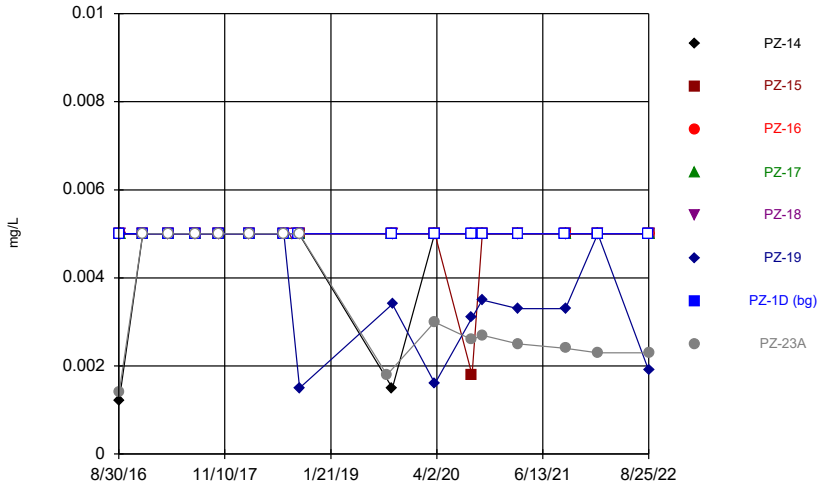
Constituent: pH Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



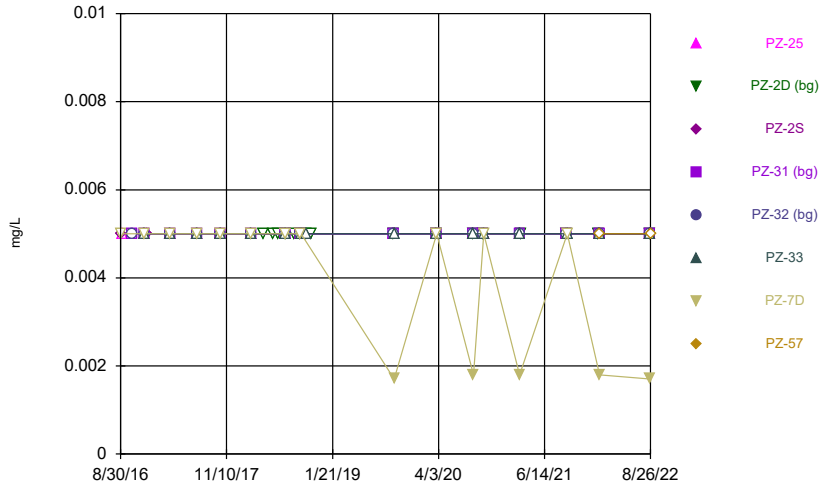
Constituent: Selenium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

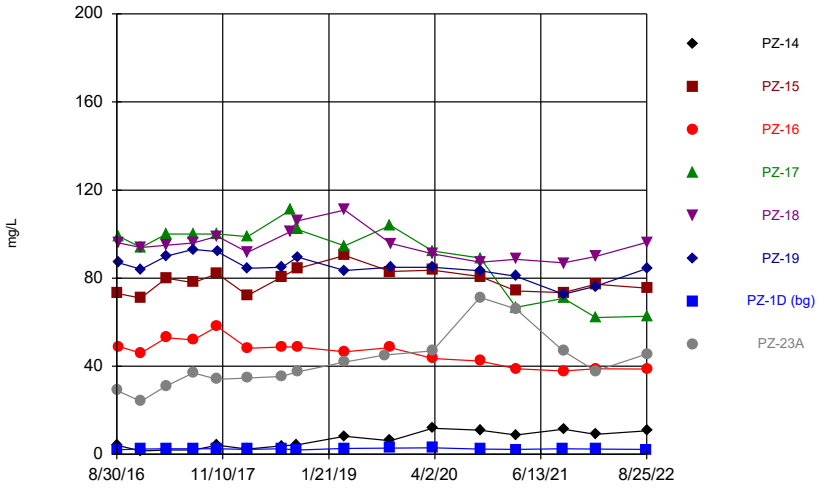


Constituent: Selenium Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

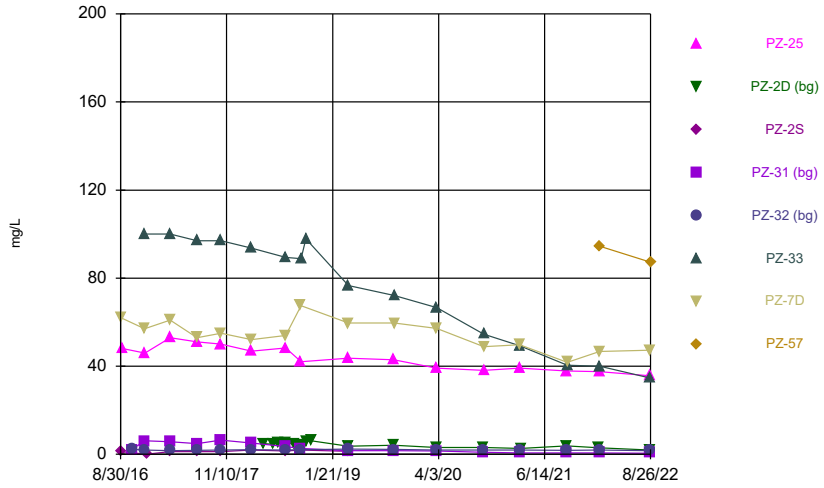


Constituent: Sulfate Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

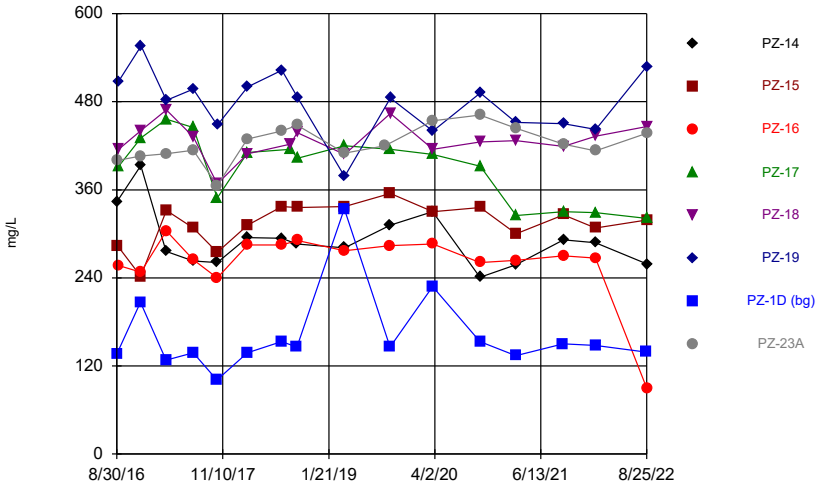


Constituent: Sulfate Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

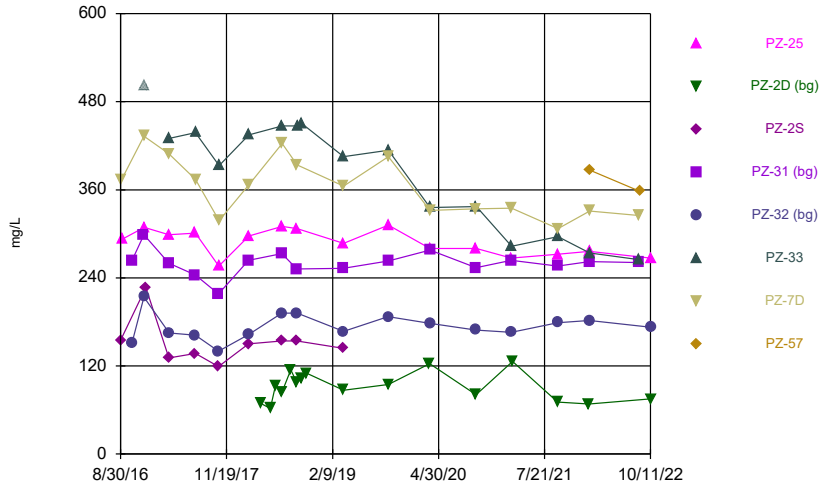


Constituent: TDS Analysis Run 11/21/2022 9:20 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

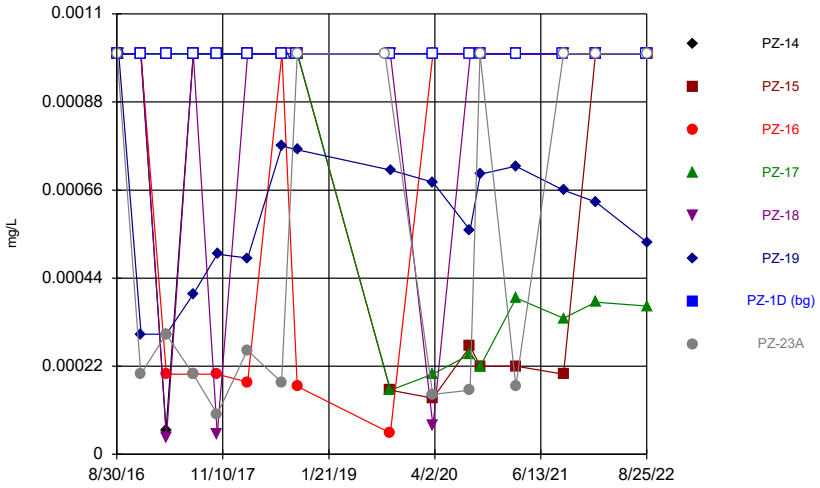


Constituent: TDS Analysis Run 11/21/2022 9:21 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

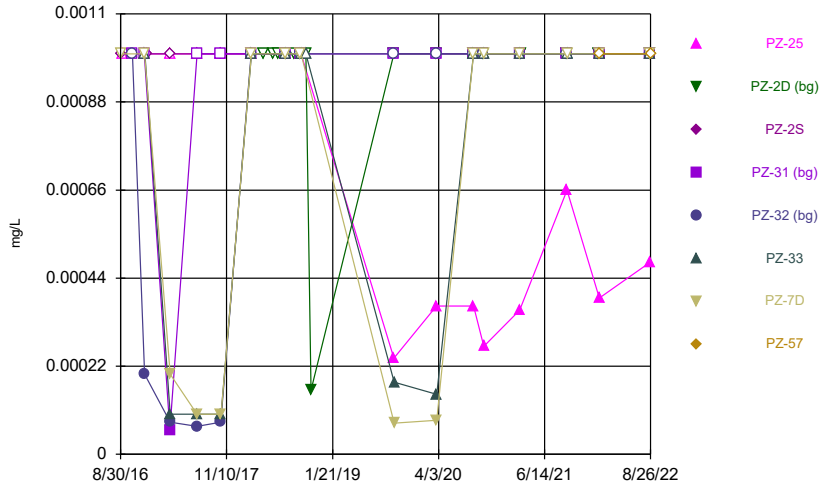
Time Series



Constituent: Thallium Analysis Run 11/21/2022 9:21 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/21/2022 9:21 AM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/21/2022 9:21 AM

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

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/21/2022 9:21 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.003					
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		
12/15/2016			<0.003					
3/21/2017			<0.003	<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	<0.003			
7/12/2017						<0.003	<0.003	
10/17/2017			<0.003	<0.003	<0.003			
10/18/2017	<0.003							
10/19/2017						<0.003	<0.003	
2/20/2018			<0.003	<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	<0.003			
7/12/2018	<0.003					<0.003	<0.003	
8/17/2018		0.00082 (J)						
9/12/2018		<0.003	<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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/21/2022 9:21 AM

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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.005					
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		
12/15/2016			<0.005					
3/21/2017			<0.005	<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	<0.005			
7/12/2017						<0.005	<0.005	
10/17/2017			<0.005	<0.005	<0.005			
10/18/2017	<0.005							
10/19/2017						<0.005	<0.005	
2/20/2018			<0.005	<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	<0.005			
7/12/2018	<0.005					<0.005	<0.005	
8/17/2018		0.00062 (J)						
9/12/2018		<0.005	<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

Time Series

Constituent: Barium (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Barium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			0.0137					
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)		
12/15/2016			0.0131					
3/21/2017			0.0085	0.0226				
3/22/2017	0.0951						0.0114	
3/23/2017					0.0175	0.0753		
7/11/2017	0.102		0.0088	0.0139	0.0161			
7/12/2017						0.0756	0.0097 (J)	
10/17/2017			0.0084	0.0103	0.0158			
10/18/2017	0.0997							
10/19/2017						0.0681	0.0091 (J)	
2/20/2018			0.009	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)	0.0069	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	0.0079	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	0.0068	0.14
8/24/2022	0.1	0.01		0.0063	0.019	0.038		
8/25/2022							0.0058	
8/26/2022								0.064

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.0005					
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		
12/15/2016			<0.0005					
3/21/2017			<0.0005	<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	<0.0005			
7/12/2017						<0.0005	<0.0005	
10/17/2017			<0.0005	<0.0005	<0.0005			
10/18/2017	<0.0005							
10/19/2017						<0.0005	<0.0005	
2/20/2018			<0.0005	<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	<0.0005			
7/12/2018	<0.0005					<0.0005	<0.0005	
8/17/2018		<0.0005						
9/12/2018		<0.0005	<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

Time Series

Constituent: Boron (mg/L) Analysis Run 11/21/2022 9:22 AM

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)

Time Series

Constituent: Boron (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			0.0168					
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		
12/15/2016			0.0163					
3/21/2017			0.0126	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	<0.04			
7/12/2017						0.343	0.267	
10/17/2017			0.0086	0.0116 (J)	0.0142 (J)			
10/18/2017	0.186							
10/19/2017						0.413	0.326	
2/20/2018			<0.04	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)	0.0099	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)	0.012	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			0.0092	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	0.23	0.19
8/24/2022	0.19	0.012 (J)		<0.04	0.022 (J)	0.32		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/25/2022							0.2	
8/26/2022								0.18

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.0005					
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		
12/15/2016			<0.0005					
3/21/2017			<0.0005	<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	<0.0005			
7/12/2017						<0.0005	<0.0005	
10/17/2017			<0.0005	<0.0005	<0.0005			
10/18/2017	<0.0005							
10/19/2017						<0.0005	<0.0005	
2/20/2018			<0.0005	<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	<0.0005			
7/12/2018	<0.0005					<0.0005	<0.0005	
8/17/2018		<0.0005						
9/12/2018		<0.0005	<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

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			45					
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		
12/15/2016			45					
3/21/2017			45.9	94				
3/22/2017	85.3						111	
3/23/2017					59.1	122		
7/11/2017	93		50.7	86	59.7			
7/12/2017						124	119	
10/17/2017			49.8	91.6	64.9			
10/18/2017	87.6							
10/19/2017						118	107	
2/20/2018			44.4	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	44.9	95.4	60.4			
7/12/2018	87.1					129	121	
8/17/2018		27						
9/12/2018		26.9	46.6	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			44.6	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	112	106
8/24/2022	87.6	27.3		95.2	67.1	96.5		
8/25/2022							107	
8/26/2022								95.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			2.9					
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		
12/15/2016			0.05					
3/21/2017			2.8	4.3				
3/22/2017	3.3						7.2	
3/23/2017					2.9	6.2		
7/11/2017	3		3.1	4.7	3.1			
7/12/2017						6	7.3	
10/17/2017			3	4.6	3			
10/18/2017	2.9							
10/19/2017						6.4	7.4	
2/20/2018			2.9	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	2.7	4	2.8			
7/12/2018	2.6					7.3	7.1	
8/17/2018		2.6						
9/12/2018		2.3	2.4	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			2.9	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	3.8	3.2
8/24/2022	1.8	2.1		3	2.7	1.8		
8/25/2022							4.1	
8/26/2022								2.4

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/21/2022 9:22 AM

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)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			0.0021					
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		0.003 (J)	
12/8/2016	<0.005					<0.005		
12/15/2016			0.0024					
3/21/2017			0.0029	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		0.0033	0.0006 (J)	<0.005			
7/12/2017						<0.005	<0.005	
10/17/2017			0.004	0.0008 (J)	0.0005 (J)			
10/18/2017	<0.005							
10/19/2017						<0.005	0.0005 (J)	
2/20/2018			0.003	<0.005	<0.005			
2/21/2018	<0.005					<0.005	<0.005	
4/12/2018		0.01						
5/23/2018		0.011						
6/13/2018		0.011						
7/11/2018		0.0096 (J)	0.0039	<0.005	<0.005			
7/12/2018	<0.005					<0.005	<0.005	
8/17/2018		0.0078 (J)						
9/12/2018		0.0056 (J)	0.0029	<0.005				
9/13/2018	<0.005				<0.005		<0.005	
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	0.0034 (J)	<0.005
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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.005					
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	<0.005					0.0041 (J)		
12/15/2016			<0.005					
3/21/2017			<0.005	<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	<0.005			
7/12/2017						0.0007 (J)	<0.005	
10/17/2017			<0.005	<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	<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	<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	<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	<0.005	0.0043 (J)
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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/21/2022 9:22 AM

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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			1.13					
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)		
12/15/2016			1.88					
3/21/2017			1.07	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		1.02	0.0701 (U)	1.04			
7/12/2017						0.814 (U)	0.125 (U)	
10/17/2017			1.17	0.412 (U)	0.779 (U)			
10/18/2017	0.678 (U)							
10/19/2017						0.748 (U)	0.329 (U)	
2/20/2018			1.11	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	1.2	0.749 (U)	0.505 (U)			
7/12/2018	1.42					0.751 (U)	0.188 (U)	
9/12/2018		0.217 (U)	1.07	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)	0.315 (U)	1.13
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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 9:22 AM

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						<0.1		
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		<0.1		
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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			0.09					
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)		
12/15/2016			<0.1					
3/21/2017			<0.1	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)		0.02	0.06 (J)	0.02 (J)			
7/12/2017						0.06 (J)	0.02 (J)	
10/17/2017			0.06	0.05 (J)	<0.1			
10/18/2017	0.28 (J)							
10/19/2017						<0.1	<0.1	
2/20/2018			0.17	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	<0.1	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)	<0.1	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	<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	<0.1	0.057 (J)
8/24/2022	0.15	0.088 (J)		0.069 (J)	0.058 (J)	0.092 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/25/2022							0.056 (J)	
8/26/2022								0.083 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Lead (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			0.0002					
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		
12/15/2016			0.0002					
3/21/2017			<0.001	<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	<0.001			
7/12/2017						<0.001	<0.001	
10/17/2017			<0.001	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	<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	<0.001			
7/12/2018	<0.001					<0.001	<0.001	
8/17/2018		<0.001						
9/12/2018		<0.001	<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

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/21/2022 9:22 AM

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	<0.03	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	<0.03	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

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.03					
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		
12/15/2016			<0.03					
3/21/2017			<0.03	<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	<0.03			
7/12/2017						<0.03	0.0033 (J)	
10/17/2017			<0.03	<0.03	<0.03			
10/18/2017	0.0057 (J)							
10/19/2017						<0.03	<0.03	
2/20/2018			<0.03	<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	<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	<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	0.0039 (J)	0.002 (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)

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.0002					
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		
12/15/2016			<0.0002					
3/21/2017			<0.0002	<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	<0.0002			
7/12/2017						<0.0002	<0.0002	
10/17/2017			<0.0002	<0.0002	<0.0002			
10/18/2017	<0.0002							
10/19/2017						<0.0002	<0.0002	
2/20/2018			<0.0002	<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	<0.0002			
7/12/2018	<0.0002					<0.0002	<0.0002	
8/17/2018		<0.0002						
9/12/2018		<0.0002	<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							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.01					
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		
12/15/2016			<0.01					
3/21/2017			0.0003	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	<0.01			
7/12/2017						<0.01	<0.01	
10/17/2017			<0.01	<0.01	<0.01			
10/18/2017	<0.01							
10/19/2017						<0.01	<0.01	
2/20/2018			<0.01	<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	<0.01			
7/12/2018	<0.01					<0.01	<0.01	
8/17/2018		<0.01						
9/12/2018		<0.01	<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	<0.01	0.00085 (J)
8/24/2022	<0.01	<0.01		<0.01	<0.01	<0.01		
8/25/2022							<0.01	
8/26/2022								<0.01

Time Series

Constituent: pH (SU) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: pH (SU) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			7.76					
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		
12/15/2016			7.64					
3/21/2017			7.88	7.01				
3/22/2017	7.16						6.99	
3/23/2017					7.26	6.9		
7/11/2017	7.15		7.82	6.96	7.31	7.82 (o)		
7/12/2017						6.81	6.83	
10/17/2017		7.61	7.61	7.31	7.29			
10/18/2017	7.09							
10/19/2017						6.86	6.91	
2/20/2018			7.6		7.26			
2/21/2018	7.12					7.02	6.97	
7/11/2018		9.48	7.79	7.26	7.39			
7/12/2018				7.01		6.82	6.85	
9/12/2018		9.07	7.58	7.02				
9/13/2018	7.03				7.25		6.88	
9/14/2018						6.75		
3/26/2019			7.73	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	7.03	7.3
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			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/21/2022 9:22 AM

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	<0.005		
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		<0.005	<0.005	<0.005	<0.005			
3/23/2017						<0.005		
7/11/2017	<0.005		<0.005				<0.005	<0.005
7/12/2017		<0.005		<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		<0.005	<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		0.0015 (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)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.005					
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		
12/15/2016			<0.005					
3/21/2017			<0.005	<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	<0.005			
7/12/2017						<0.005	<0.005	
10/17/2017			<0.005	<0.005	<0.005			
10/18/2017	<0.005							
10/19/2017						<0.005	<0.005	
2/20/2018			<0.005	<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	<0.005			
7/12/2018	<0.005					<0.005	<0.005	
8/17/2018		<0.005						
9/12/2018		<0.005	<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	0.0018 (J)	<0.005
8/24/2022	<0.005	<0.005		<0.005	<0.005	<0.005		
8/25/2022							0.0017 (J)	
8/26/2022								<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			1.2					
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		
12/15/2016			0.07					
3/21/2017			1.2	5.7				
3/22/2017	53						61	
3/23/2017					1.7	100		
7/11/2017	51		1.2	4.8	1.8			
7/12/2017						97	53	
10/17/2017			1.2	6.4	1.9			
10/18/2017	50							
10/19/2017						97	55	
2/20/2018			1.9	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	1.5	3.6	2			
7/12/2018	48.3					89.4	53.9	
8/17/2018		4.5						
9/12/2018		4.4	1.9	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			1.4	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	46.7	94.5
8/24/2022	35.7	2		0.56 (J)	1.7	34.7		
8/25/2022							47.3	
8/26/2022								87.2

Time Series

Constituent: TDS (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

Constituent: TDS (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			155					
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)		
12/15/2016			227					
3/21/2017			131	260				
3/22/2017	299						409	
3/23/2017					165	430		
7/11/2017	301		137	244	162			
7/12/2017						438	374	
10/17/2017			119	218	140			
10/18/2017	256							
10/19/2017						393	318	
2/20/2018			150	264	163			
2/21/2018	297					435	367	
4/12/2018		69						
5/23/2018		62						
6/13/2018		93						
7/11/2018		84	154	273	192			
7/12/2018	310					447	423	
8/17/2018		115						
9/12/2018		97	154	252				
9/13/2018	307				192		394	
9/14/2018						447		
10/4/2018		103				450		
10/24/2018		110						
3/26/2019			144	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	331	387
8/24/2022				261		265		
8/25/2022							325	
8/26/2022								358

Time Series

Constituent: TDS (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
10/11/2022	267	75			173			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/21/2022 9:22 AM

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

Time Series

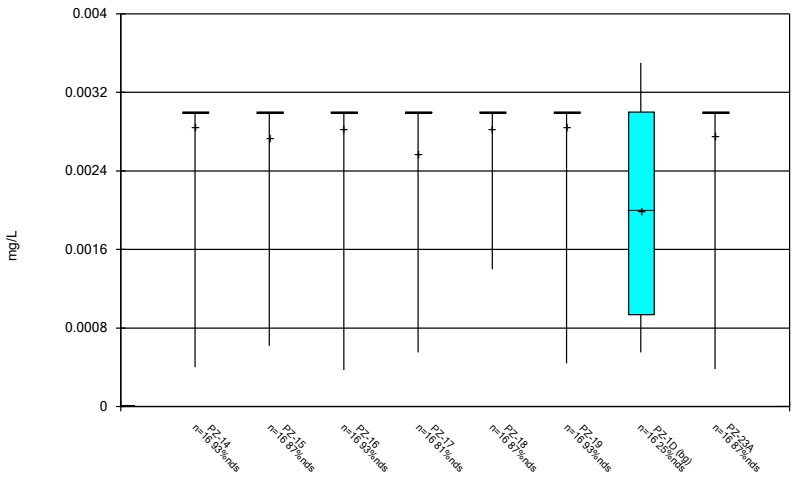
Constituent: Thallium (mg/L) Analysis Run 11/21/2022 9:22 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-2S	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	PZ-57
8/30/2016			<0.001					
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		
12/15/2016			<0.001					
3/21/2017			<0.001	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	<0.001	7E-05 (J)			
7/12/2017						0.0001 (J)	0.0001 (J)	
10/17/2017			<0.001	<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	<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	<0.001			
7/12/2018	<0.001					<0.001	<0.001	
8/17/2018		<0.001						
9/12/2018		<0.001	<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

FIGURE B.

Box & Whiskers Plot

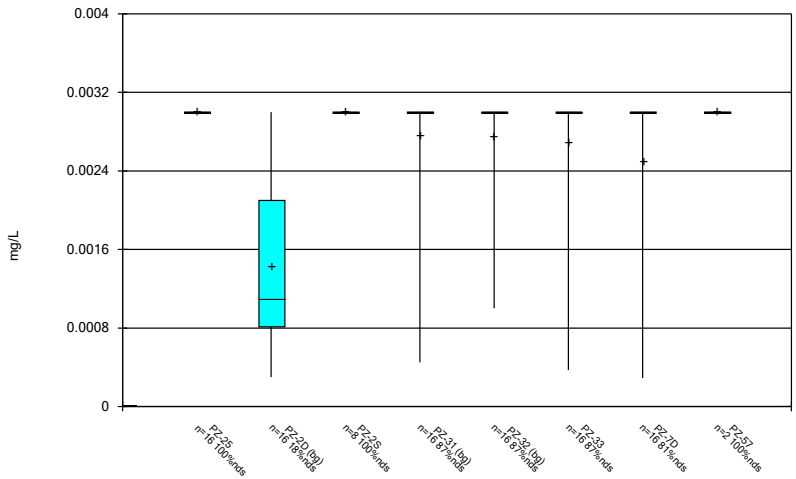


Constituent: Antimony Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

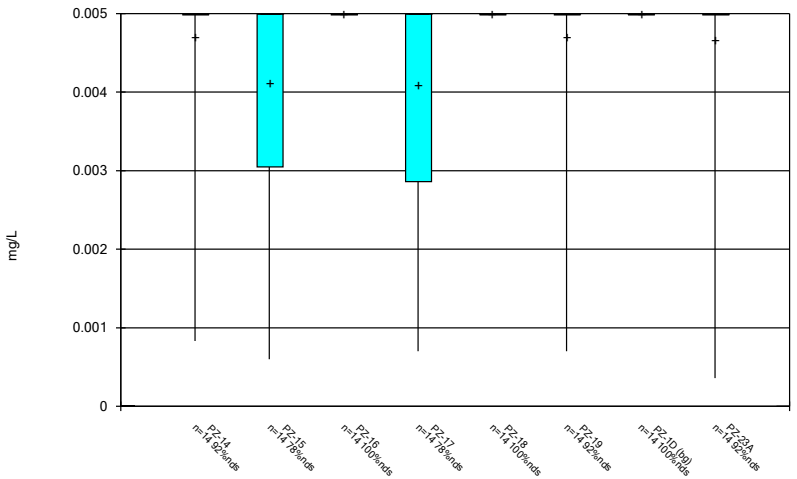


Constituent: Antimony Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

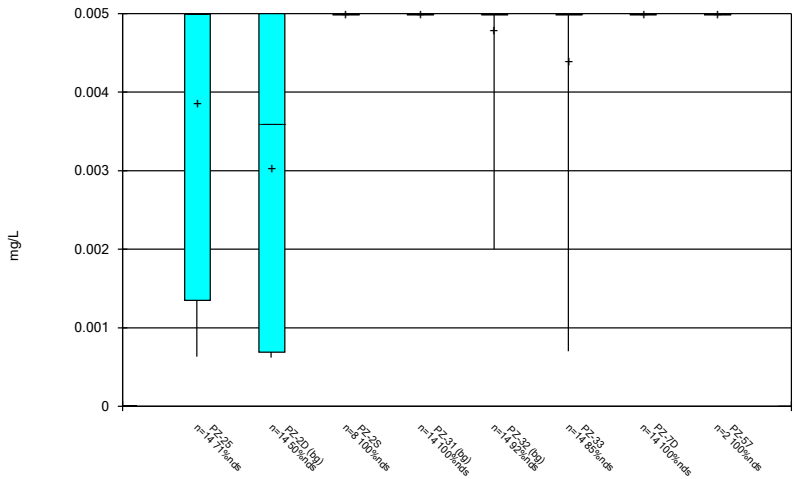


Constituent: Arsenic Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

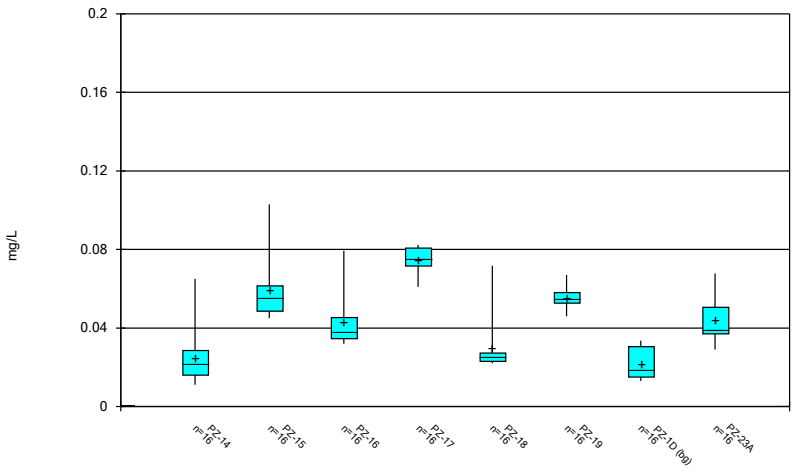
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

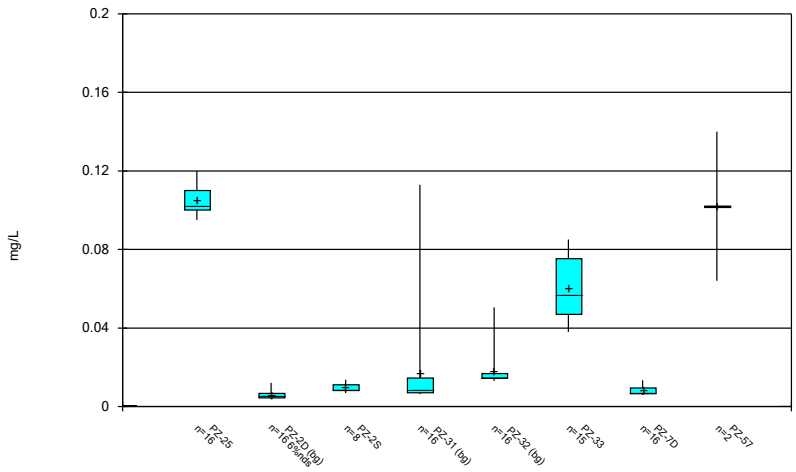


Constituent: Barium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

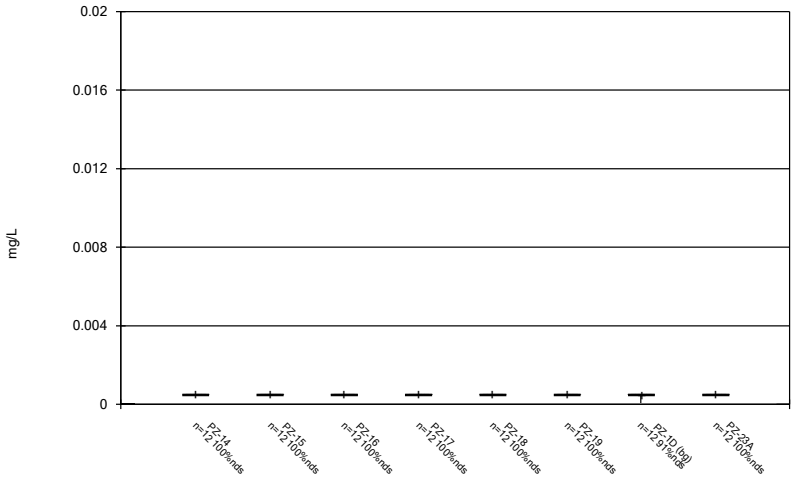


Constituent: Barium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

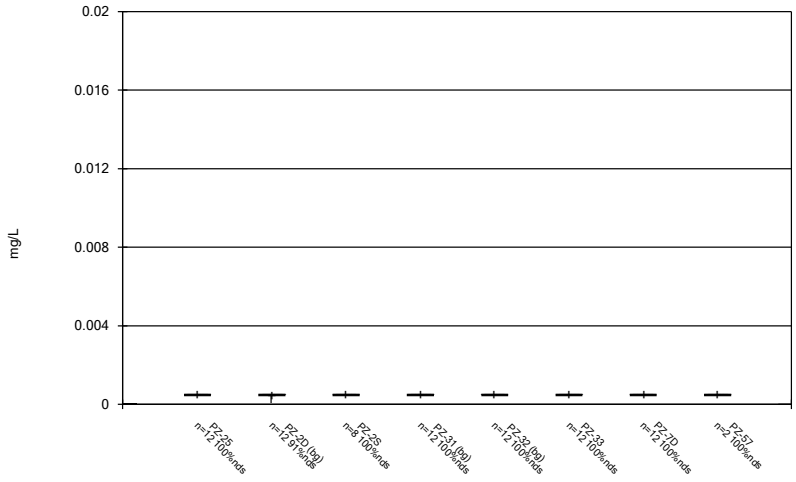


Constituent: Beryllium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

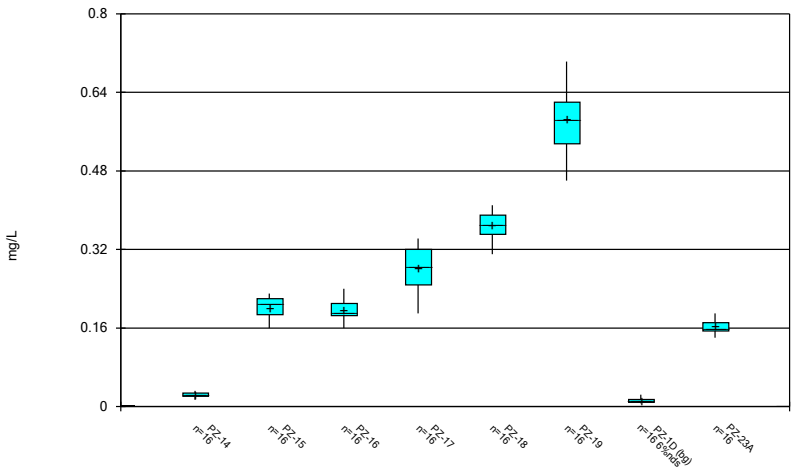


Constituent: Beryllium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

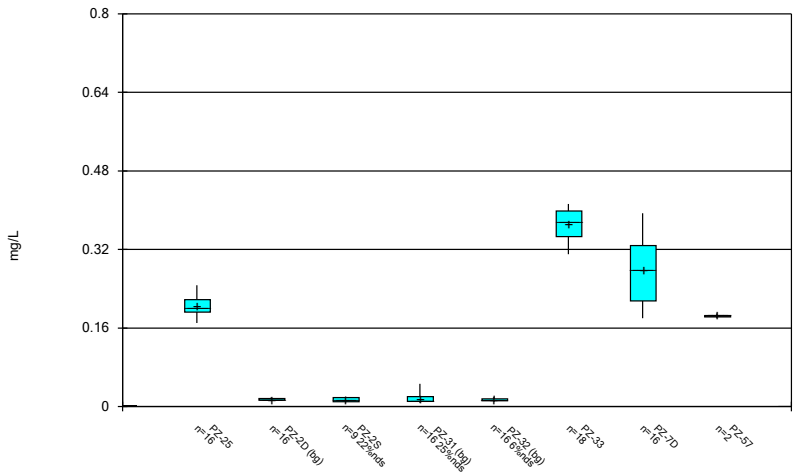


Constituent: Boron Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

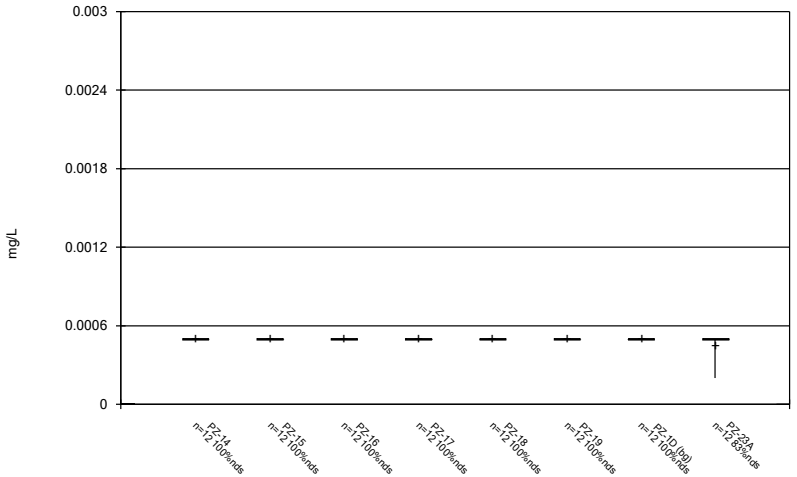


Constituent: Boron Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

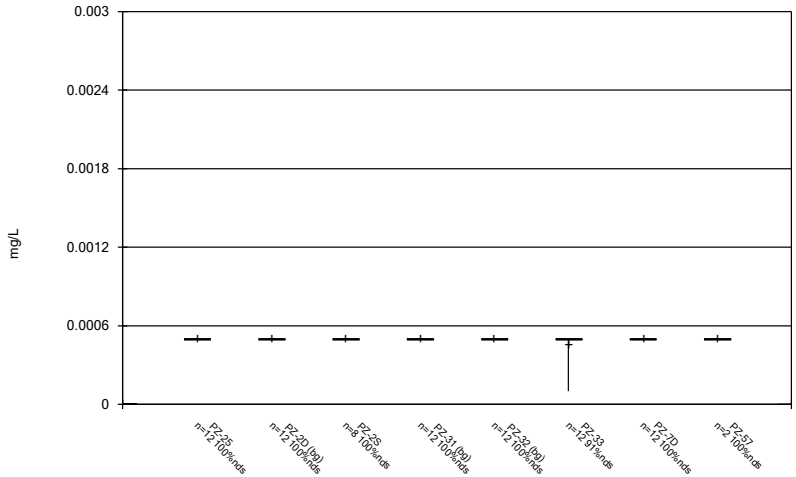


Constituent: Cadmium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

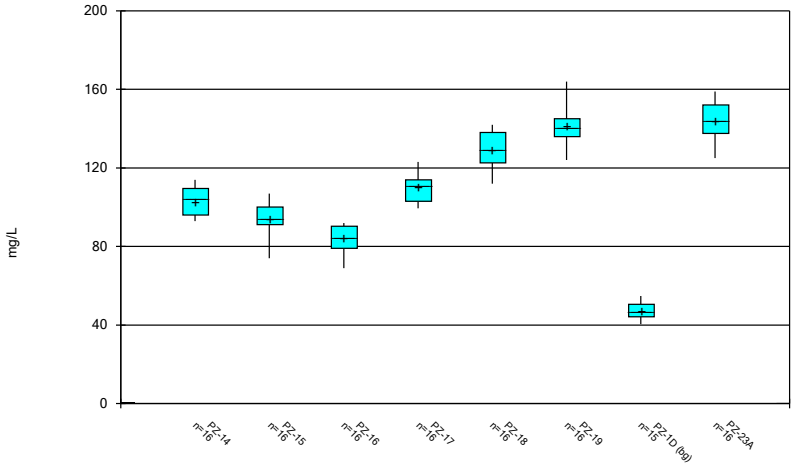
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

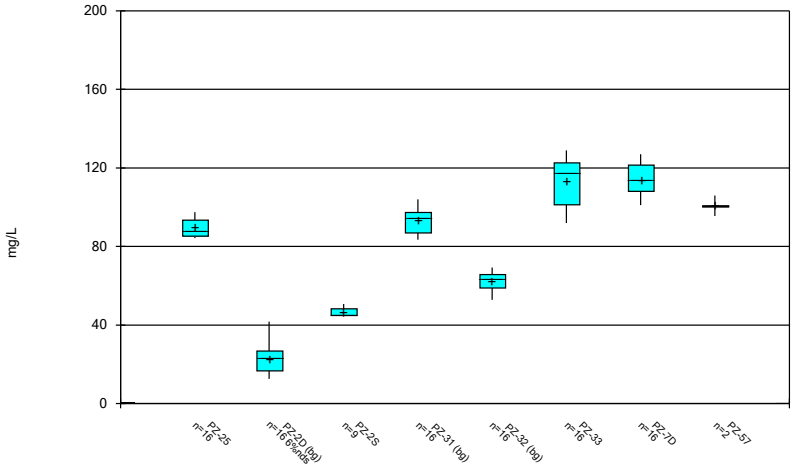


Constituent: Calcium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

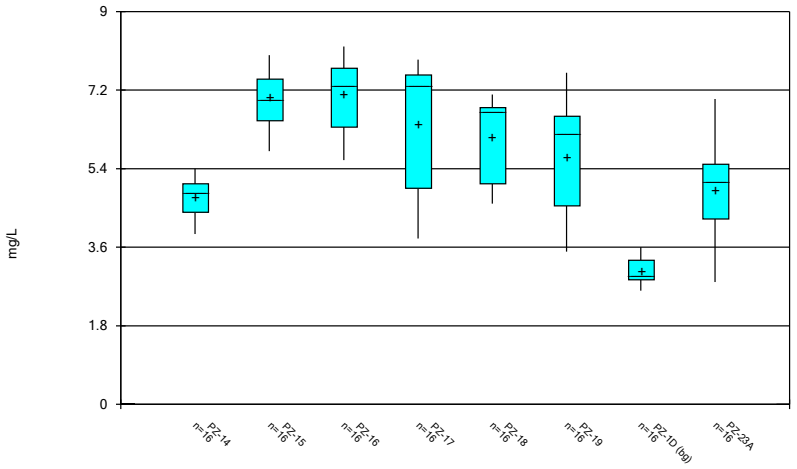


Constituent: Calcium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

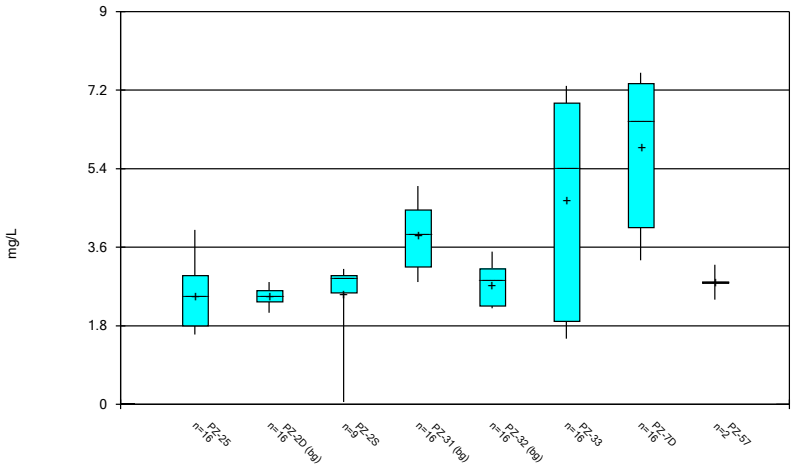


Constituent: Chloride Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

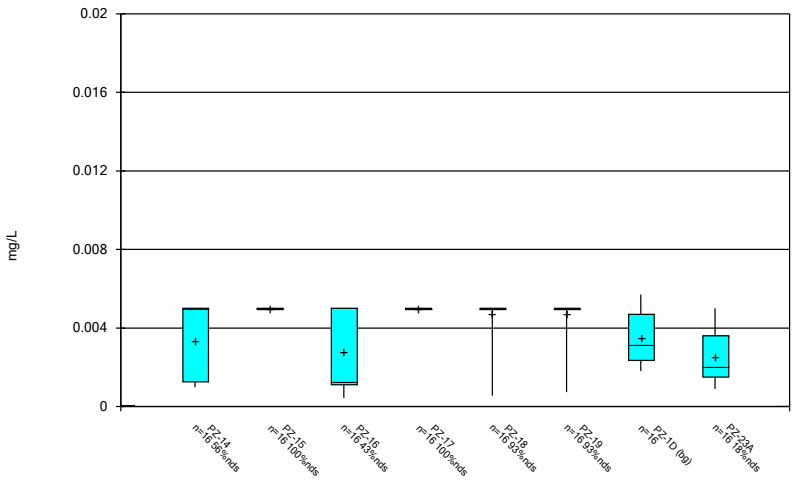
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

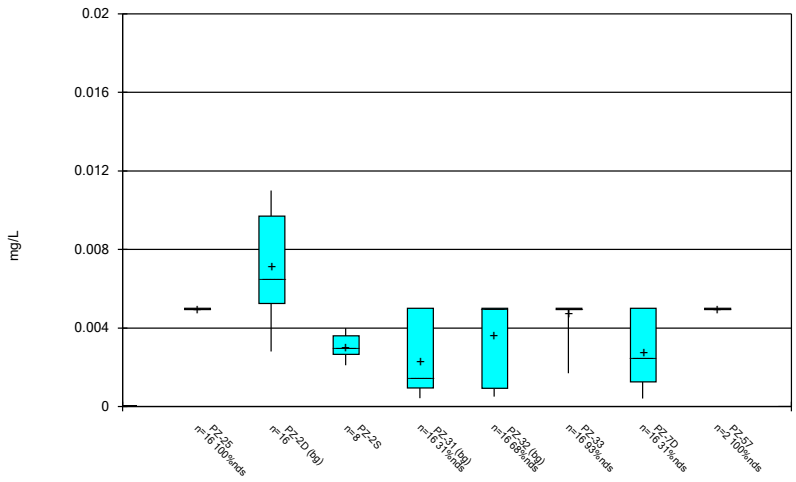


Constituent: Chromium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

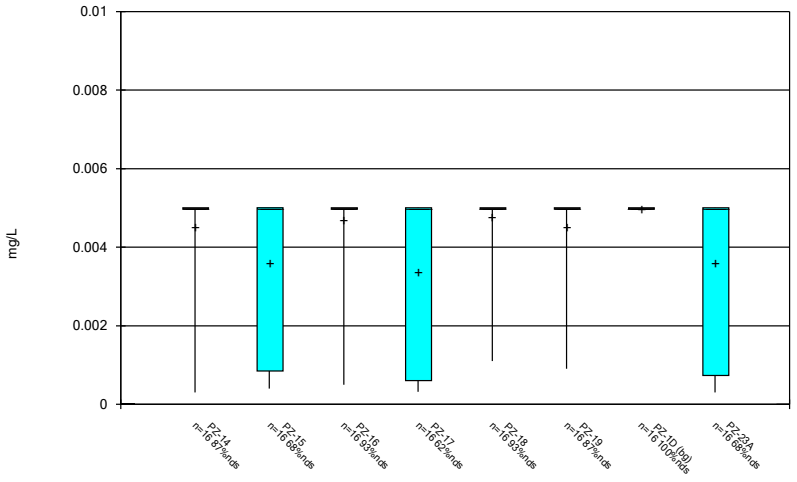


Constituent: Chromium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

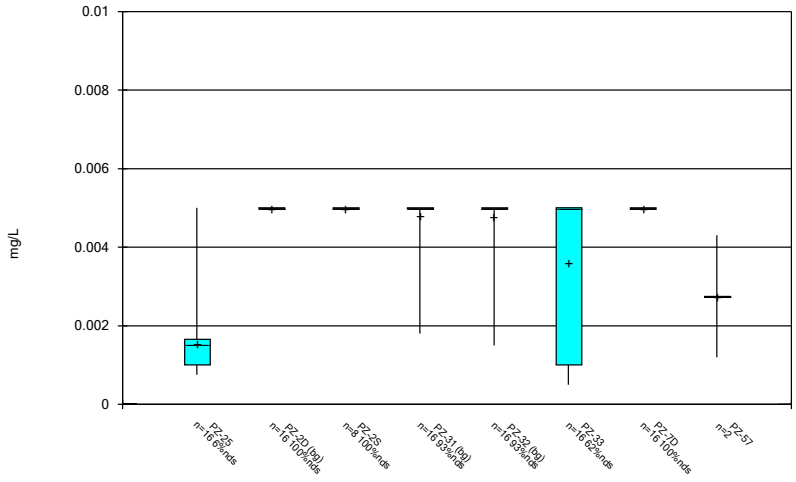


Constituent: Cobalt Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

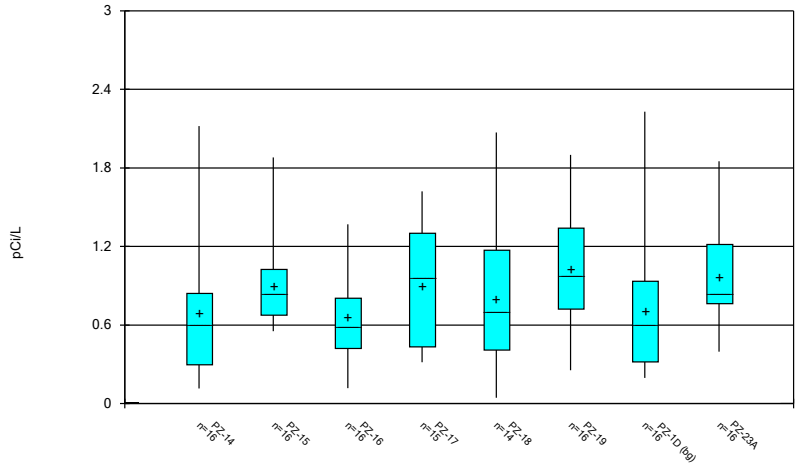
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

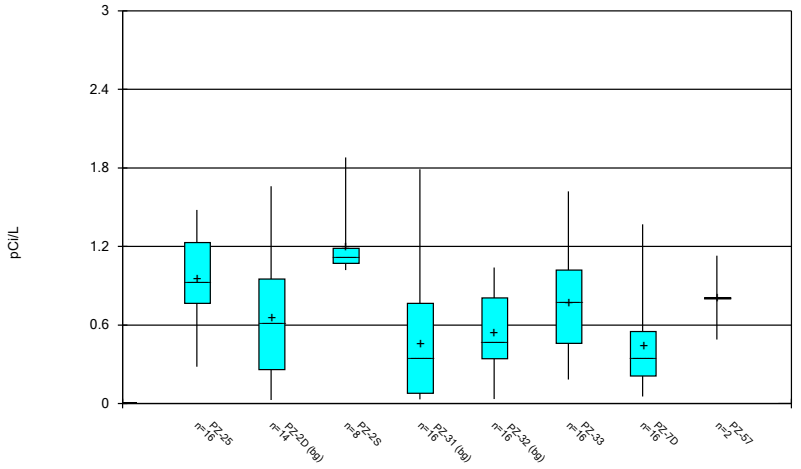


Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

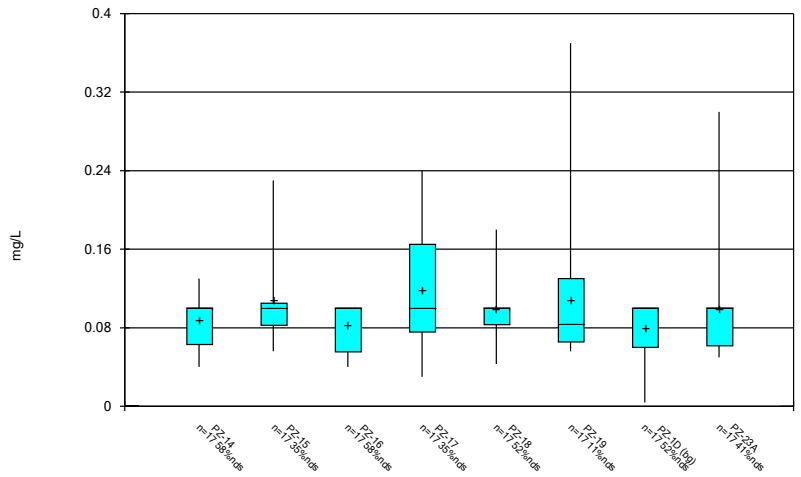


Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

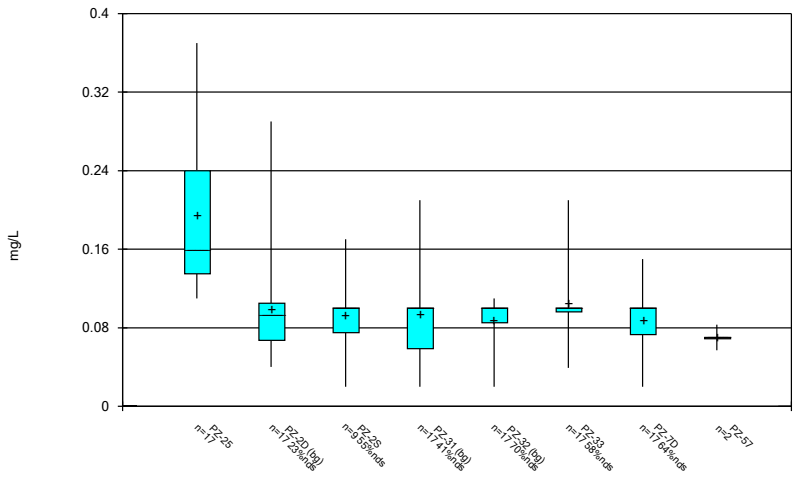


Constituent: Fluoride Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

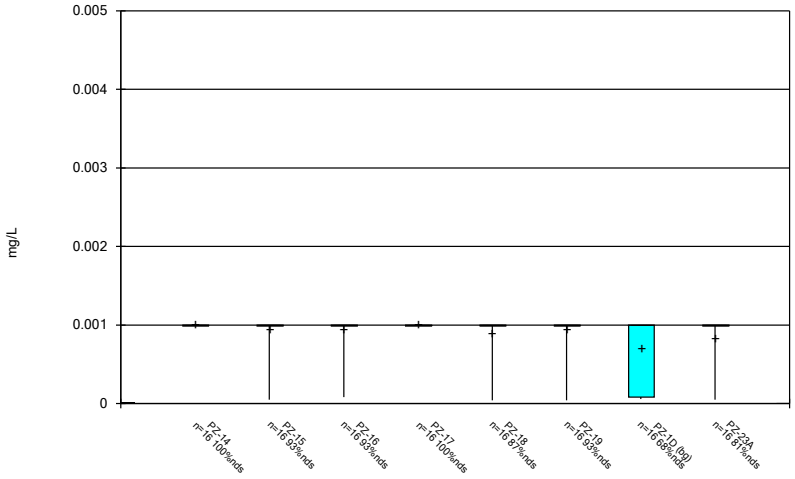
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

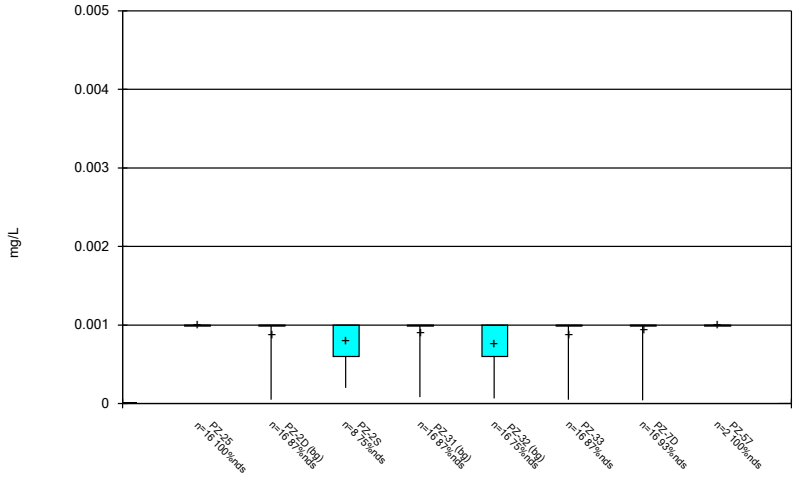


Constituent: Lead Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

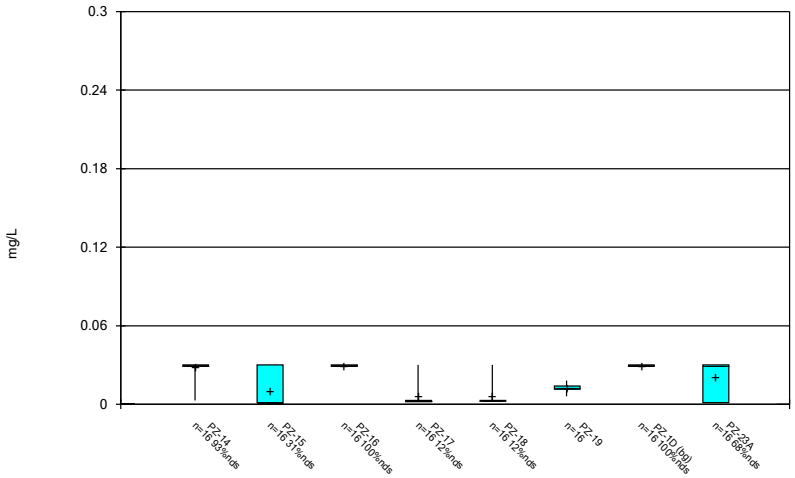


Constituent: Lead Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

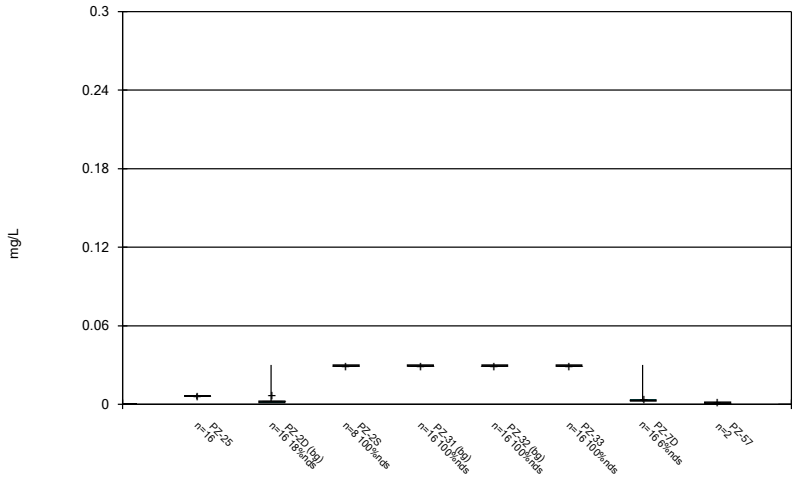


Constituent: Lithium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

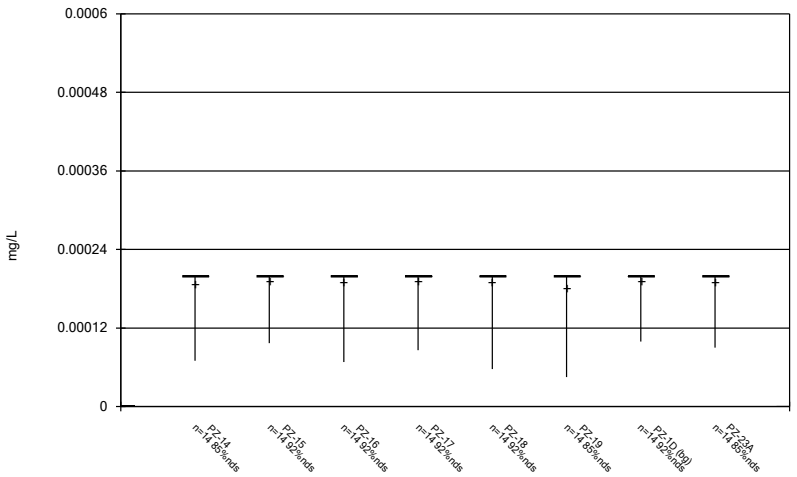
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

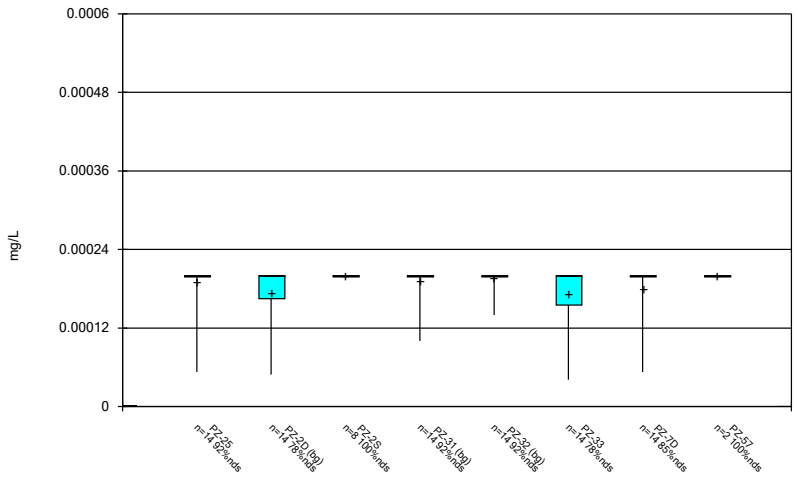


Constituent: Mercury Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

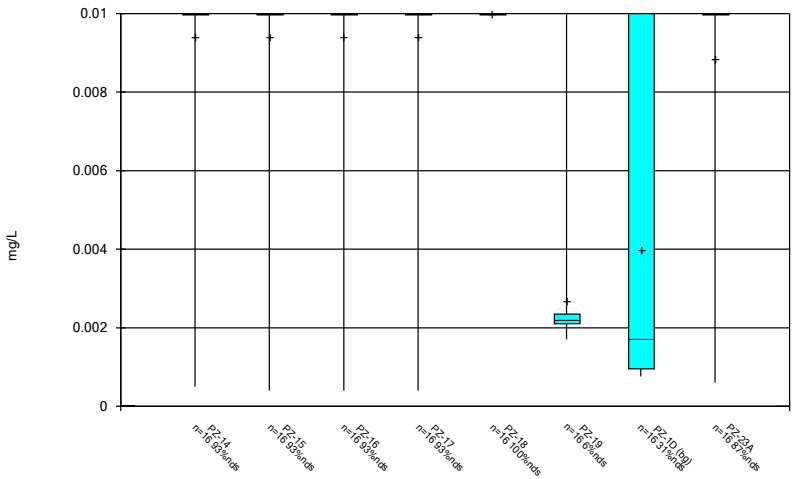


Constituent: Mercury Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

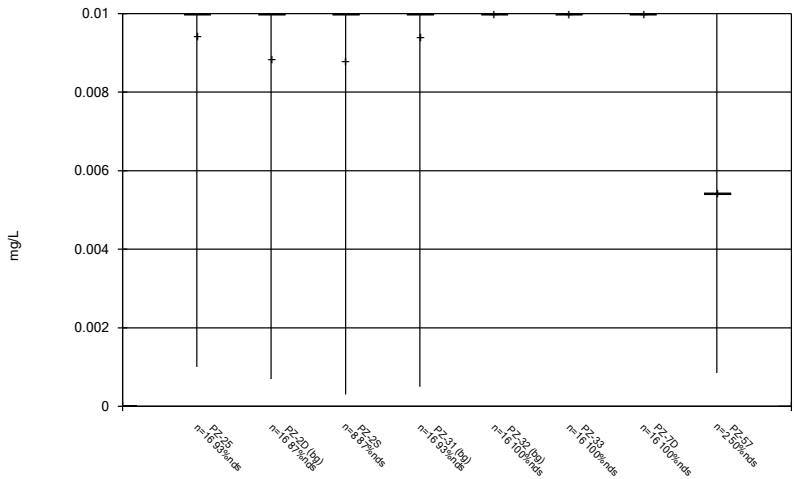


Constituent: Molybdenum Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

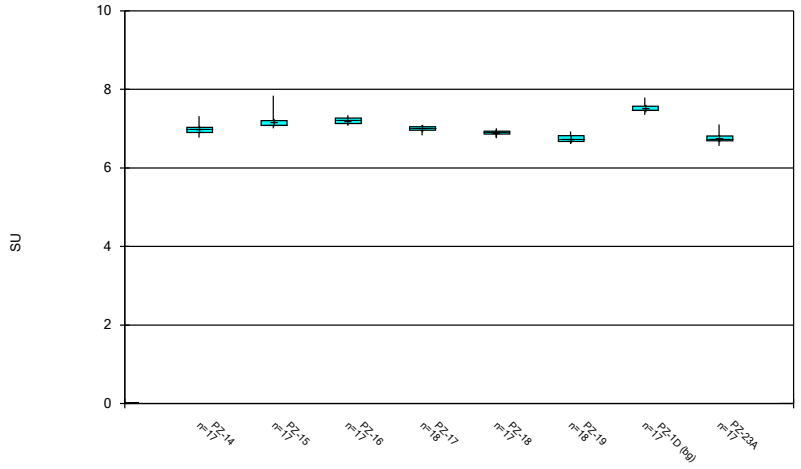
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/21/2022 9:27 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

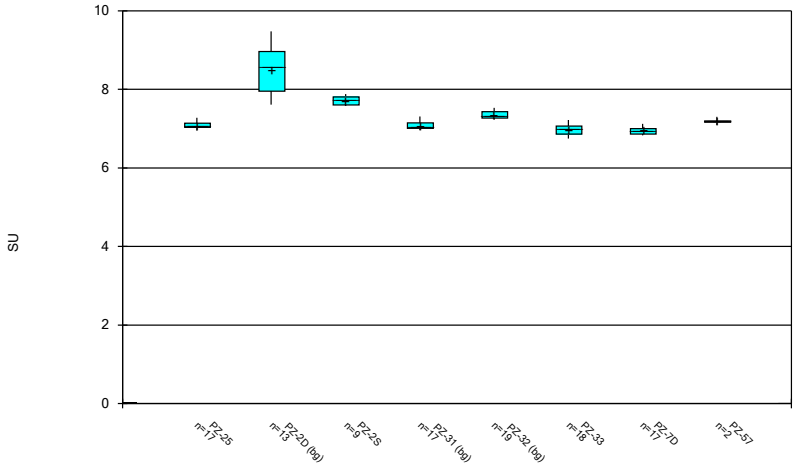


Constituent: pH Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

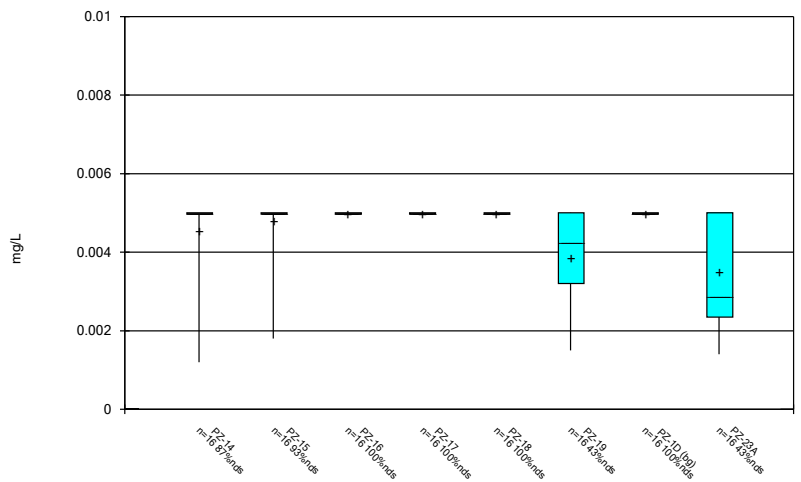


Constituent: pH Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

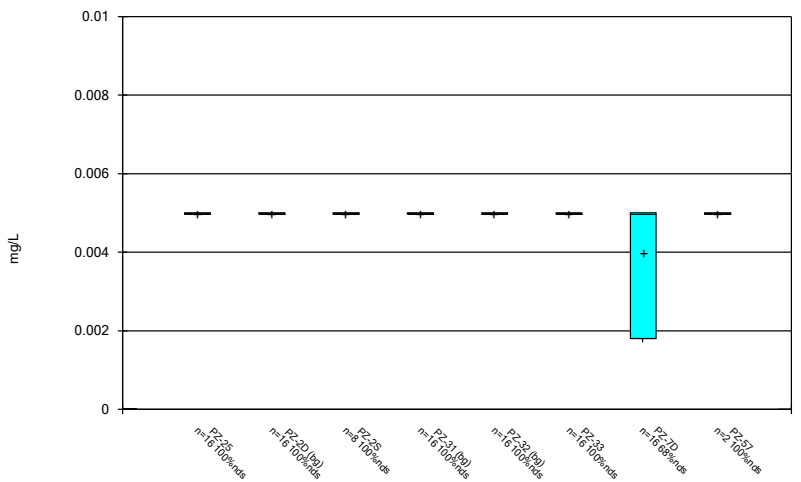


Constituent: Selenium Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

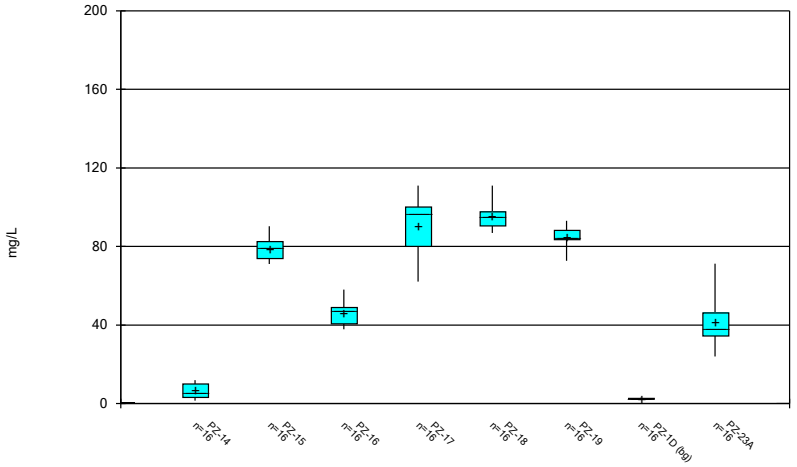
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

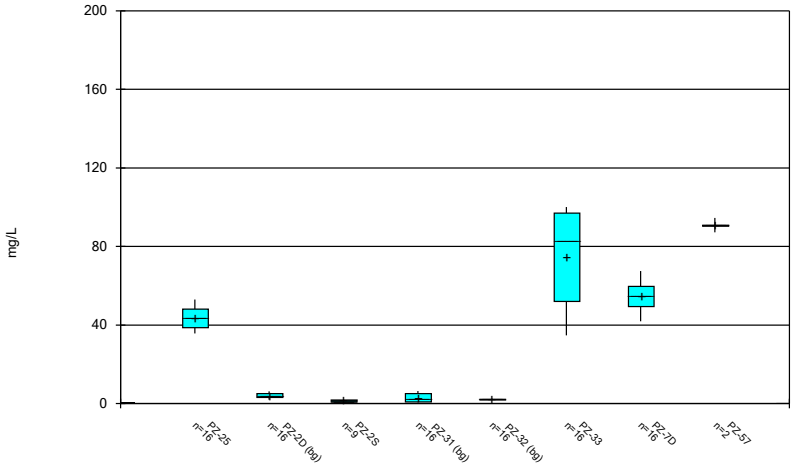


Constituent: Sulfate Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

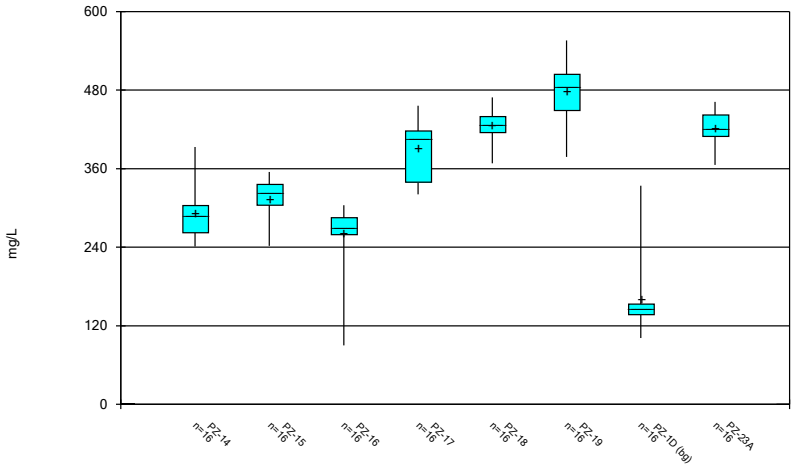


Constituent: Sulfate Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

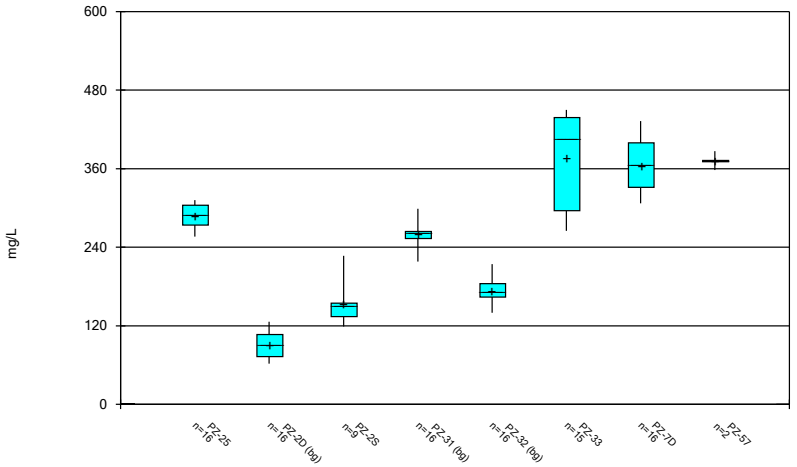


Constituent: TDS Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

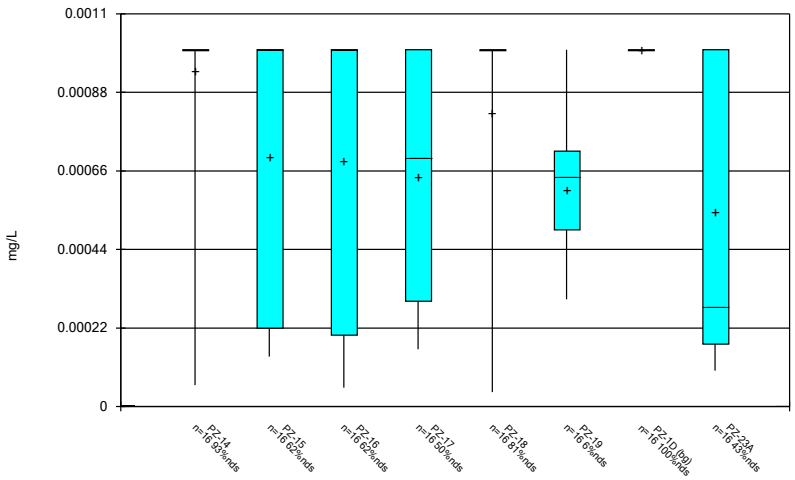
Box & Whiskers Plot



Constituent: TDS Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot

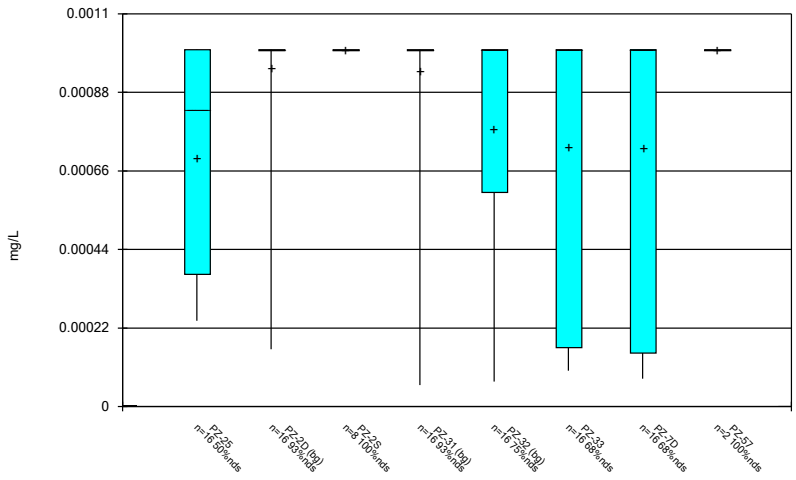


Constituent: Thallium Analysis Run 11/21/2022 9:28 AM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/21/2022 9:28 AM

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 11/6/2022, 12:51 AM

	PZ-33 Barium (mg/L)	PZ-1D Calcium (mg/L)	PZ-33 pH (SU)	PZ-33 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.

Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02661	n/a	8/25/2022	0.21	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02661	n/a	8/25/2022	0.24	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02661	n/a	8/25/2022	0.39	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02661	n/a	8/25/2022	0.58	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02661	n/a	8/24/2022	0.19	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02661	n/a	8/24/2022	0.32	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02661	n/a	8/25/2022	0.2	Yes	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.6	n/a	8/25/2022	141	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.6	n/a	8/25/2022	156	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.6	n/a	8/25/2022	145	Yes	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.526	n/a	8/25/2022	6.4	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.526	n/a	8/25/2022	6.3	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.526	n/a	8/25/2022	4.6	Yes	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	8/25/2022	6.93	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	8/25/2022	6.76	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	8/25/2022	6.67	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	8/25/2022	6.76	Yes	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.172	n/a	8/25/2022	10.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.172	n/a	8/25/2022	75.5	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.172	n/a	8/25/2022	38.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.172	n/a	8/25/2022	62.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.172	n/a	8/25/2022	96.3	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.172	n/a	8/25/2022	84.4	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.172	n/a	8/25/2022	45.6	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.172	n/a	8/24/2022	35.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.172	n/a	8/24/2022	34.7	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.172	n/a	8/25/2022	47.3	Yes	64	1.633	0.4252	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	309.4	n/a	8/25/2022	319	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	309.4	n/a	8/25/2022	321	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	309.4	n/a	8/25/2022	446	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	309.4	n/a	8/25/2022	528	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	309.4	n/a	8/25/2022	437	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	309.4	n/a	8/25/2022	325	Yes	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02661	n/a	8/25/2022	0.032J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02661**	**n/a**	**8/25/2022**	**0.21**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02661**	**n/a**	**8/25/2022**	**0.24**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	PZ-17	0.02661	n/a	8/25/2022	0.19J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-18**	**0.02661**	**n/a**	**8/25/2022**	**0.39**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02661**	**n/a**	**8/25/2022**	**0.58**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	PZ-23A	0.02661	n/a	8/25/2022	0.17J	No	64	-4.313	0.3429	9.375	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-25**	**0.02661**	**n/a**	**8/24/2022**	**0.19**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02661**	**n/a**	**8/24/2022**	**0.32**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02661**	**n/a**	**8/25/2022**	**0.2**	**Yes**	**64**	**-4.313**	**0.3429**	**9.375**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.6	n/a	8/25/2022	108	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.6	n/a	8/25/2022	96.7	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.6	n/a	8/25/2022	92	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.6	n/a	8/25/2022	99.5	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.6**	**n/a**	**8/25/2022**	**141**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.6**	**n/a**	**8/25/2022**	**156**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.6**	**n/a**	**8/25/2022**	**145**	**Yes**	**63**	**56.47**	**26.52**	**1.587**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.6	n/a	8/24/2022	87.6	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.6	n/a	8/24/2022	96.5	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.6	n/a	8/25/2022	107	No	63	56.47	26.52	1.587	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-14**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-15**	**4.526**	**n/a**	**8/25/2022**	**6.4**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.526**	**n/a**	**8/25/2022**	**6.3**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.526	n/a	8/25/2022	3.9	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-18**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-19**	**4.526**	**n/a**	**8/25/2022**	**4.6**	**Yes**	**64**	**1.088**	**0.2104**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-23A	4.526	n/a	8/25/2022	3.2	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.526	n/a	8/24/2022	1.8	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.526	n/a	8/24/2022	1.8	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.526	n/a	8/25/2022	4.1	No	64	1.088	0.2104	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	8/25/2022	0.051J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	8/25/2022	0.074J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	8/25/2022	0.058J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	8/25/2022	0.078J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	8/25/2022	0.052J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	8/25/2022	0.086J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	8/25/2022	0.074J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	8/24/2022	0.15	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	8/24/2022	0.092J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	8/25/2022	0.056J	No	68	n/a	n/a	47.06	n/a	n/a	0.0004111	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**8/25/2022**	**6.93**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	8/25/2022	7.15	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	8/25/2022	7.14	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	8/25/2022	7.05	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**8/25/2022**	**6.76**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**8/25/2022**	**6.67**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**8/25/2022**	**6.76**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009281**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	8/24/2022	7.1	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	8/24/2022	7.1	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	8/25/2022	6.98	No	64	n/a	n/a	0	n/a	n/a	0.0009281	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**6.172**	**n/a**	**8/25/2022**	**10.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.172**	**n/a**	**8/25/2022**	**75.5**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.172**	**n/a**	**8/25/2022**	**38.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.172**	**n/a**	**8/25/2022**	**62.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.172**	**n/a**	**8/25/2022**	**96.3**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**

Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:41 AM

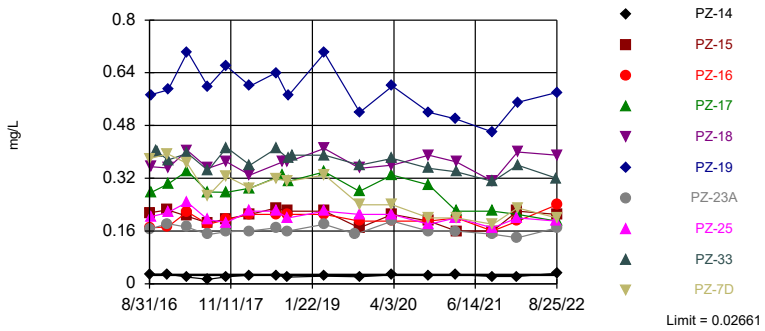
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	**PZ-19**	**6.172**	**n/a**	**8/25/2022**	**84.4**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.172**	**n/a**	**8/25/2022**	**45.6**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.172**	**n/a**	**8/24/2022**	**35.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.172**	**n/a**	**8/24/2022**	**34.7**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.172**	**n/a**	**8/25/2022**	**47.3**	**Yes**	**64**	**1.633**	**0.4252**	**0**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	309.4	n/a	8/25/2022	259	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**309.4**	**n/a**	**8/25/2022**	**319**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	309.4	n/a	8/25/2022	90	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-17**	**309.4**	**n/a**	**8/25/2022**	**321**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-18**	**309.4**	**n/a**	**8/25/2022**	**446**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**309.4**	**n/a**	**8/25/2022**	**528**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**309.4**	**n/a**	**8/25/2022**	**437**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-33	309.4	n/a	8/24/2022	265	No	62	173.2	67.95	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-7D**	**309.4**	**n/a**	**8/25/2022**	**325**	**Yes**	**62**	**173.2**	**67.95**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-15, PZ-16, PZ-18, PZ-19, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.313, Std. Dev.=0.3429, n=64, 9.375% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9612, critical = 0.947. Kappa = 2.003 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Boron Analysis Run 11/21/2022 10:39 AM View: Appendix III - Interwell PLs

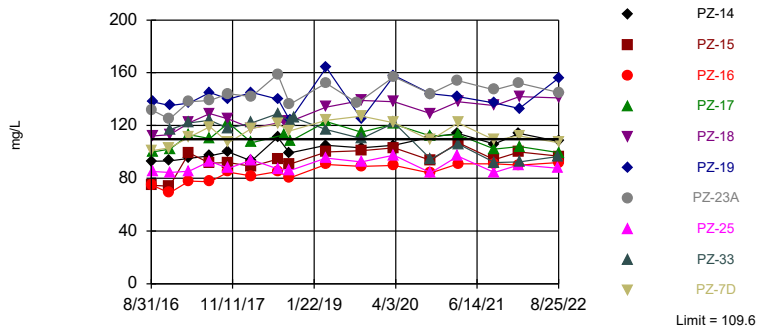
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=56.47, Std. Dev.=26.52, n=63, 1.587% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9649, critical = 0.947. Kappa = 2.004 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Calcium Analysis Run 11/21/2022 10:39 AM View: Appendix III - Interwell PLs

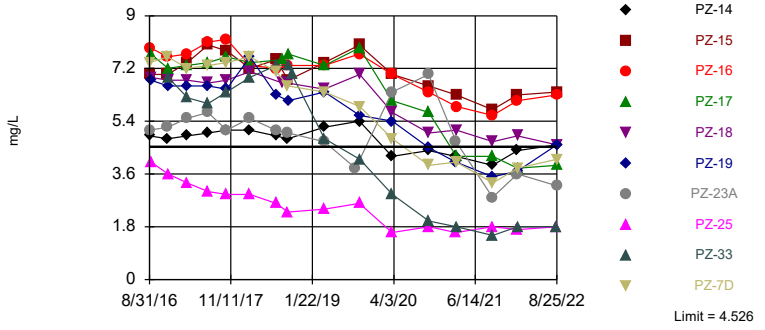
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Exceeds Limit: PZ-14, PZ-15, PZ-16, PZ-18, PZ-19

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=1.088, Std. Dev.=0.2104, n=64. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9613, critical = 0.947. Kappa = 2.003 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Chloride Analysis Run 11/21/2022 10:39 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

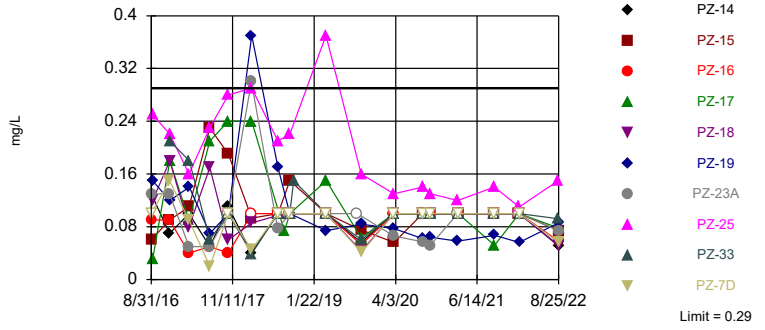
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 68 background values. 47.06% NDs. Annual per-constituent alpha = 0.00819. Individual comparison alpha = 0.0004111 (1 of 2). Comparing 10 points to limit.

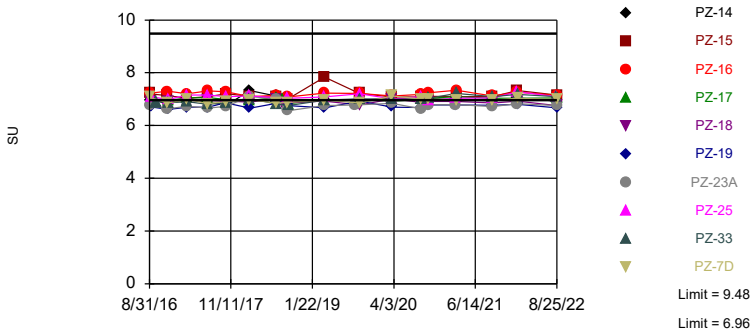
Constituent: Fluoride Analysis Run 11/21/2022 10:39 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limits: PZ-14, 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 64 background values. Annual per-constituent alpha = 0.01848. Individual comparison alpha = 0.0009281 (1 of 2). Comparing 10 points to limit.

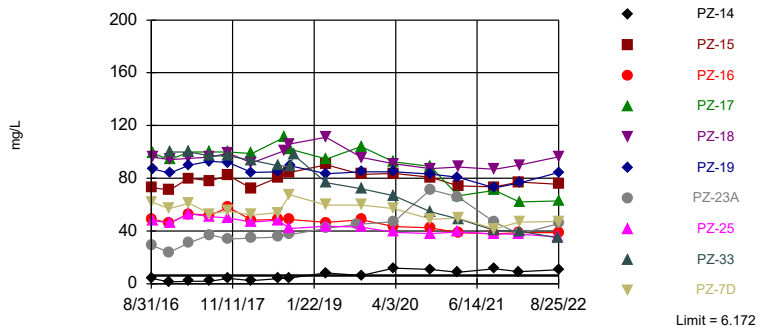
Constituent: pH Analysis Run 11/21/2022 10:39 AM View: Appendix III - Interwell PLs

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-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.633, Std. Dev.=0.4252, n=64. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9479, critical = 0.947. Kappa = 2.003 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

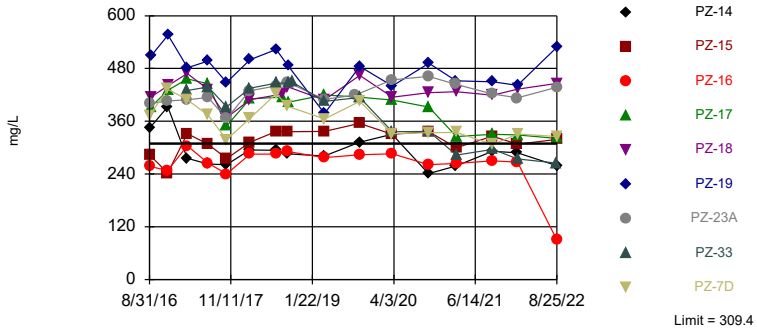
Constituent: Sulfate Analysis Run 11/21/2022 10:40 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-15, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.2, Std. Dev.=67.95, n=62. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9631, critical = 0.947. Kappa = 2.006 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 9 points to limit. Assumes 1 future value.

Constituent: TDS Analysis Run 11/21/2022 10:40 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/21/2022 10:41 AM 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	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.379	0.215				
9/6/2016						0.17			
9/7/2016							0.276	0.355	0.573
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							0.303	0.351	0.588
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.342	0.405	
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		0.278	0.35	0.598
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158		0.197	0.195	0.277	0.37	
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	0.29	0.33	0.6
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							0.31		0.57
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		0.34		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				0.24				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		0.3	0.39	0.52
3/3/2021	0.01 (J)	0.028 (J)	0.16						0.5
3/4/2021				0.2	0.16	0.2	0.22	0.37	
3/8/2021									
9/14/2021	<0.04								
9/15/2021		0.022 (J)	0.15		0.16	0.16			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/21/2022 10:41 AM 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
9/16/2021				0.18			0.22	0.31	0.46
1/25/2022	0.01 (J)								
1/26/2022		0.022 (J)	0.14		0.22	0.19			
1/27/2022				0.23			0.21	0.4	0.55
8/24/2022	0.011 (J)								
8/25/2022		0.032 (J)	0.17 (J)	0.2	0.21	0.24	0.19 (J)	0.39	0.58

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/21/2022 10:41 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (bg)	PZ-2D (bg)
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			0.0174 (J)	0.0156 (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			0.0116 (J)	0.0142 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.046 (J)	0.011 (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		0.011 (J)	0.016 (J)	
3/26/2020		0.38			
10/6/2020			0.011 (J)	0.015 (J)	0.018 (J)
10/7/2020	0.18	0.35			
3/3/2021	0.2		0.0087 (J)	0.022 (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 11/21/2022 10:41 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (bg)	PZ-2D (bg)
9/16/2021		0.31			
1/25/2022					0.013 (J)
1/26/2022	0.2		<0.04	0.01 (J)	
1/27/2022		0.36			
8/24/2022	0.19	0.32	<0.04	0.022 (J)	0.012 (J)
8/25/2022					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 10:41 AM 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

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 10:41 AM 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
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

Constituent: Calcium (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
1/26/2022	90.2	69.2	102		
1/27/2022				92.5	
8/24/2022	87.6	67.1	95.2	96.5	27.3
8/25/2022					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
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							6.8	6.9	7.7
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							6.6	6.8	7.2
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.2	7.4	7.7		6.8	7.3
3/23/2017							6.6		
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				7.3	8		6.6	6.7	7.4
10/17/2017	3.3								
10/18/2017		5.1	5.1		7.8	8.2		6.8	7.6
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	7.6	7.1	7.4
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							6.1		7.7
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		6.4		7.3
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			5.6	7	
3/24/2020	2.8								
3/25/2020		4.2	6.4						6.1
3/26/2020				4.8	7	7	5.4	5.7	
10/6/2020	3	4.4	7			6.4			
10/7/2020				3.9	6.6		4.5	5	5.7
3/3/2021	2.8	4.2	4.7				4		
3/4/2021				4	6.3	5.9		5.1	4.2
3/8/2021									
9/14/2021	2.9								
9/15/2021		3.9	2.8		5.8	5.6			
9/16/2021				3.3			3.5	4.7	4.2
1/25/2022	2.9								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
1/26/2022		4.4	3.6		6.3	6.1			
1/27/2022				3.8			3.7	4.9	3.8
8/24/2022	2.6								
8/25/2022		4.6	3.2	4.1	6.4	6.3	4.6	4.6	3.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	4				
10/18/2016		4.5	3.5		
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	4.7	3.1		
7/12/2017				6	
10/17/2017		4.6	3		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		4.4	3		
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		4	2.8		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	3	2.2		
3/26/2020				2.9	
10/6/2020		3.4	2.3		2.3
10/7/2020	1.8			2	
3/3/2021	1.6	3.1	2.2		
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 11/21/2022 10:41 AM 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)
1/26/2022	1.7	3.2	2.4		
1/27/2022				1.8	
8/24/2022	1.8	3	2.7	1.8	2.1
8/25/2022					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 10:41 AM 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	0.06 (J)								
8/31/2016		0.13 (J)	0.13 (J)						
9/1/2016				0.06 (J)	<0.1				
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)	0.09 (J)	0.15 (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				0.11 (J)	0.09 (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)	0.02 (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				0.093 (J)	0.045 (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	0.15 (J)	<0.1	<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				0.056 (J)	<0.1	<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

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 10:41 AM 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
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)	0.074 (J)	0.056 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
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

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
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	
8/24/2022	0.15	0.058 (J)	0.069 (J)	0.092 (J)	0.088 (J)
8/25/2022					

Prediction Limit

Constituent: pH (SU) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
8/30/2016	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.07	7.21				
9/6/2016						7.23			
9/7/2016							6.71	6.92	7.02
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	6.85	7.13	7.3			
12/8/2016							6.61	6.9	6.95
3/21/2017	7.54	7.04	6.73						
3/22/2017				6.99	7.04	7.2		7	7.05
3/23/2017							6.69		
7/11/2017	7.43	6.88	6.66			7.31			
7/12/2017				6.83	7.09		6.69	6.95	7.06
10/17/2017	7.7								
10/18/2017		6.77	6.73		7.2	7.28	6.88		6.99
10/19/2017				6.91			6.85		
2/20/2018	7.57	7.32 (D)	7.11						
2/21/2018				6.97	7.11	7.1	6.66	6.89	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	6.84	7.01	7.06
8/15/2018								6.87	
8/16/2018									7.01
9/12/2018	7.41	6.87							
9/13/2018			6.56	6.88	7.01	7.08		6.86	
9/14/2018							6.76		6.83
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23		6.92	
3/28/2019				6.96	7.84		6.67		6.97
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			6.93	6.78	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.12	7.08	7.12	6.7	7.01	
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.01	7.08	7.18	6.68		6.98
8/27/2020								6.88	
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				6.98	7.11		6.78	6.91	7.04
3/3/2021	7.56	6.99	6.79				6.78		
3/4/2021				6.95	7.09	7.34		6.91	7.09
3/8/2021									
9/14/2021	7.45								
9/15/2021		6.94	6.72		7.09	7.12			
9/16/2021				6.96			6.77	6.85	7.03
1/25/2022	7.51								

Prediction Limit

Constituent: pH (SU) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
1/26/2022		7.05	6.83		7.33	7.26			
1/27/2022				7.03			6.8	6.92	7.03
8/24/2022	7.49								
8/25/2022		6.93	6.76	6.98	7.15	7.14	6.67	6.76	7.05

Prediction Limit

Constituent: pH (SU) Analysis Run 11/21/2022 10:41 AM 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)
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

Constituent: pH (SU) Analysis Run 11/21/2022 10:41 AM 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)
1/26/2022	7.28		7.44	7.1	
1/27/2022		7.18			
8/24/2022	7.1	7.1	7.34	7.04	8.01
8/25/2022					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							87	96	99
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							84	94	94
3/21/2017	2.5	2	31						
3/22/2017				61	80	53		95	100
3/23/2017							90		
7/11/2017	2.6	2	37			52			
7/12/2017				53	78		93	96	100
10/17/2017	2.5								
10/18/2017		4.2	34		82	58		99	100
10/19/2017				55			92		
2/20/2018	2.3	2.4	34.7						
2/21/2018				52.1	72.2	48.2	84.5	91.8	98.8
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							89.5		102
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		83.5		94.7
9/10/2019			45.1						
10/1/2019	2.8								
10/2/2019		6.2			83	48.5			104
10/3/2019				59.6			84.9	95.8	
3/24/2020	3								
3/25/2020		11.9	47						92.4
3/26/2020				57.1	83.6	43.5	84.9	91	
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				48.9	80.7		83.3	87.3	89.1
3/3/2021	2.2	8.8	66				80.8		
3/4/2021				49.7	74.1	38.9		88.6	66.8
3/8/2021									
9/14/2021	2.6								
9/15/2021		11.4	46.8		73.4	37.8			
9/16/2021				41.8			72.7	86.9	70.9
1/25/2022	2.4								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 10:41 AM 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-19	PZ-18	PZ-17
1/26/2022		9.1	37.8		77.2	38.9			
1/27/2022				46.7			76.3	89.9 (M1)	62.1
8/24/2022	2.2								
8/25/2022		10.7	45.6	47.3	75.5	38.7	84.4	96.3	62.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	48				
10/18/2016		2.2	2.3		
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	4.8	1.8		
7/12/2017				97	
10/17/2017		6.4	1.9		
10/18/2017	50				
10/19/2017				97	
2/20/2018		5.2	2.1		
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		3.6	2		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	1.5	1.9		
3/26/2020				66.6	
10/6/2020		0.98 (J)	1.9		3.1
10/7/2020	38.1			54.6	
3/3/2021	39.2	0.6 (J)	2		
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

Constituent: Sulfate (mg/L) Analysis Run 11/21/2022 10:41 AM 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)
1/26/2022	37.5	0.69 (J)	1.9		
1/27/2022				40	
8/24/2022	35.7	0.56 (J)	1.7	34.7	2
8/25/2022					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/21/2022 10:41 AM 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-18	PZ-17	PZ-19
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				284	373				
9/6/2016						257			
9/7/2016							415	392	508
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	242	433	248			
12/8/2016							441	431	556
3/21/2017	128	276	409						
3/22/2017				332	409	304	469	456	
3/23/2017									482
7/11/2017	138	263	414			265			
7/12/2017				308	374		432	445	497
10/17/2017	101								
10/18/2017		261	366	275		240	368	349	
10/19/2017					318				448
2/20/2018	138	295	429						
2/21/2018				312	367	285	409	411	500
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				337	423	285			523
8/15/2018							422		
8/16/2018								415	
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	336	394	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				337	365			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				330	332	286	415		440
10/6/2020	153	241	462			261			
10/7/2020				336	334		425	392	492
3/3/2021	134	258	444						452
3/4/2021				300	335	264	427	325	
3/8/2021									
9/14/2021	150								
9/15/2021		292	422	326		270			
9/16/2021					307		419	330	450
1/25/2022	148								
1/26/2022		288	413	308		267			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/21/2022 10:41 AM 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-18	PZ-17	PZ-19
1/27/2022					331		433	329	442
8/24/2022	139								
8/25/2022		259	437	319	325	90	446	321	528

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/21/2022 10:41 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016				
8/31/2016				
9/1/2016				
9/6/2016				
9/7/2016				
10/18/2016	264	152		
12/6/2016	299			
12/7/2016		214		
12/8/2016			503 (o)	
3/21/2017	260			
3/22/2017				
3/23/2017		165	430	
7/11/2017	244	162		
7/12/2017			438	
10/17/2017	218	140		
10/18/2017				
10/19/2017			393	
2/20/2018	264	163		
2/21/2018			435	
4/12/2018				69
5/23/2018				62
6/13/2018				93
7/11/2018	273	192		84
7/12/2018			447	
8/15/2018				
8/16/2018				
8/17/2018				115
9/12/2018	252			97
9/13/2018		192		
9/14/2018			447	
10/4/2018			450	103
10/24/2018				110
3/26/2019	253			
3/27/2019		167		87
3/28/2019			405	
9/10/2019				
10/1/2019		187		
10/2/2019	263			95
10/3/2019			414	
3/24/2020				123
3/25/2020	278	178		
3/26/2020			336	
10/6/2020	254	169		81
10/7/2020			337	
3/3/2021	264	166		
3/4/2021			283	
3/8/2021				126
9/14/2021		179		71
9/15/2021	256			
9/16/2021			296	
1/25/2022				68
1/26/2022	262	182		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/21/2022 10:41 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
1/27/2022			274	
8/24/2022	261		265	
8/25/2022				

FIGURE E.

Interwell Prediction Limits - Resample Results (No Significant)

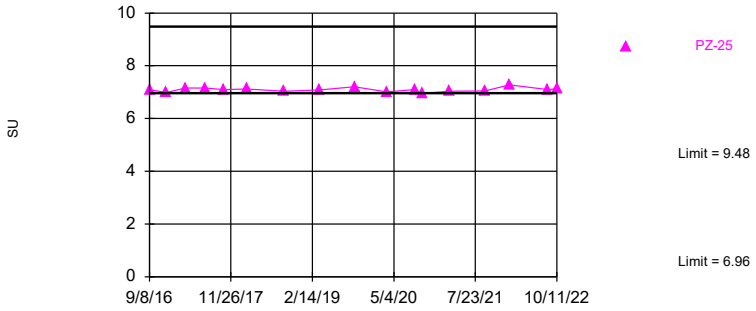
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	PZ-25	9.48	6.96	10/11/2022	7.13	No	66	n/a	n/a	0	n/a	n/a	0.0008751	NP Inter (normality) 1 of 2
TDS (mg/L)	PZ-25	307.8	n/a	10/11/2022	267	No	64	171.6	67.98	0	None	No	0.0007523	Param Inter 1 of 2

Within Limits

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 66 background values. Annual per-constituent alpha = 0.01743. Individual comparison alpha = 0.0008751 (1 of 2). Assumes 9 future values.

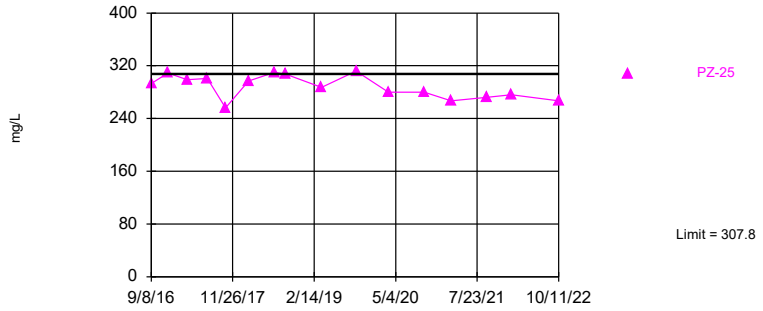
Constituent: pH Analysis Run 11/21/2022 10:43 AM View: Appendix III - Interwell PLs Resample
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=171.6, Std. Dev.=67.98, n=64. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9633, critical = 0.947. Kappa = 2.003 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Assumes 9 future values.

Constituent: TDS Analysis Run 11/21/2022 10:43 AM View: Appendix III - Interwell PLs Resample
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: pH (SU) Analysis Run 11/21/2022 10:43 AM View: Appendix III - Interwell PLs Resample

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016	7.67				
9/8/2016		7.1			
10/17/2016			7.43		
10/18/2016			7.45	7.15	
12/6/2016	7.57			7.04	
12/7/2016			7.29		
12/8/2016		6.98			
3/21/2017	7.54			7.01	
3/22/2017		7.16			
3/23/2017			7.26		
7/11/2017	7.43	7.15	7.31	6.96	
10/17/2017	7.7		7.29	7.31	7.61
10/18/2017		7.09			
2/20/2018	7.57		7.26		
2/21/2018		7.12			
7/11/2018	7.48		7.39	7.26	9.48
7/12/2018				7.01	
9/12/2018	7.41			7.02	9.07
9/13/2018		7.03	7.25		
3/26/2019	7.49			7	
3/27/2019		7.08	7.42		8.76
10/1/2019	7.5		7.43		
10/2/2019		7.2		7.09	8.97
3/24/2020	7.79				8.57
3/25/2020		7.01	7.23	7.15	
8/25/2020	7.49		7.53	7.14	
8/26/2020		7.09			7.97
10/6/2020	7.35		7.27	7.01	8.72
10/7/2020		6.95			
3/3/2021	7.56	7.04	7.41	7.14	
3/8/2021					7.77
9/14/2021	7.45		7.31		8.96
9/15/2021		7.05		6.99	
1/25/2022	7.51				8.4
1/26/2022		7.28	7.44	7.1	
8/24/2022	7.49	7.1	7.34	7.04	8.01
10/11/2022		7.13	7.37		7.94

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/21/2022 10:43 AM View: Appendix III - Interwell PLs Resample

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-2D (bg)
8/30/2016	136				
9/8/2016		293			
10/18/2016			264	152	
12/6/2016	207		299		
12/7/2016				214	
12/8/2016		309			
3/21/2017	128		260		
3/22/2017		299			
3/23/2017				165	
7/11/2017	138	301	244	162	
10/17/2017	101		218	140	
10/18/2017		256			
2/20/2018	138		264	163	
2/21/2018		297			
4/12/2018					69
5/23/2018					62
6/13/2018					93
7/11/2018	153		273	192	84
7/12/2018		310			
8/17/2018					115
9/12/2018	146		252		97
9/13/2018		307		192	
10/4/2018					103
10/24/2018					110
3/26/2019	334		253		
3/27/2019		287		167	87
10/1/2019	146			187	
10/2/2019		312	263		95
3/24/2020	228				123
3/25/2020		280	278	178	
10/6/2020	153		254	169	81
10/7/2020		280			
3/3/2021	134	267	264	166	
3/8/2021					126
9/14/2021	150			179	71
9/15/2021		272	256		
1/25/2022	148				68
1/26/2022		276	262	182	
8/24/2022	139		261		
10/11/2022		267		173	75

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 4:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-33**	**-0.01244**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.0341**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.478**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**2.442**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.939**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.347**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3988**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-19**	**-0.5273**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.3431**	**-86**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.677**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.677**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-19**	**-1.705**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-23A**	**4.222**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.516**	**-92**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.6424**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.9633**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-12.82**	**-108**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.016**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-17**	**-16.07**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-12.16**	**-60**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

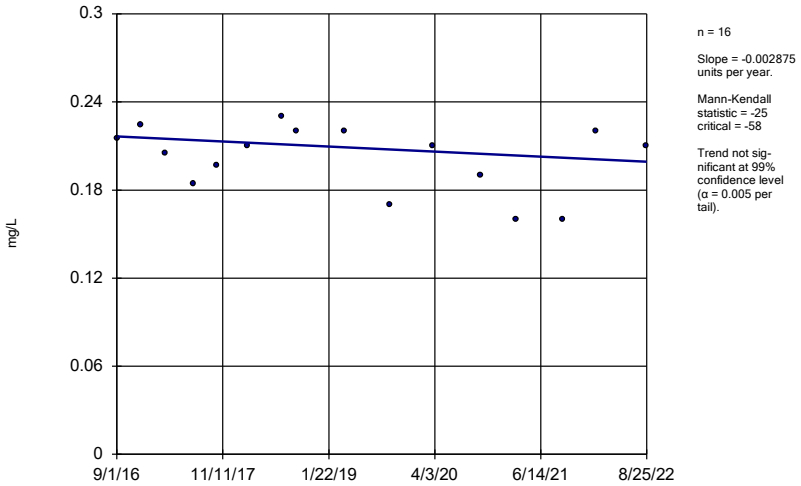
Trend Tests - Prediction Limit Exceedances - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 4:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002875	-25	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	10	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003907	18	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.02163	-42	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0003842	12	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005259	-41	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001017	-43	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0	-1	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-1	-58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-33**	**-0.01244**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.0341**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.478**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.9209	11	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.612	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	2.968	52	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	2.155	30	58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**2.442**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.939**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-14	-0.1076	-35	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2275	-52	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-16**	**-0.347**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-18**	**-0.3988**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-19**	**-0.5273**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.08315	-47	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.05458	-36	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.3431**	**-86**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1674	-58	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-14	0.009753	13	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01313	-37	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.007961	14	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01661	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	24	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2384	-28	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.003316	-10	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.004191	11	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.677**	**83**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.4002	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.677**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-17	-5.533	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-1.22	-27	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.705**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	0	6	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**4.222**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.516**	**-92**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.6424**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.9633**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.02024	-16	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-12.82**	**-108**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.016**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-15	4.115	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-17**	**-16.07**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-18	2.236	13	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-10.13	-32	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.035	21	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	6.692	52	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	1.433	4	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.04	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-7D**	**-12.16**	**-60**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sen's Slope Estimator

PZ-15



n = 16

Slope = -0.002875 units per year.

Mann-Kendall statistic = -25 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

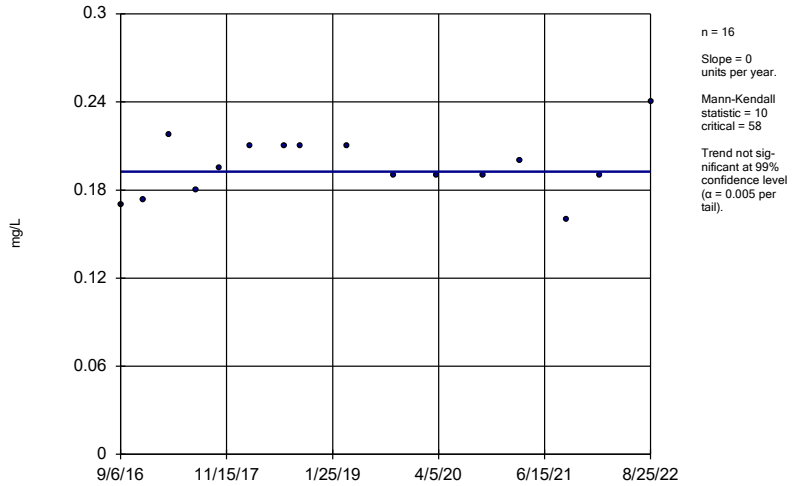
Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-16



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 10 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

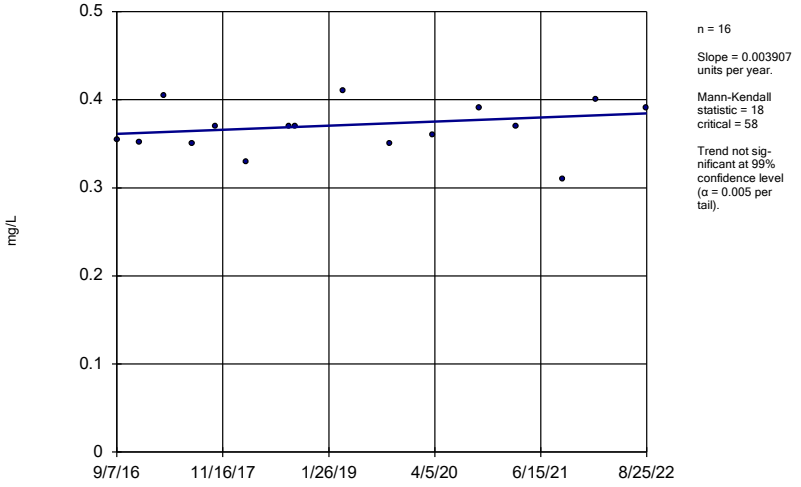
Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 16

Slope = 0.003907 units per year.

Mann-Kendall statistic = 18 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

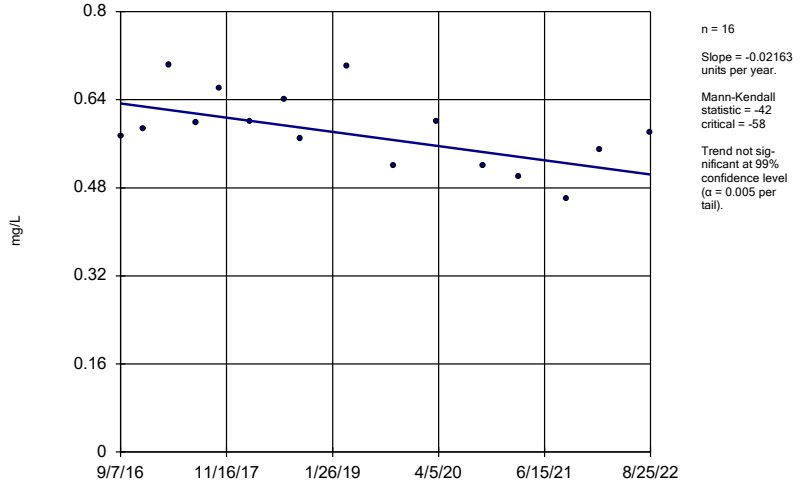
Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 16

Slope = -0.02163 units per year.

Mann-Kendall statistic = -42 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

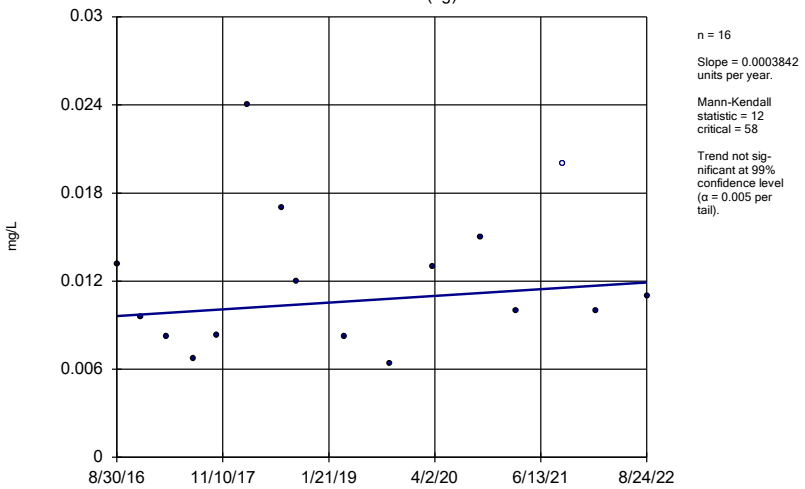
Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-1D (bg)



n = 16

Slope = 0.0003842 units per year.

Mann-Kendall statistic = 12
critical = 58

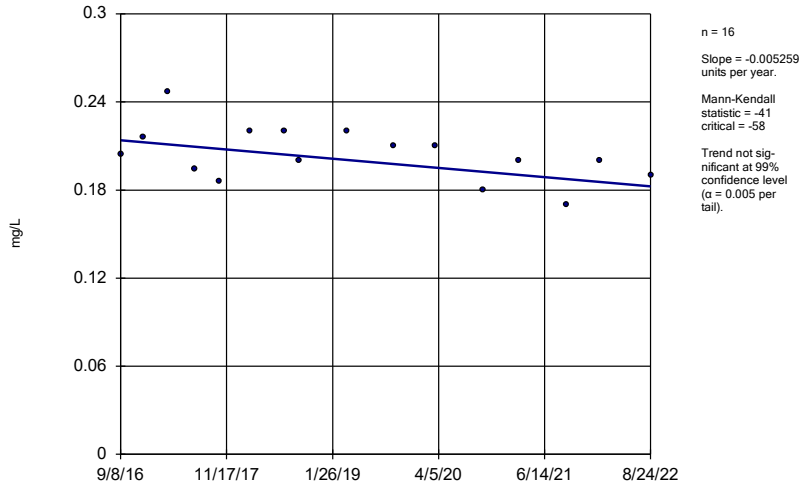
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-25



n = 16

Slope = -0.005259 units per year.

Mann-Kendall statistic = -41
critical = -58

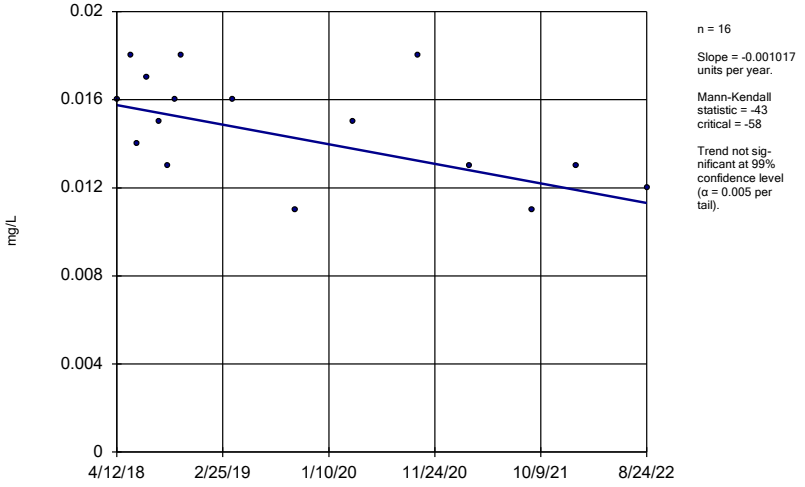
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 16

Slope = -0.001017 units per year.

Mann-Kendall statistic = -43
critical = -58

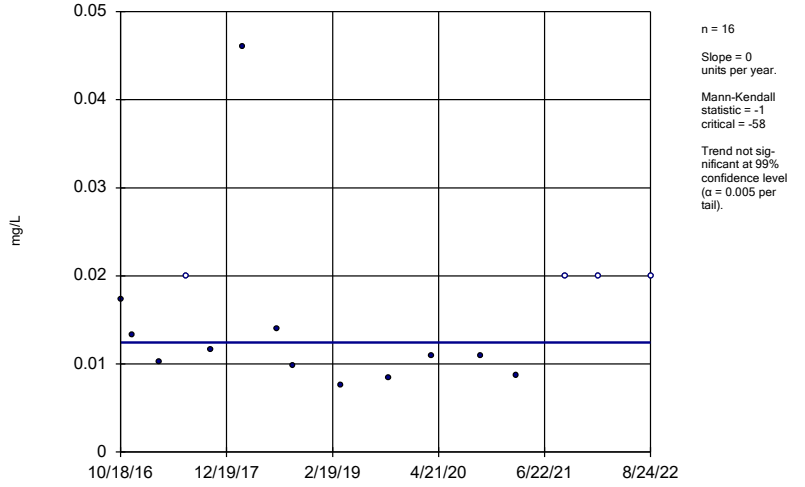
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-31 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -58

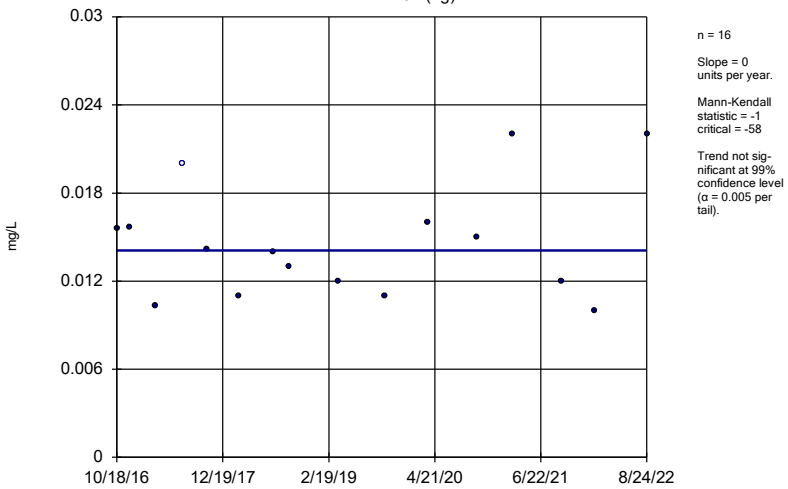
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -58

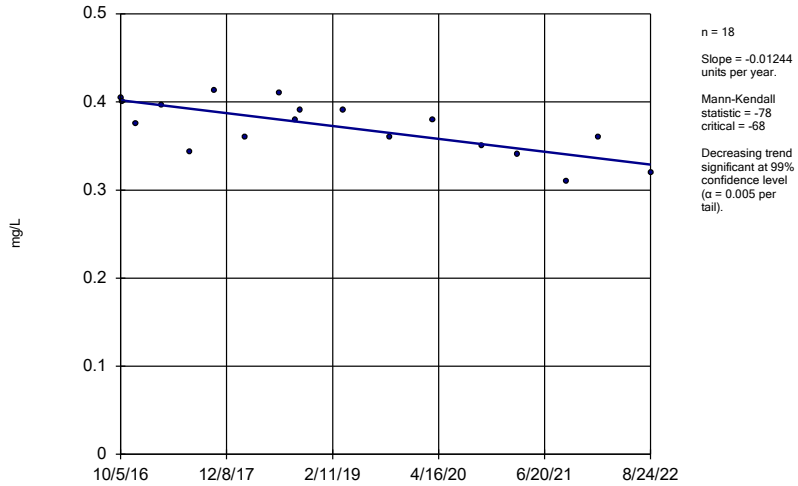
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-33



n = 18

Slope = -0.01244 units per year.

Mann-Kendall statistic = -78
critical = -68

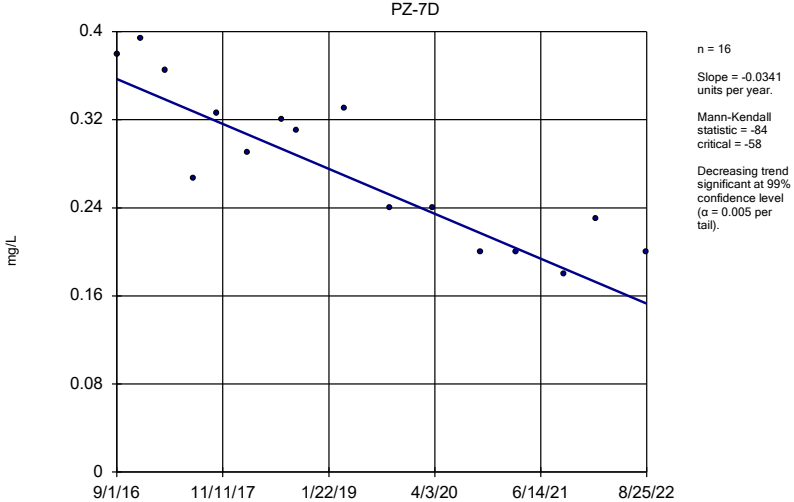
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-7D



n = 16

Slope = -0.0341 units per year.

Mann-Kendall statistic = -84
critical = -58

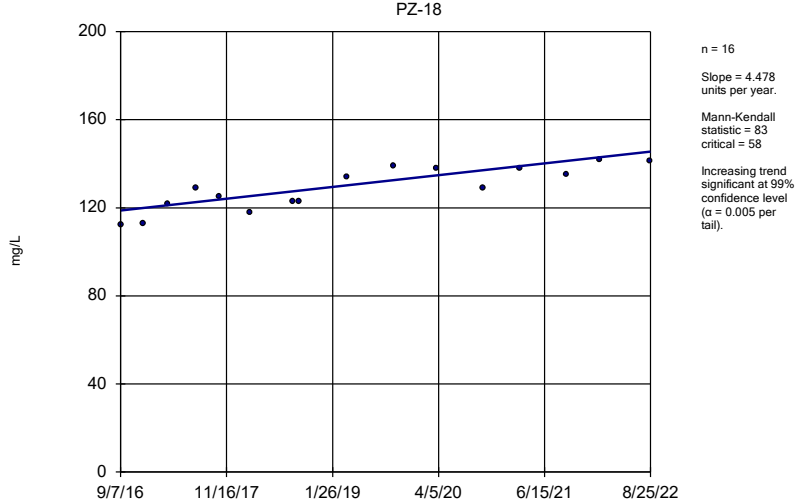
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 16

Slope = 4.478 units per year.

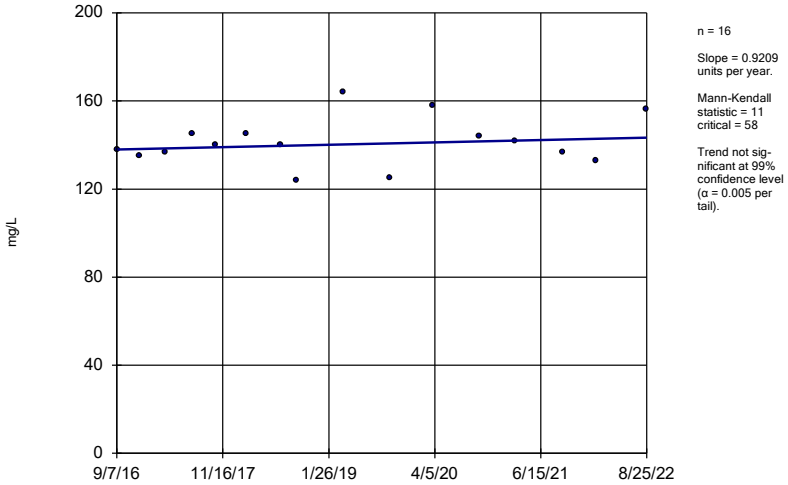
Mann-Kendall statistic = 83
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-19



n = 16

Slope = 0.9209 units per year.

Mann-Kendall statistic = 11 critical = 58

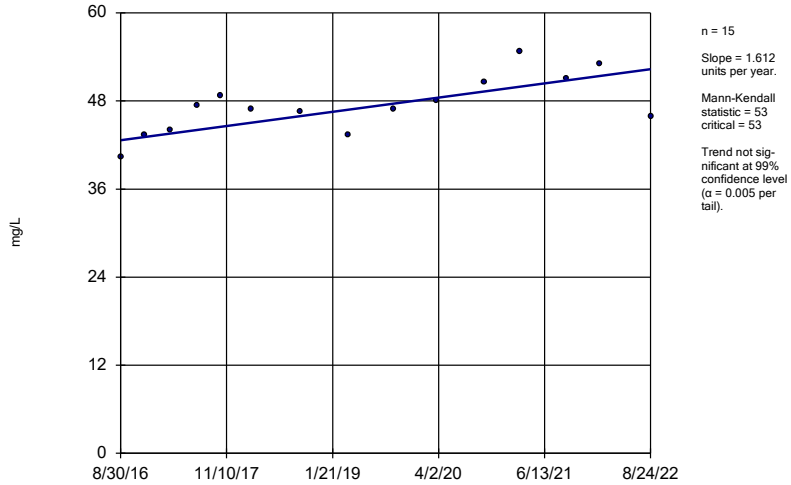
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-1D (bg)



n = 15

Slope = 1.612 units per year.

Mann-Kendall statistic = 53 critical = 53

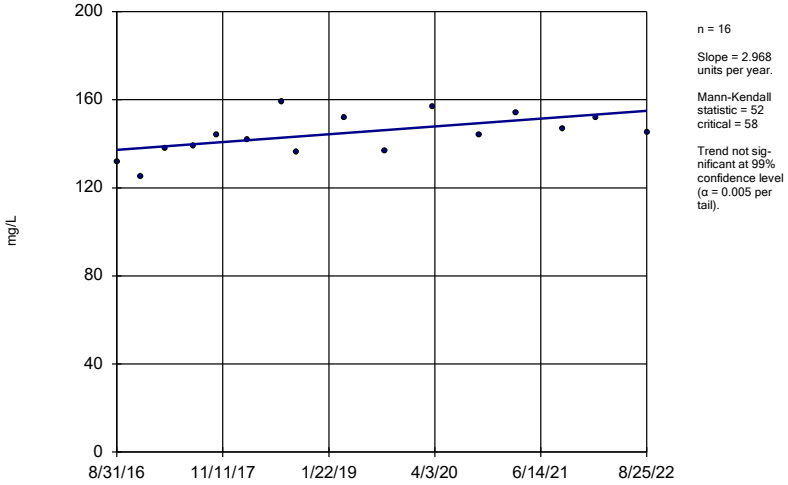
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-23A



n = 16

Slope = 2.968 units per year.

Mann-Kendall statistic = 52 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

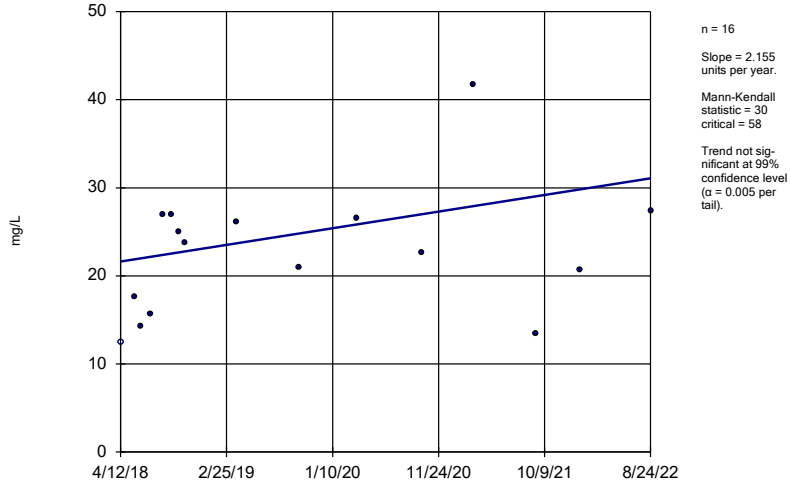
Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-2D (bg)



n = 16

Slope = 2.155 units per year.

Mann-Kendall statistic = 30 critical = 58

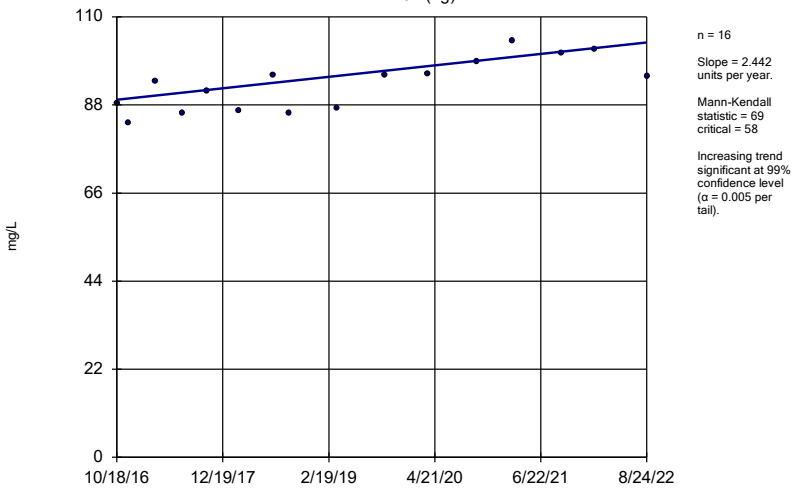
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 16

Slope = 2.442 units per year.

Mann-Kendall statistic = 69 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

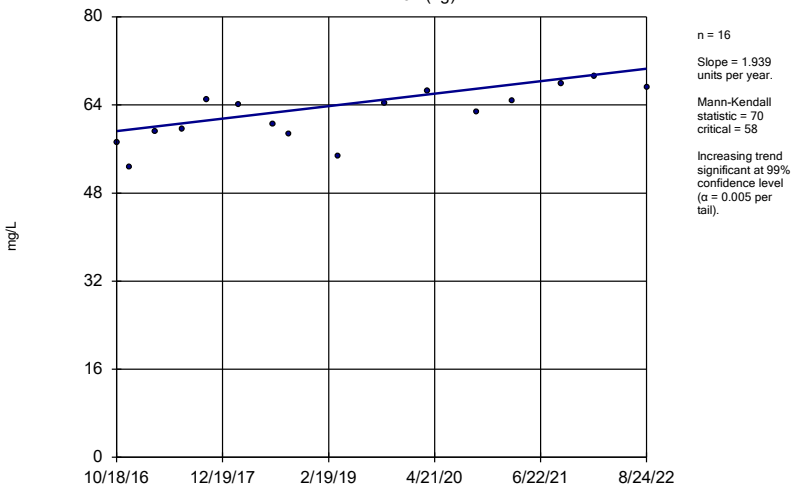
Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = 1.939 units per year.

Mann-Kendall statistic = 70 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

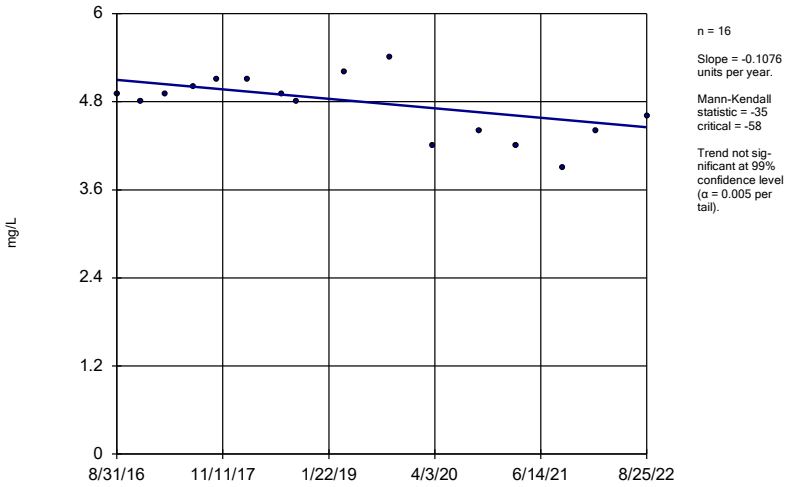
Constituent: Calcium Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-14



n = 16

Slope = -0.1076 units per year.

Mann-Kendall statistic = -35 critical = -58

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

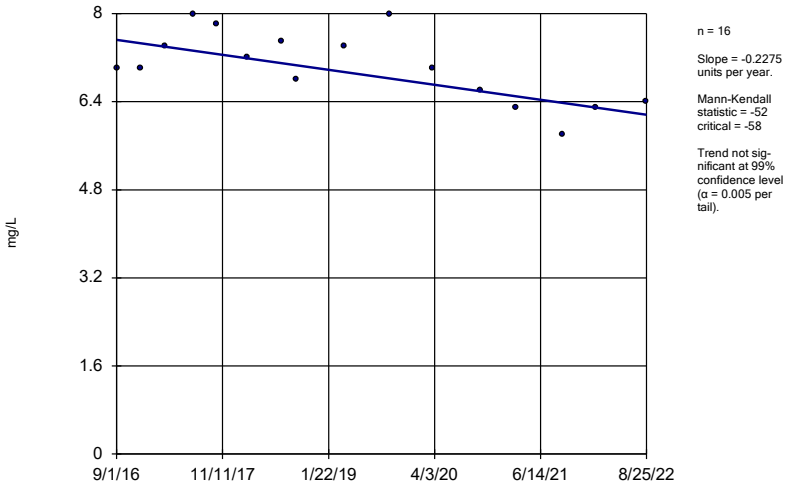
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-15



n = 16

Slope = -0.2275 units per year.

Mann-Kendall statistic = -52 critical = -58

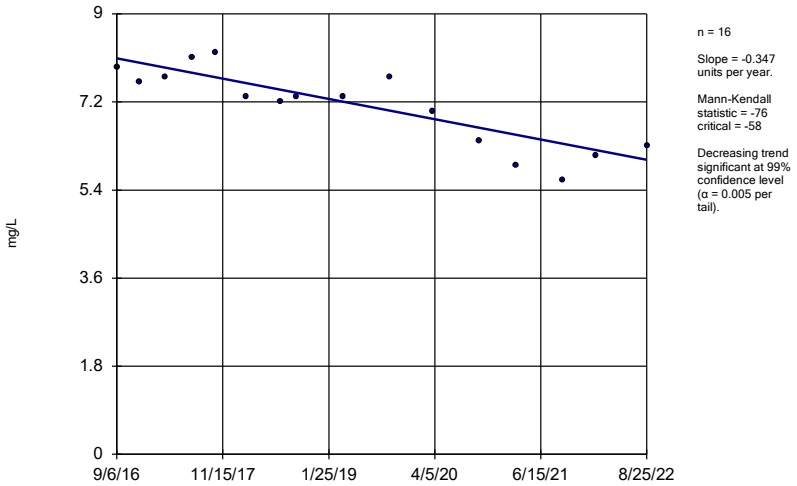
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-16



n = 16

Slope = -0.347 units per year.

Mann-Kendall statistic = -76 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

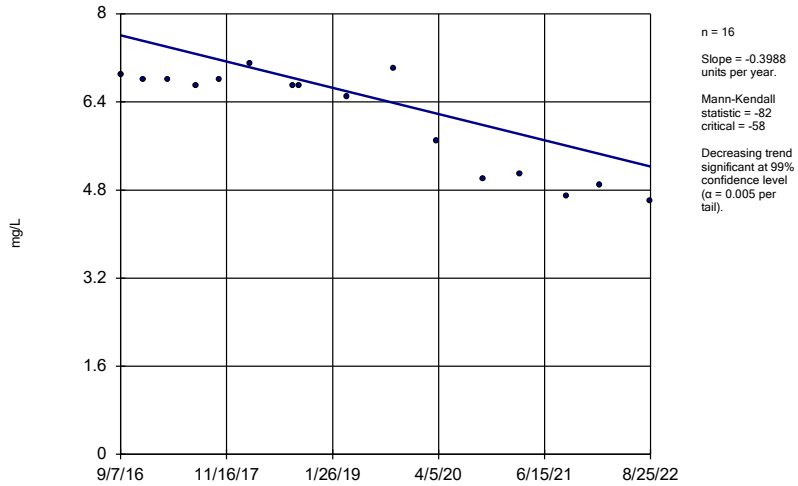
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 16

Slope = -0.3988 units per year.

Mann-Kendall statistic = -82 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

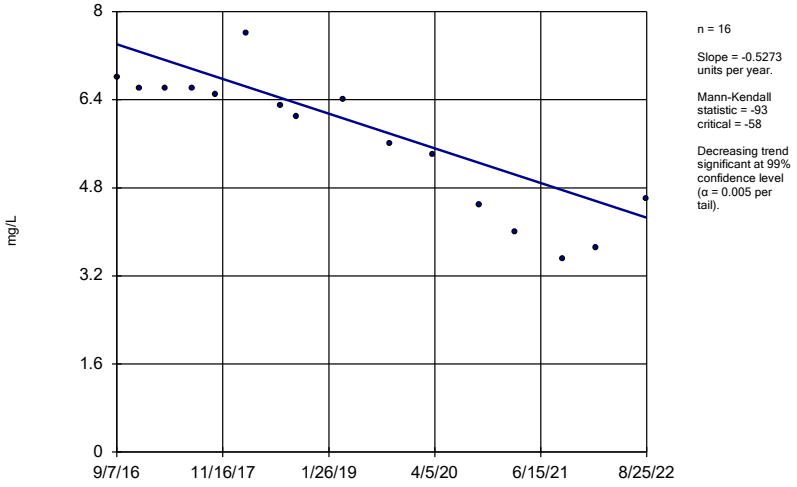
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 16

Slope = -0.5273 units per year.

Mann-Kendall statistic = -93 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

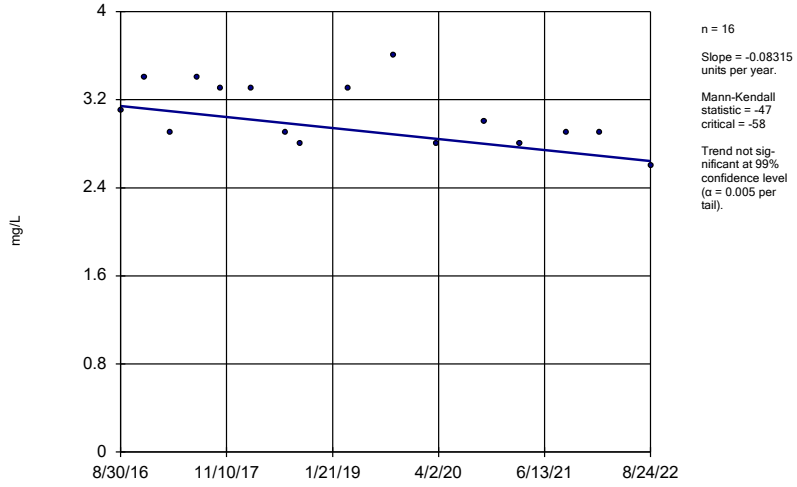
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 16

Slope = -0.08315 units per year.

Mann-Kendall statistic = -47 critical = -58

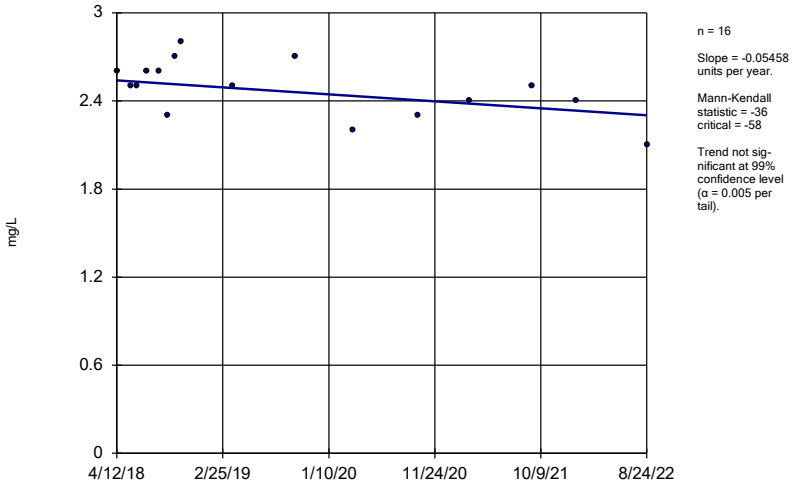
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-2D (bg)



n = 16

Slope = -0.05458 units per year.

Mann-Kendall statistic = -36 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

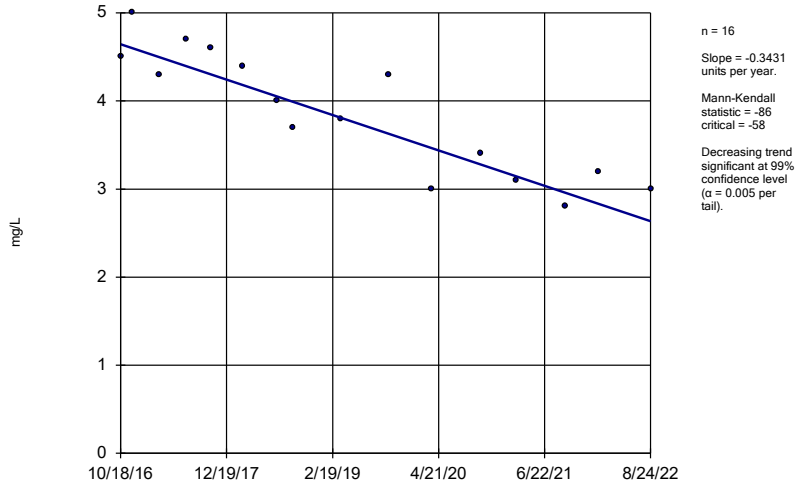
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-31 (bg)



n = 16

Slope = -0.3431 units per year.

Mann-Kendall statistic = -86 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

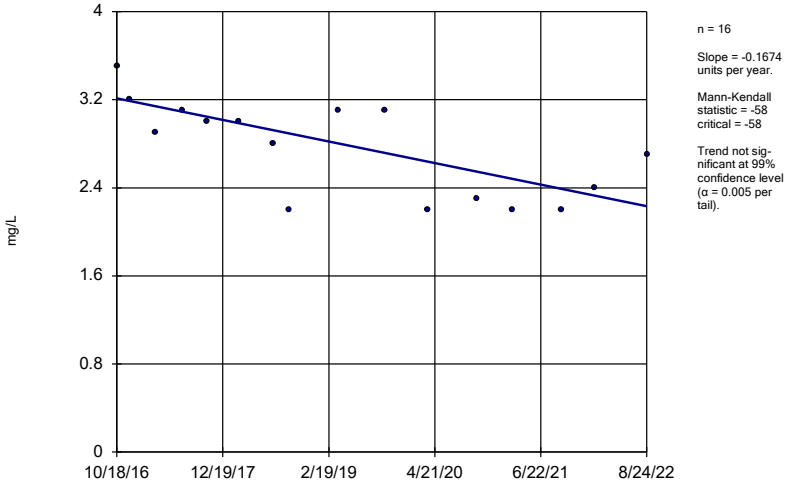
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = -0.1674 units per year.

Mann-Kendall statistic = -58 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

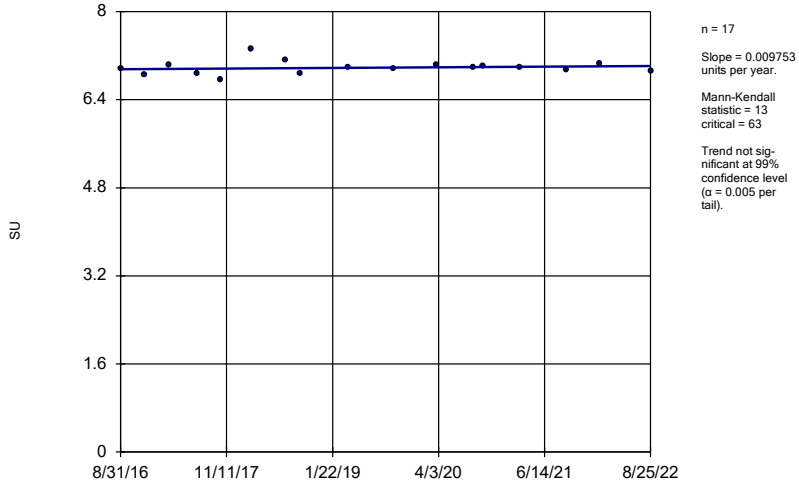
Constituent: Chloride Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-14



n = 17

Slope = 0.009753 units per year.

Mann-Kendall statistic = 13 critical = 63

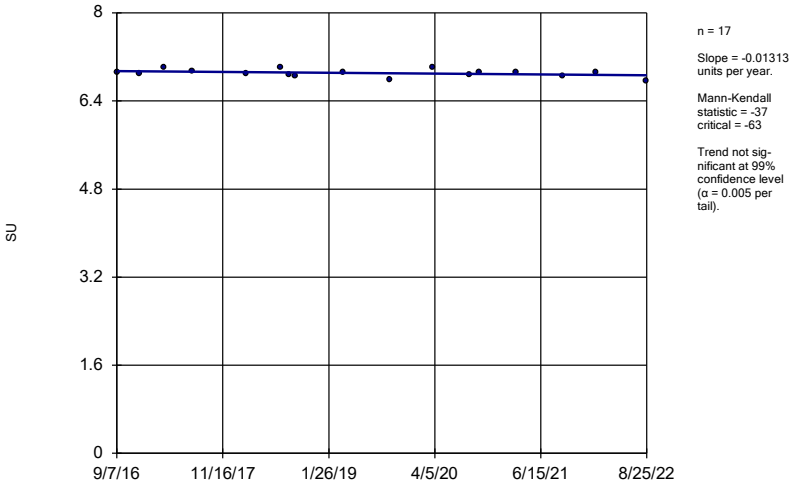
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-18



n = 17

Slope = -0.01313 units per year.

Mann-Kendall statistic = -37
critical = -63

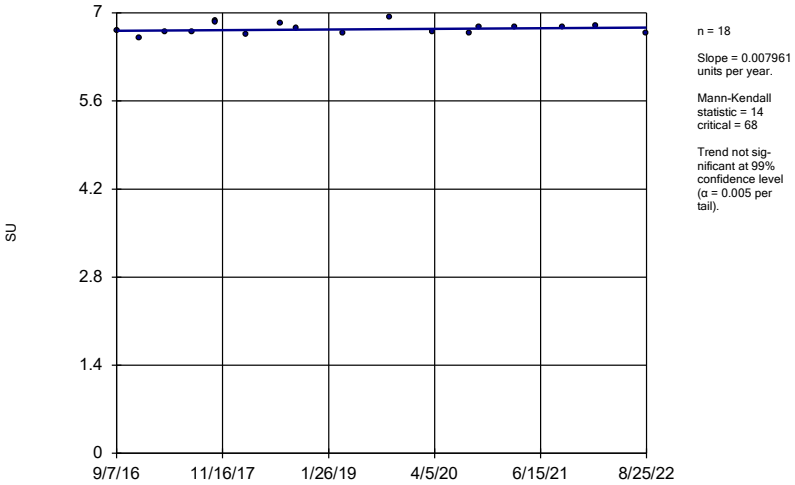
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 18

Slope = 0.007961 units per year.

Mann-Kendall statistic = 14
critical = 68

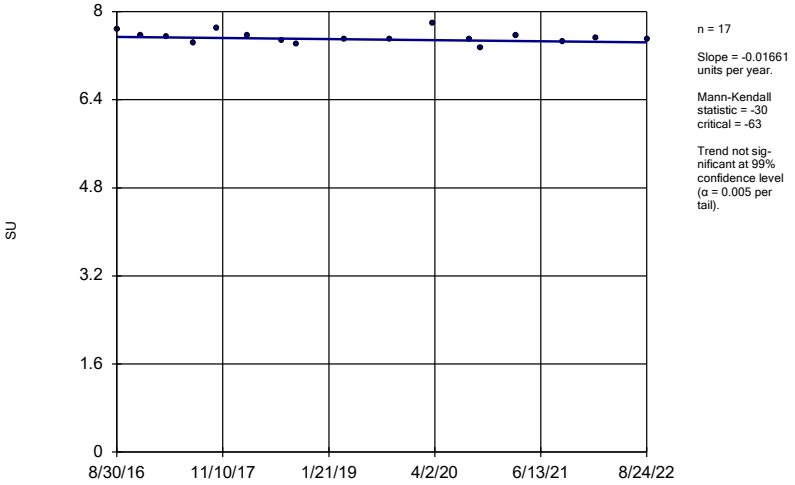
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 17

Slope = -0.01661 units per year.

Mann-Kendall statistic = -30
critical = -63

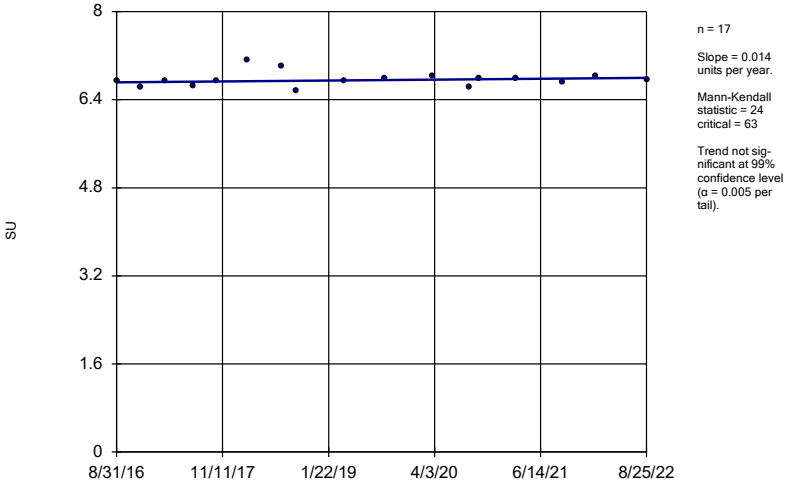
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



n = 17

Slope = 0.014 units per year.

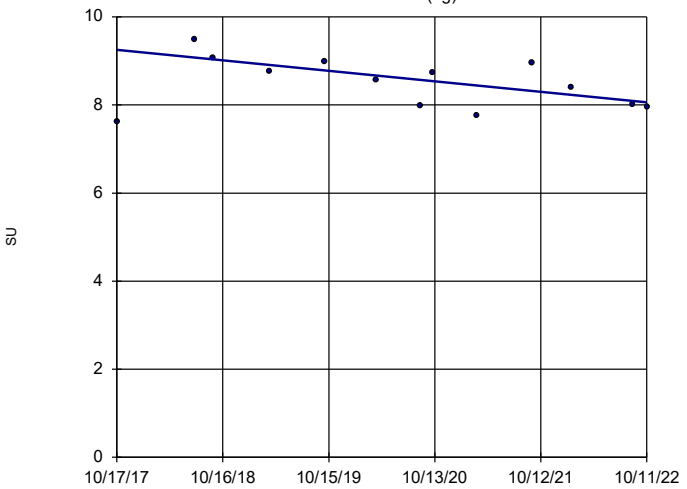
Mann-Kendall statistic = 24
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-2D (bg)



n = 13

Slope = -0.2384 units per year.

Mann-Kendall statistic = -28
critical = -43

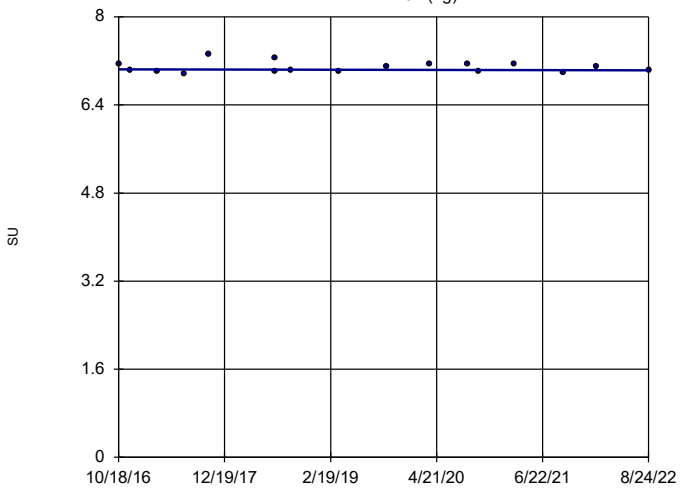
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-31 (bg)



n = 17

Slope = -0.003316 units per year.

Mann-Kendall statistic = -10
critical = -63

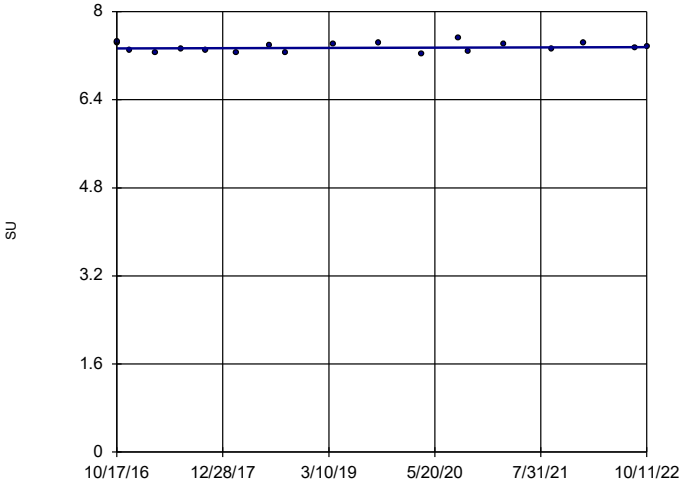
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = 0.004191 units per year.

Mann-Kendall statistic = 11
critical = 74

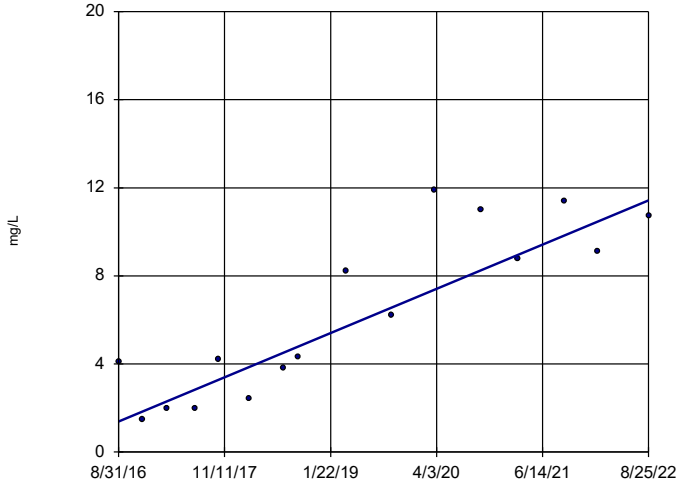
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-14



n = 16

Slope = 1.677 units per year.

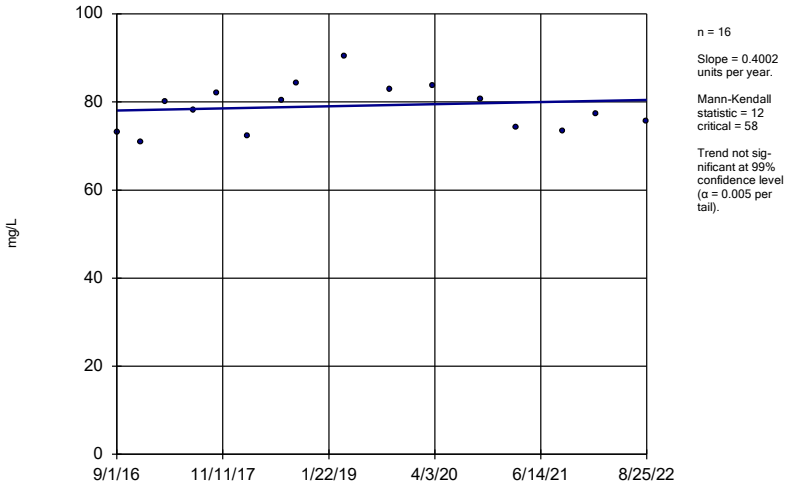
Mann-Kendall statistic = 83
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:45 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-15



n = 16

Slope = 0.4002 units per year.

Mann-Kendall statistic = 12 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

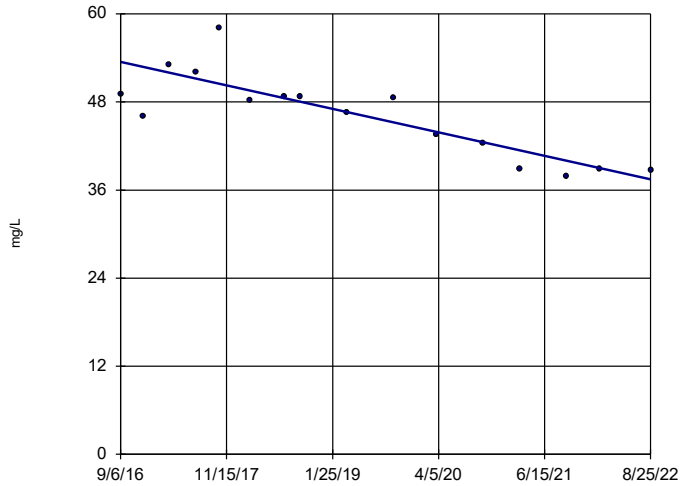
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-16



n = 16

Slope = -2.677 units per year.

Mann-Kendall statistic = -81 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

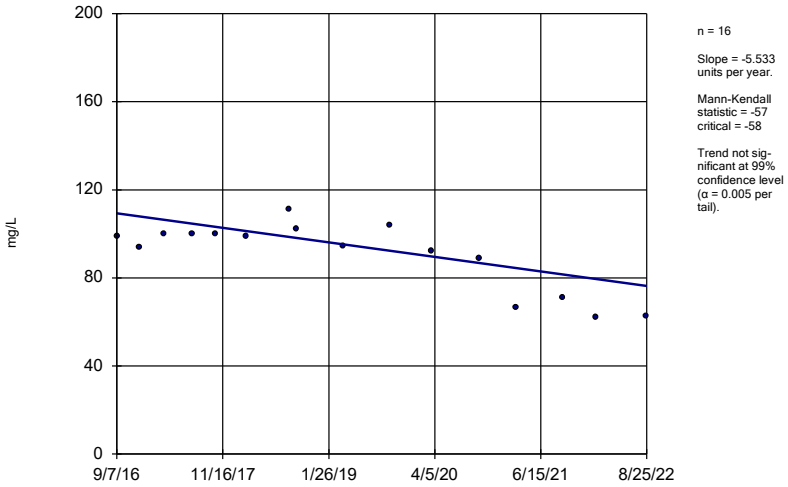
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-17



n = 16

Slope = -5.533 units per year.

Mann-Kendall statistic = -57 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

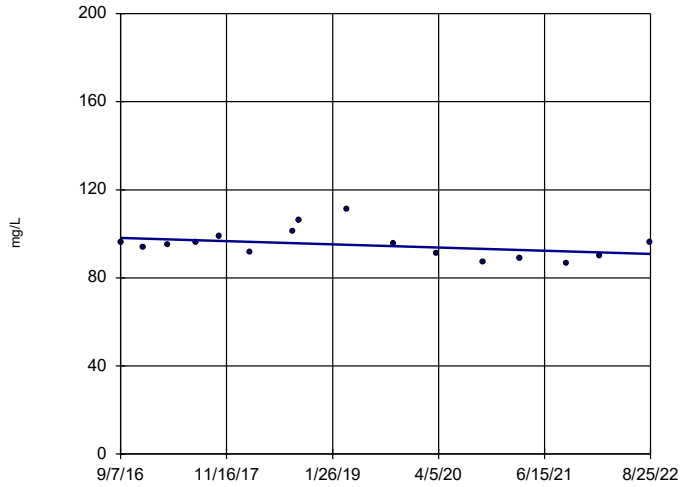
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 16

Slope = -1.22 units per year.

Mann-Kendall statistic = -27 critical = -58

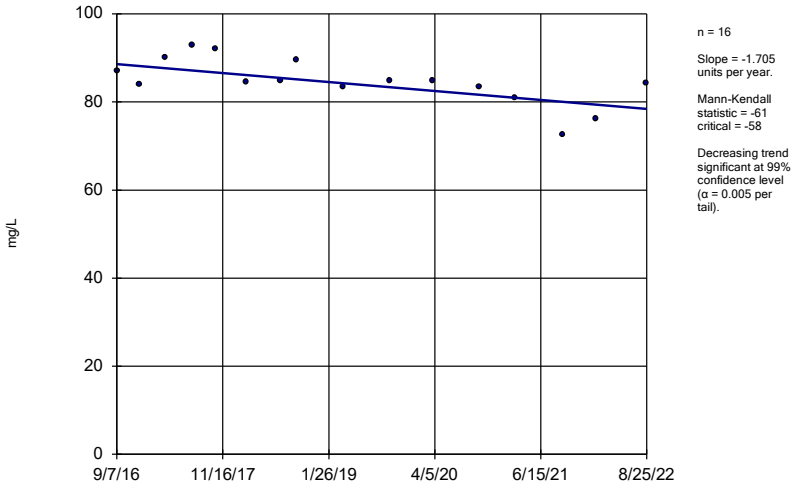
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-19



n = 16

Slope = -1.705 units per year.

Mann-Kendall statistic = -61
critical = -58

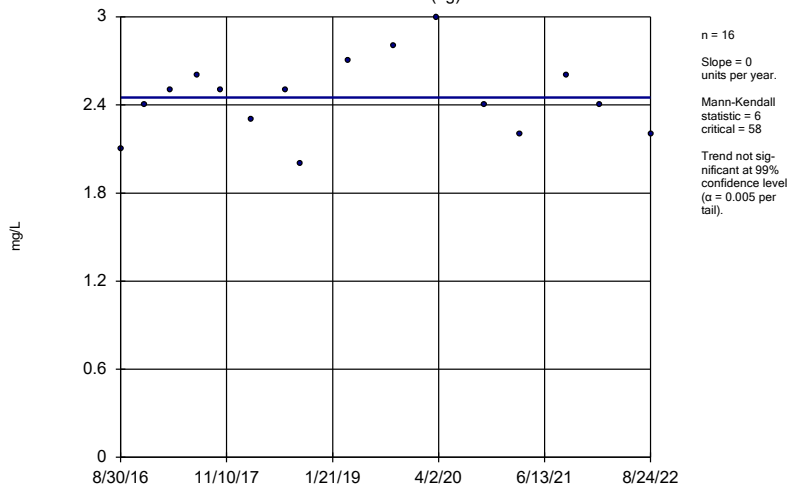
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 58

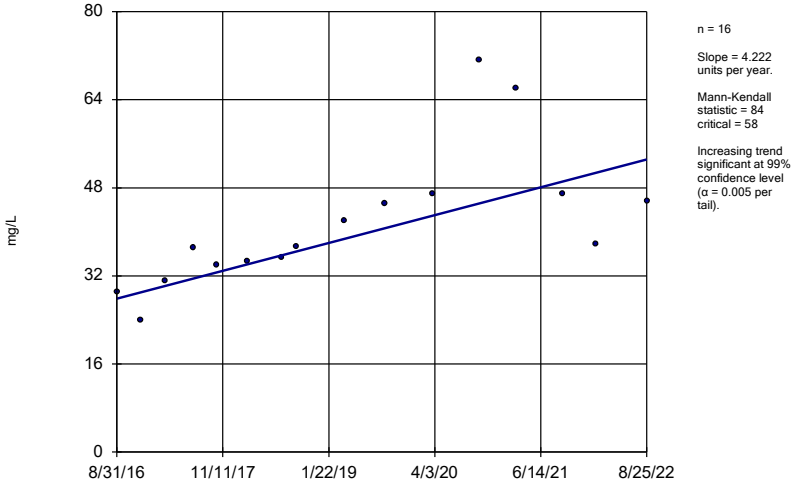
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



n = 16

Slope = 4.222 units per year.

Mann-Kendall statistic = 84
critical = 58

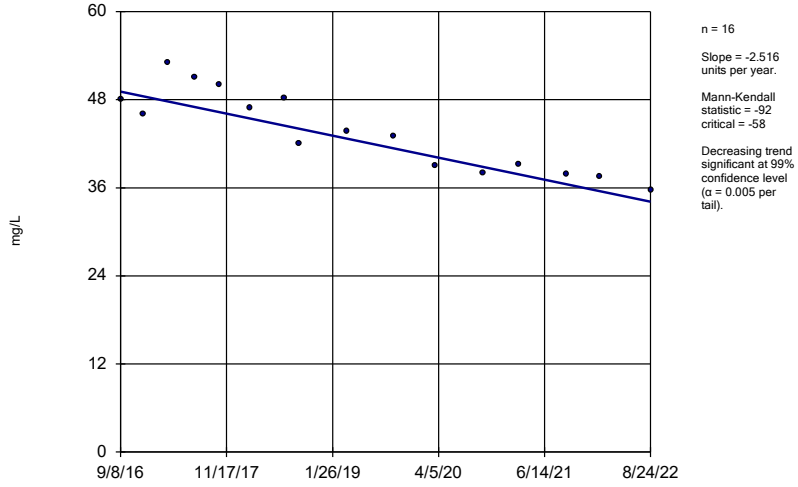
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-25



n = 16

Slope = -2.516 units per year.

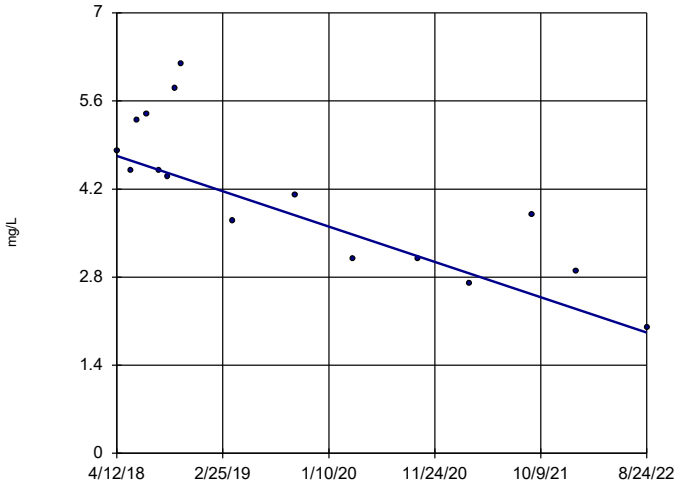
Mann-Kendall statistic = -92
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-2D (bg)



n = 16

Slope = -0.6424 units per year.

Mann-Kendall statistic = -70 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

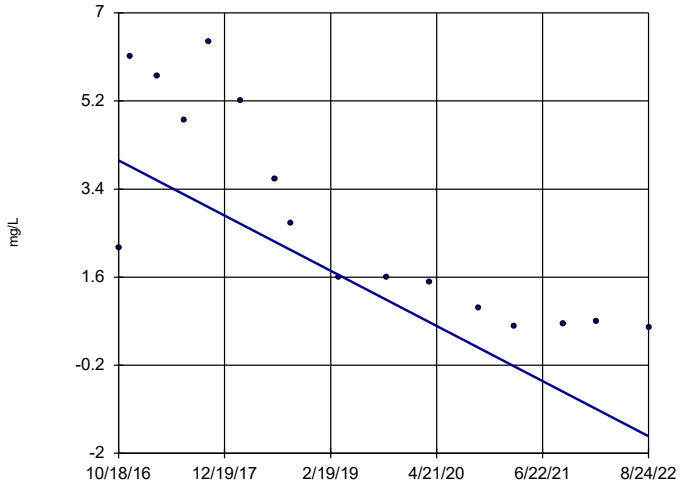
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-31 (bg)



n = 16

Slope = -0.9633 units per year.

Mann-Kendall statistic = -91 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

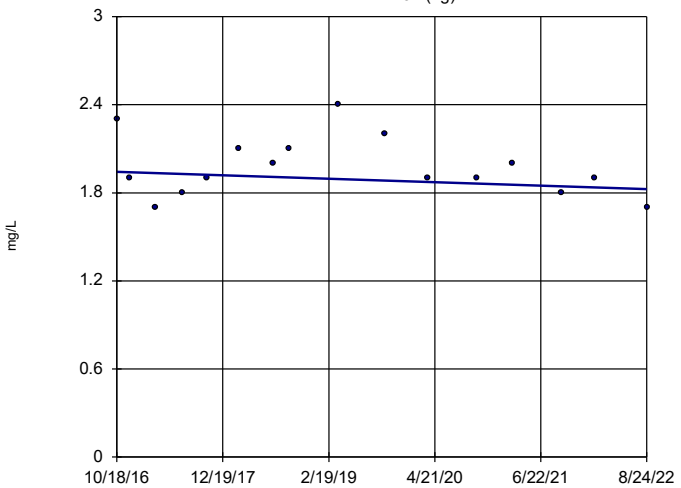
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = -0.02024 units per year.

Mann-Kendall statistic = -16 critical = -58

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

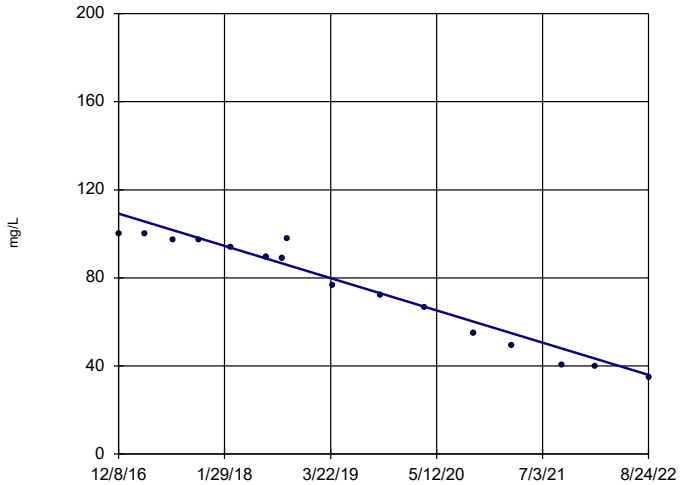
Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-33



n = 16

Slope = -12.82 units per year.

Mann-Kendall statistic = -108 critical = -58

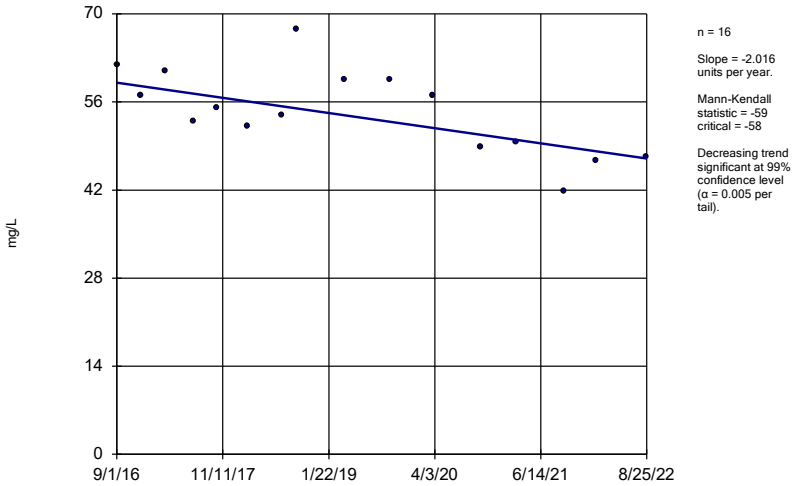
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-7D



n = 16

Slope = -2.016 units per year.

Mann-Kendall statistic = -59
critical = -58

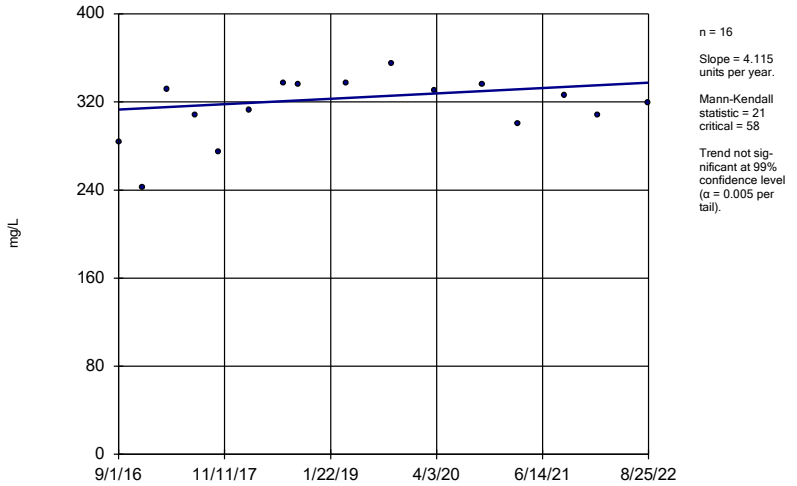
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-15



n = 16

Slope = 4.115 units per year.

Mann-Kendall statistic = 21
critical = 58

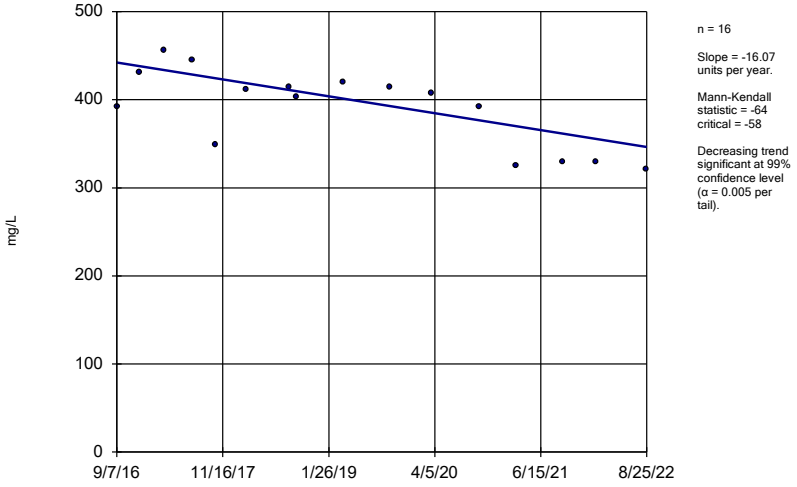
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-17



n = 16

Slope = -16.07 units per year.

Mann-Kendall statistic = -64
critical = -58

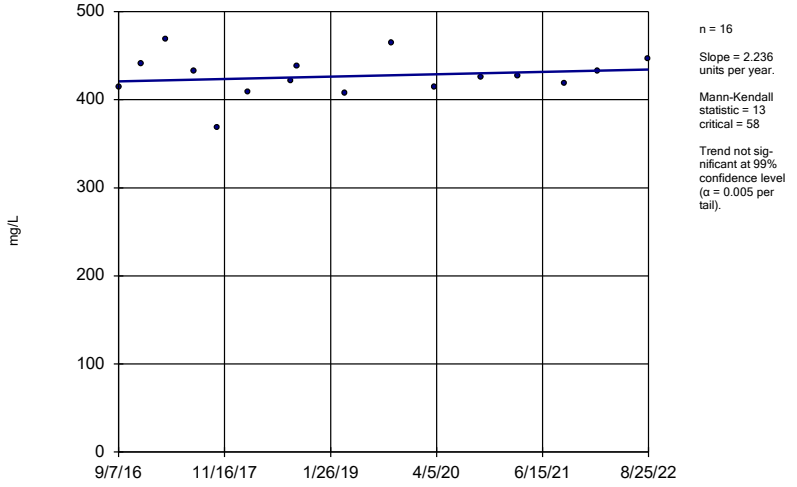
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 16

Slope = 2.236 units per year.

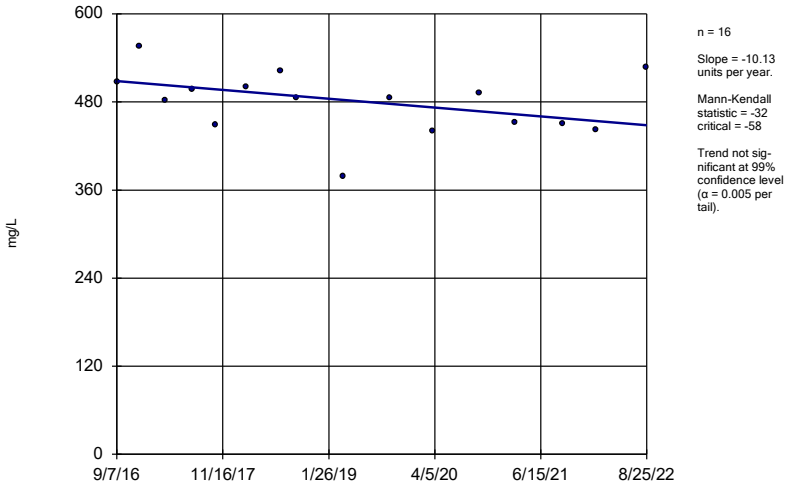
Mann-Kendall statistic = 13
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-19



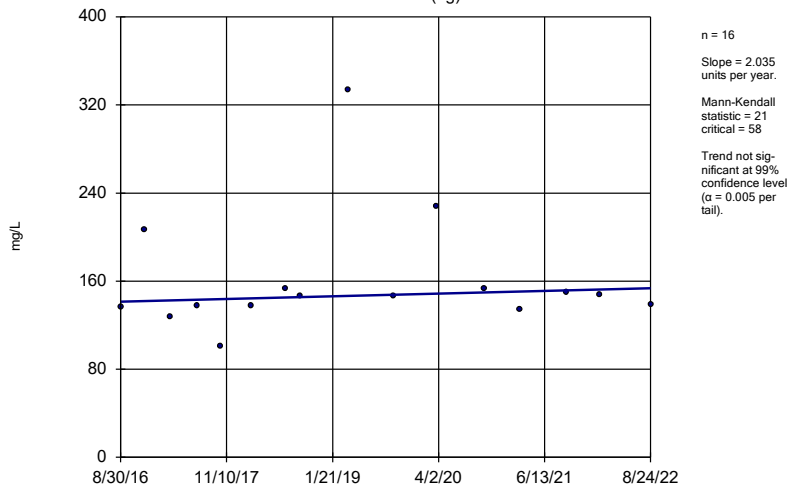
Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



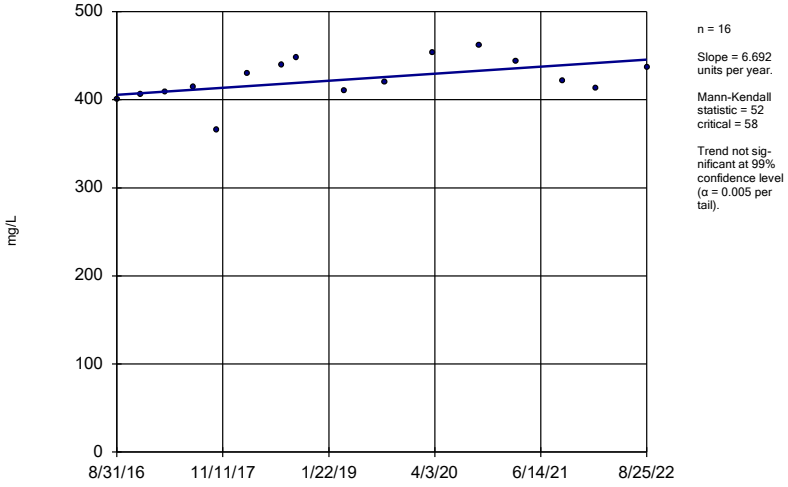
Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



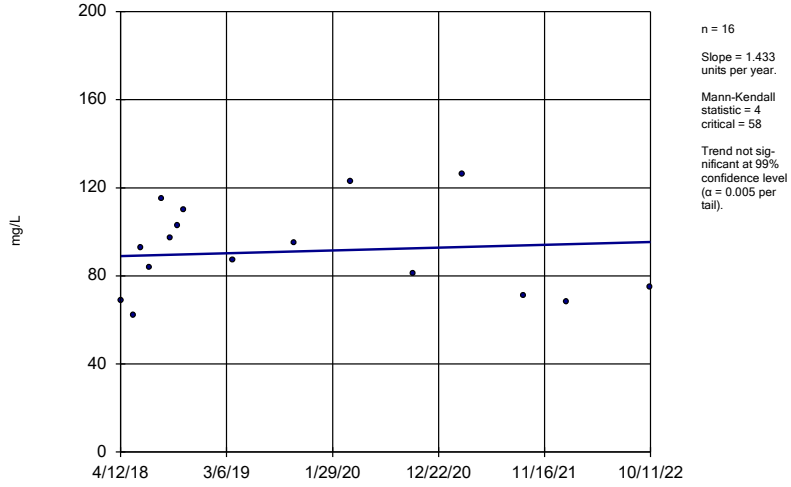
Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)

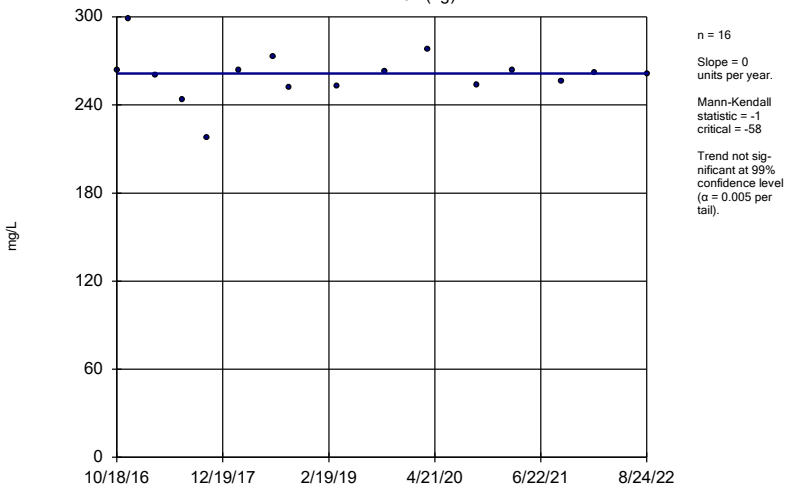


Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

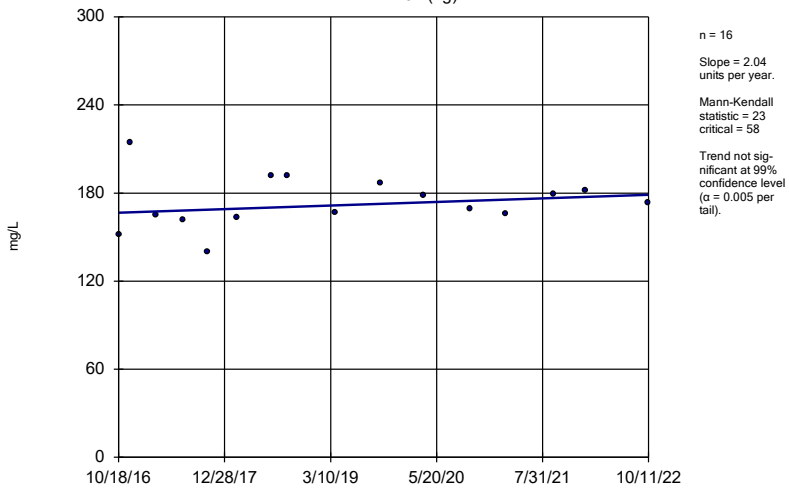
Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 16

Slope = 2.04 units per year.

Mann-Kendall statistic = 23 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

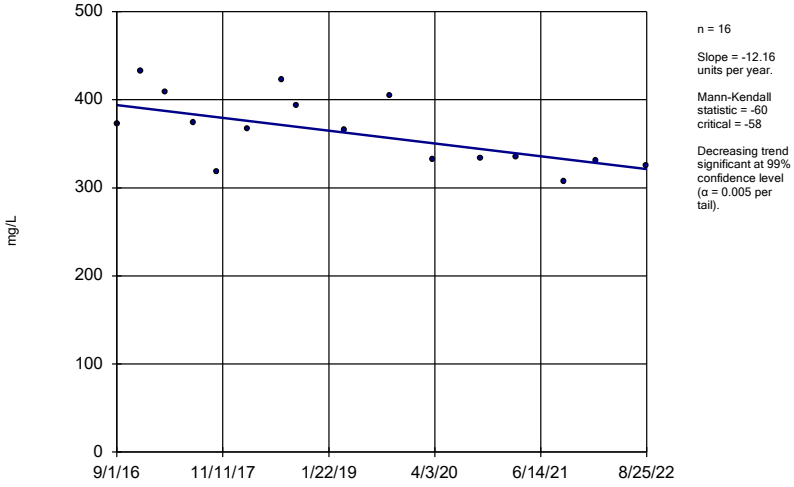
Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-7D



n = 16

Slope = -12.16 units per year.

Mann-Kendall statistic = -60 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/21/2022 4:46 PM View: Appendix III - Trend Tests

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE G.

Upper Tolerance Limit Summary Table

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 10:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	64	n/a	n/a	54.69	n/a	n/a	0.03752	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	56	n/a	n/a	85.71	n/a	n/a	0.05656	NP Inter(NDs)
Barium (mg/L)	n/a	0.04787	n/a	n/a	n/a	n/a	64	-4.397	0.6775	1.563	None	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	48	n/a	n/a	95.83	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	48	n/a	n/a	100	n/a	n/a	0.08526	NP Inter(NDs)
Chromium (mg/L)	n/a	0.009976	n/a	n/a	n/a	n/a	64	0.05165	0.02407	25	Kaplan-Meier	sqrt(x)	0.05	Inter
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	64	n/a	n/a	96.88	n/a	n/a	0.03752	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.662	n/a	n/a	n/a	n/a	62	0.7165	0.2849	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	68	n/a	n/a	47.06	n/a	n/a	0.03056	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	64	n/a	n/a	79.69	n/a	n/a	0.03752	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	64	n/a	n/a	79.69	n/a	n/a	0.03752	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	56	n/a	n/a	89.29	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	64	n/a	n/a	78.13	n/a	n/a	0.03752	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	64	n/a	n/a	100	n/a	n/a	0.03752	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	64	n/a	n/a	90.63	n/a	n/a	0.03752	NP Inter(NDs)

FIGURE H.

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0035	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.048	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		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.66	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 I.

Confidence Intervals - All Results (No Significant)

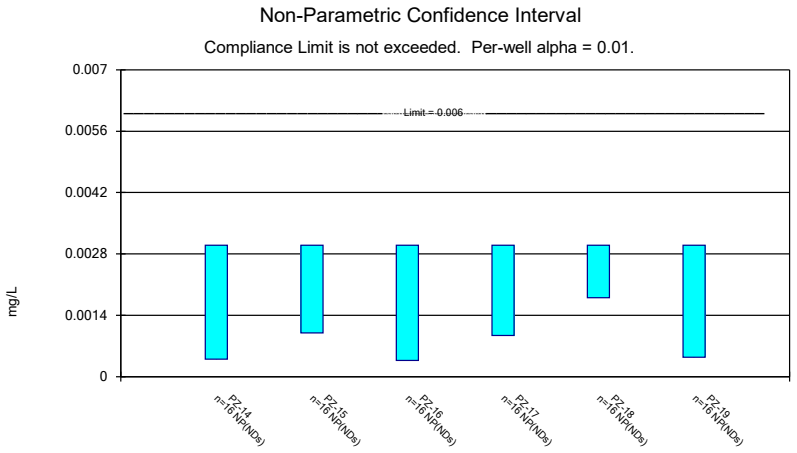
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 11:01 AM

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	16	0.002838	0.00065	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	16	0.002726	0.0007512	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	16	0.002836	0.0006575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	16	0.002569	0.0009303	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.003	0.0018	0.006	No	16	0.002825	0.0004837	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	16	0.00284	0.00064	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	16	0.002755	0.0007115	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	16	0.002699	0.0008256	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	16	0.002501	0.001073	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	14	0.004702	0.001114	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	14	0.004114	0.001764	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	14	0.00408	0.001828	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	14	0.004693	0.001149	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	14	0.004669	0.00124	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.001	0.01	No	14	0.00386	0.001885	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	14	0.004403	0.001519	85.71	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.03145	0.01661	2	No	16	0.02474	0.01324	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-15	0.076	0.048	2	No	16	0.05913	0.01516	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.0467	0.034	2	No	16	0.04293	0.0132	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07887	0.07041	2	No	16	0.07464	0.006501	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	16	0.0295	0.01319	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05859	0.05228	2	No	16	0.05543	0.004848	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.05067	0.03709	2	No	16	0.04388	0.01044	0	None	No	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	16	0.1051	0.006471	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.07063	0.04977	2	No	15	0.0602	0.01539	0	None	No	0.01	Param.
Barium (mg/L)	PZ-7D	0.009796	0.006842	2	No	16	0.008319	0.00227	0	None	No	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	12	0.00045	0.0001168	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	12	0.0004667	0.0001155	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0011	0.1	No	16	0.003334	0.001954	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.00087	0.1	No	16	0.002769	0.002042	43.75	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	16	0.004722	0.00111	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	16	0.004733	0.001067	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.002196	0.001274	0.1	No	16	0.002537	0.001455	18.75	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	16	0.004794	0.000825	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002159	0.0008284	0.1	No	16	0.002762	0.001782	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	16	0.004519	0.001351	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.006	No	16	0.003625	0.002114	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0005	0.006	No	16	0.003351	0.002204	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	16	0.004506	0.00135	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00058	0.006	No	16	0.003615	0.002124	68.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0018	0.0008	0.006	No	16	0.001547	0.001003	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0007	0.006	No	16	0.003614	0.002015	62.5	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.9475	0.3298	5	No	16	0.687	0.5554	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.066	0.6938	5	No	16	0.8973	0.3291	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8728	0.4454	5	No	16	0.6591	0.3284	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.183	0.6143	5	No	15	0.8987	0.4198	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.173	0.4239	5	No	14	0.7987	0.5292	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.34	0.7215	5	No	16	1.031	0.4756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.197	0.7349	5	No	16	0.9661	0.3554	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.183	0.7453	5	No	16	0.9644	0.3368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	1.009	0.5396	5	No	16	0.7743	0.3608	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6104	0.2246	5	No	16	0.4462	0.3344	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	17	0.08865	0.02518	58.82	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-15	0.1172	0.07172	4	No	17	0.1075	0.04446	35.29	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/21/2022, 11:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	17	0.08359	0.0241	58.82	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1252	0.05759	4	No	17	0.118	0.06353	35.29	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	17	0.09947	0.03486	52.94	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.14	0.064	4	No	17	0.1087	0.07546	11.76	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.057	4	No	17	0.09918	0.05772	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2402	0.1492	4	No	17	0.1947	0.07264	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.092	4	No	17	0.1054	0.04146	58.82	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-7D	0.15	0.056	4	No	17	0.08835	0.03076	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	16	0.0009406	0.0002375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	16	0.0009426	0.0002298	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	16	0.0009045	0.0002704	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	16	0.0009401	0.0002395	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	16	0.0008284	0.0003694	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	16	0.0008836	0.0003183	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	16	0.0009401	0.0002398	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	16	0.02831	0.00675	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	16	0.01026	0.01375	31.25	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	16	0.005794	0.009456	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0024	0.04	No	16	0.006131	0.009322	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01455	0.01057	0.04	No	16	0.01256	0.00306	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	16	0.02094	0.01388	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006908	0.005581	0.04	No	16	0.006188	0.001108	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0038	0.0023	0.04	No	16	0.004594	0.006797	6.25	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	14	0.0001871	0.00003625	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	14	0.0001926	0.00002753	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	14	0.0001906	0.00003528	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	14	0.0001919	0.00003047	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	14	0.0001898	0.00003822	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	14	0.0001818	0.00004754	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	14	0.00019	0.00002987	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	14	0.0001895	0.00003929	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	14	0.000171	0.00005965	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	14	0.0001795	0.00005213	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	16	0.009406	0.002375	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	16	0.0094	0.0024	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0025	0.002	0.1	No	16	0.002669	0.001969	6.25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	16	0.008856	0.003127	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	16	0.009437	0.00225	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	16	0.004544	0.001248	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	16	0.0048	0.0008	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.005	0.0019	0.05	No	16	0.00385	0.001328	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.005	0.0023	0.05	No	16	0.0035	0.00141	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0018	0.05	No	16	0.003987	0.001551	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	16	0.0009413	0.000235	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.0002	0.002	No	16	0.0007006	0.0004001	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.00018	0.002	No	16	0.0006877	0.0004177	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00022	0.002	No	16	0.0006444	0.0003726	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	16	0.0008226	0.0003815	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0007268	0.0004869	0.002	No	16	0.0006069	0.0001843	6.25	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00016	0.002	No	16	0.000545	0.0004167	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00036	0.002	No	16	0.0006963	0.0003262	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	16	0.0007269	0.0004188	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0001	0.002	No	16	0.0007227	0.0004256	68.75	None	No	0.01	NP (NDs)



Constituent: Antimony Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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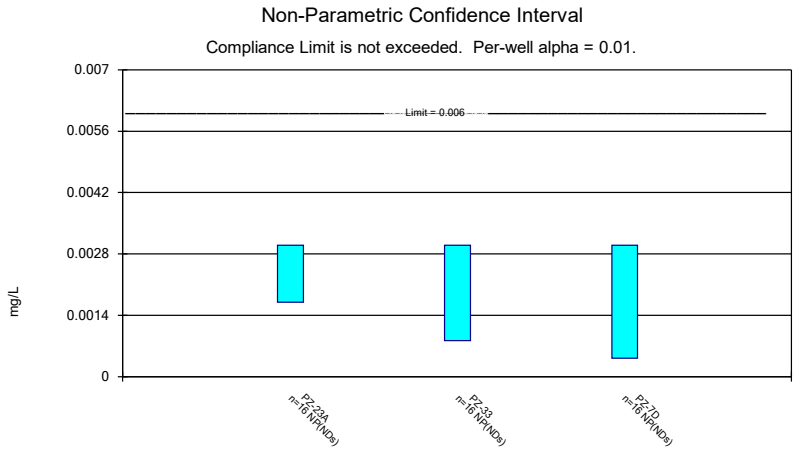
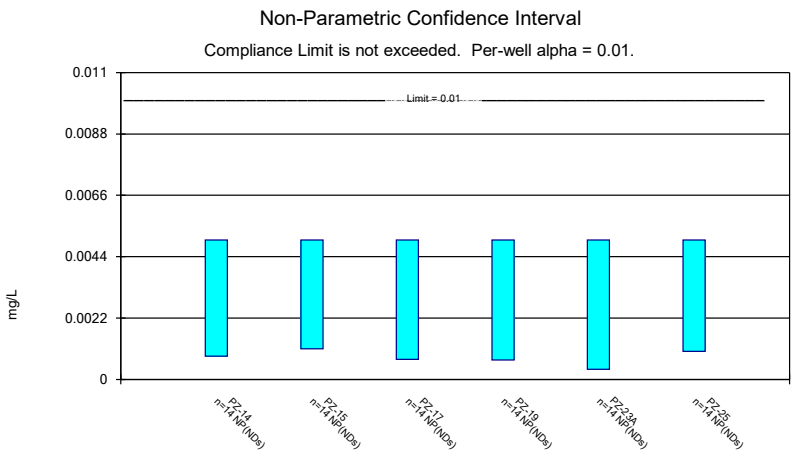


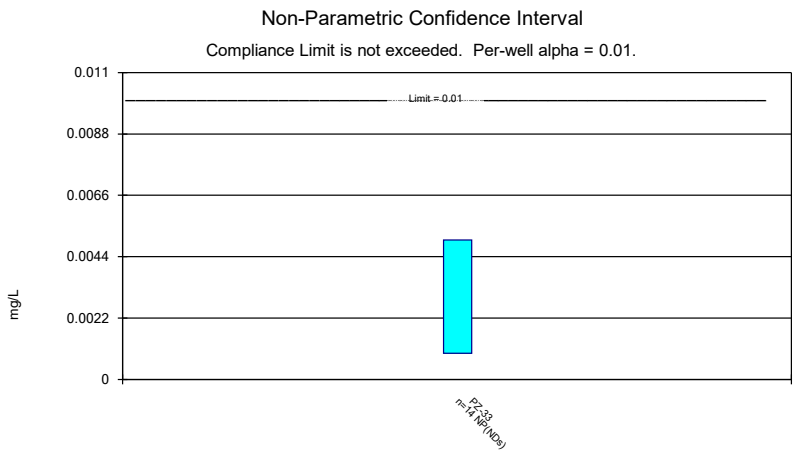
Constituent: Antimony Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Arsenic Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

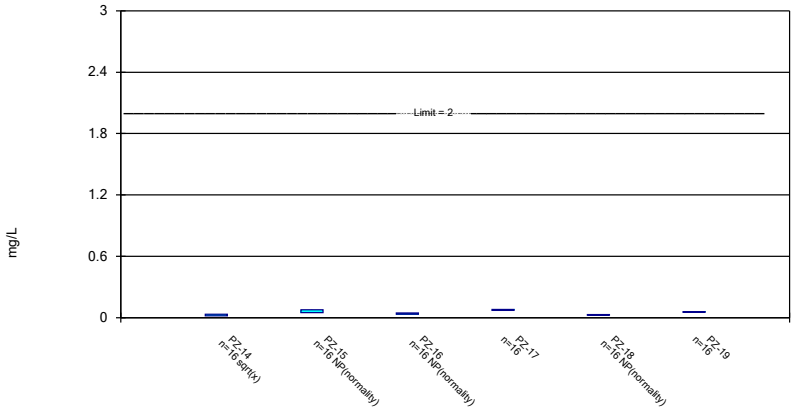
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG



Constituent: Arsenic Analysis Run 11/21/2022 11:00 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.

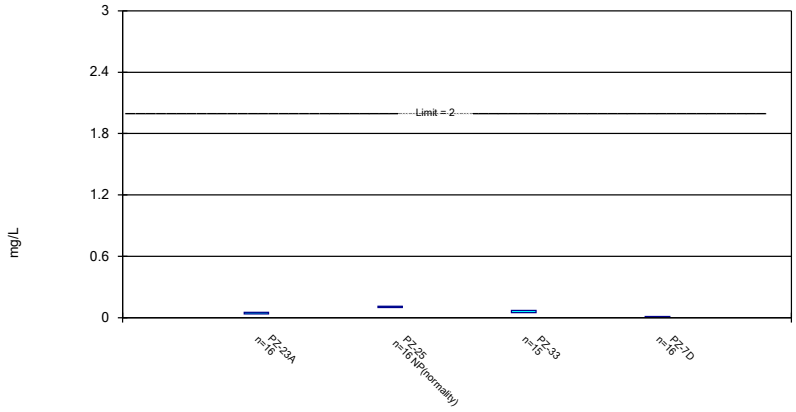


Constituent: Barium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

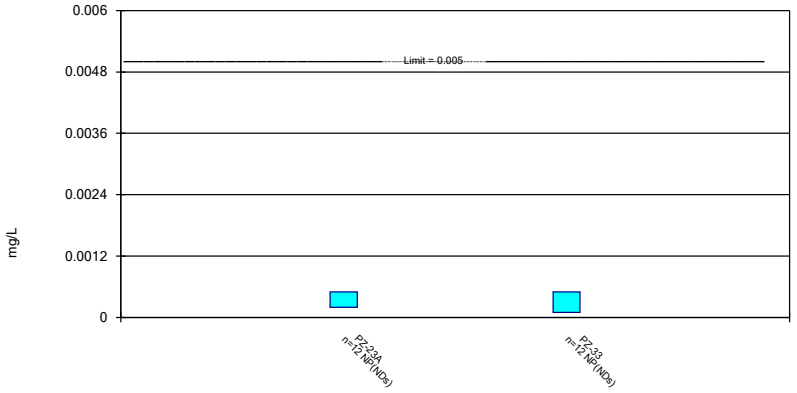


Constituent: Barium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

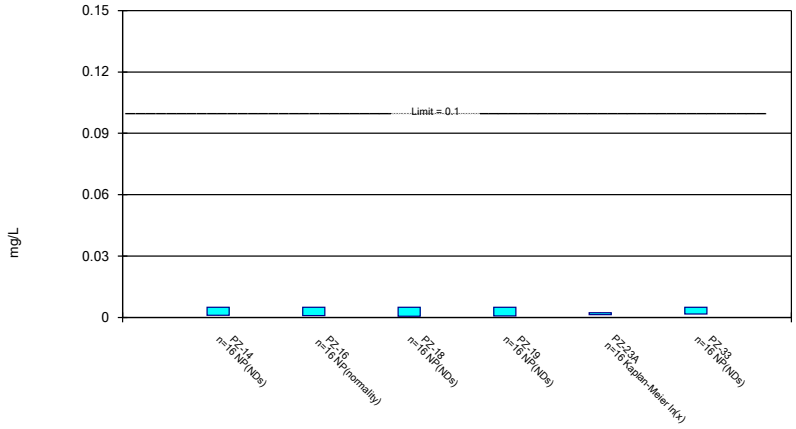


Constituent: Cadmium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

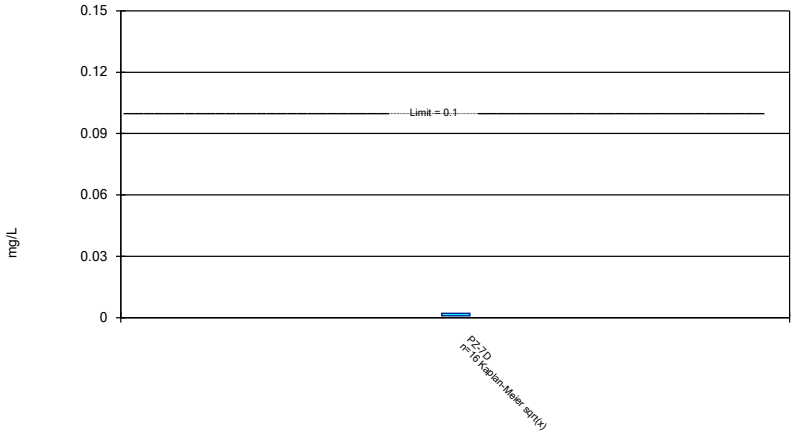


Constituent: Chromium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

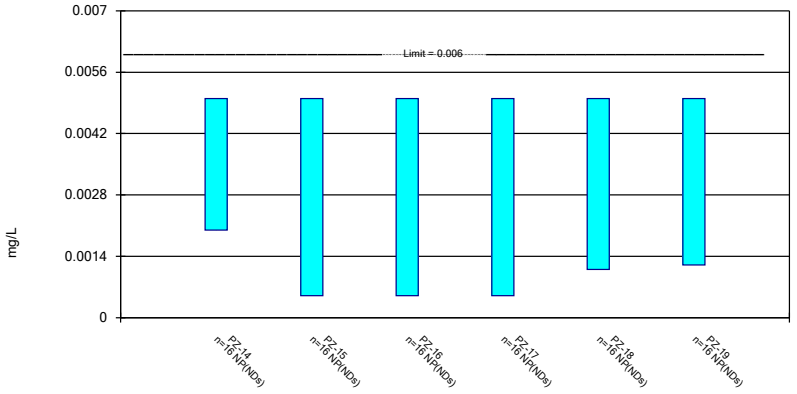


Constituent: Chromium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

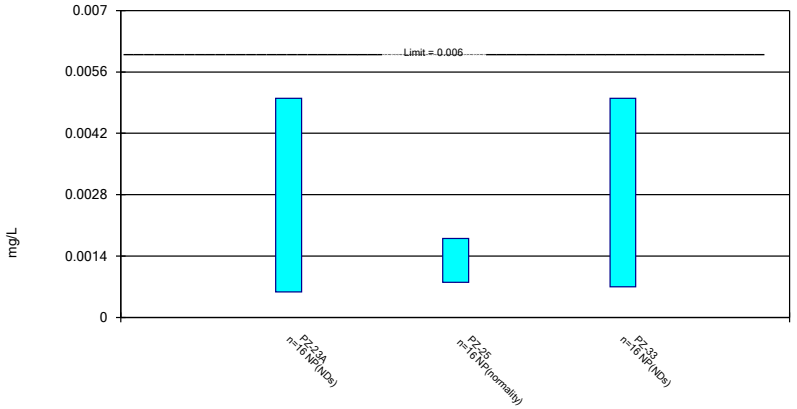


Constituent: Cobalt Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

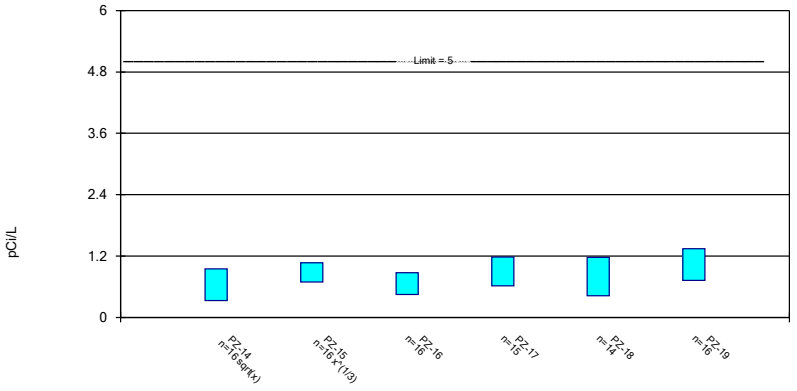


Constituent: Cobalt Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

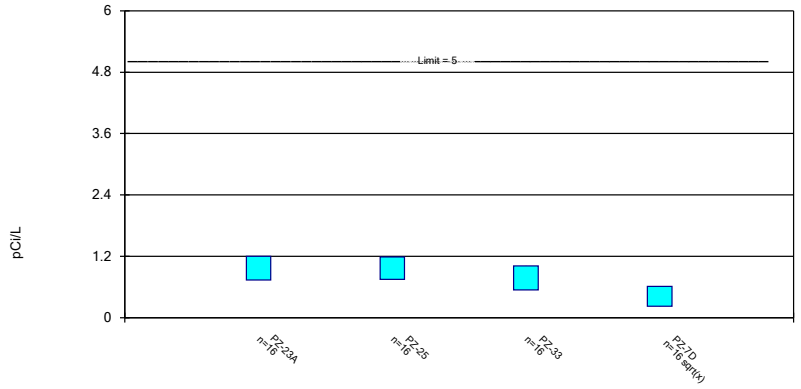
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confid
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric Confidence Interval

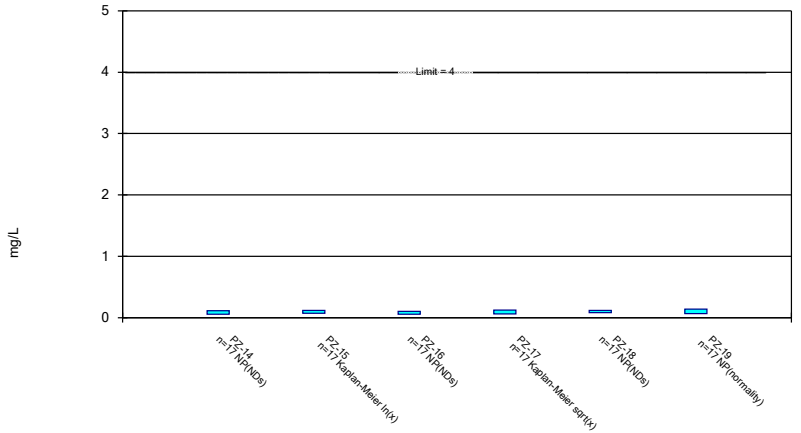
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confid
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

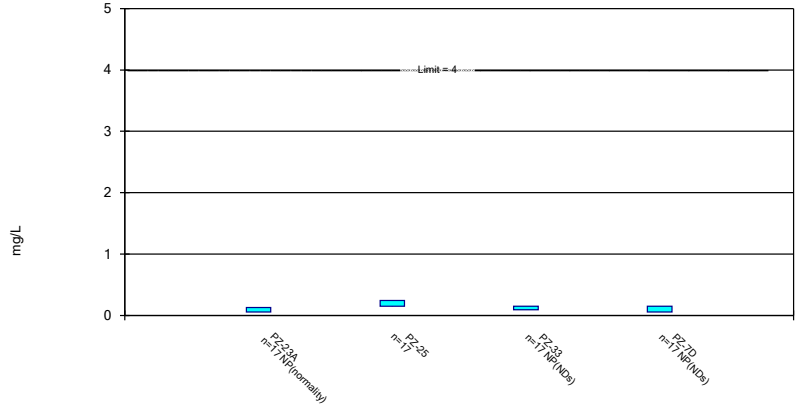
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric and Non-Parametric (NP) Confidence Interval

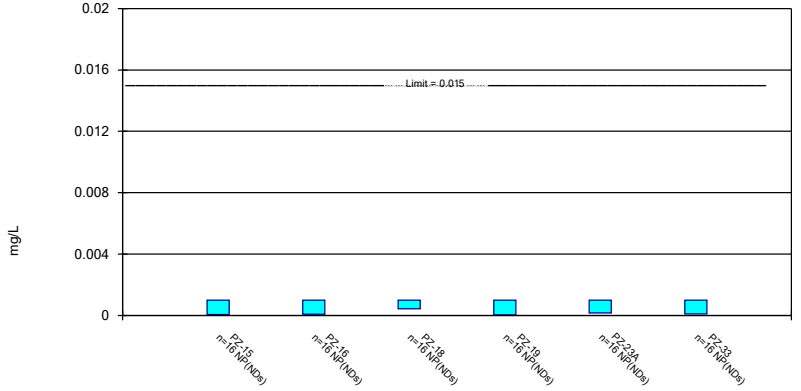
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

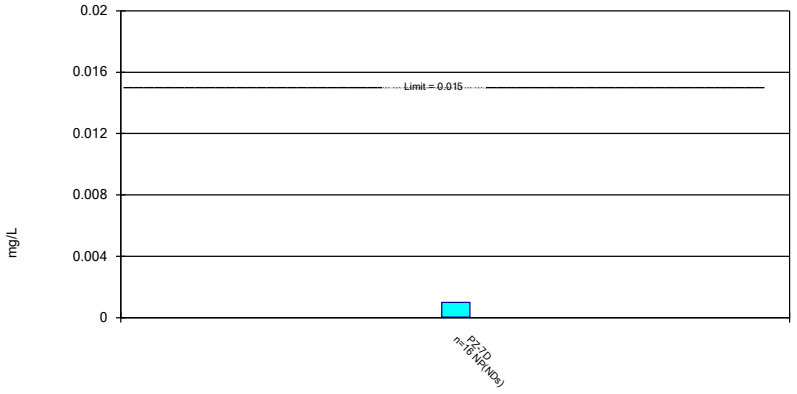
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

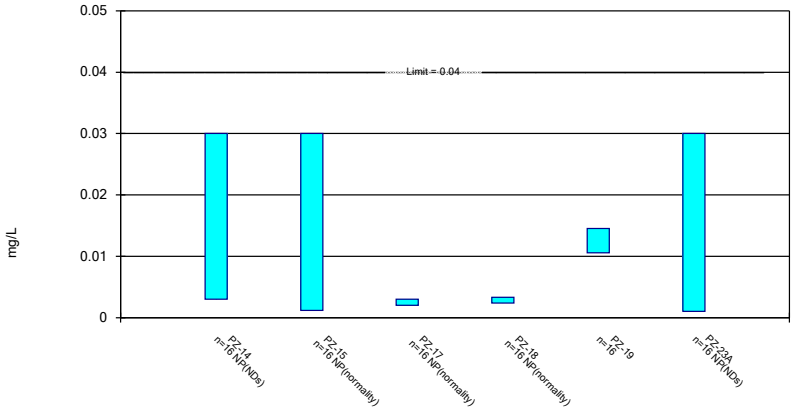
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/21/2022 11:00 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: Lithium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

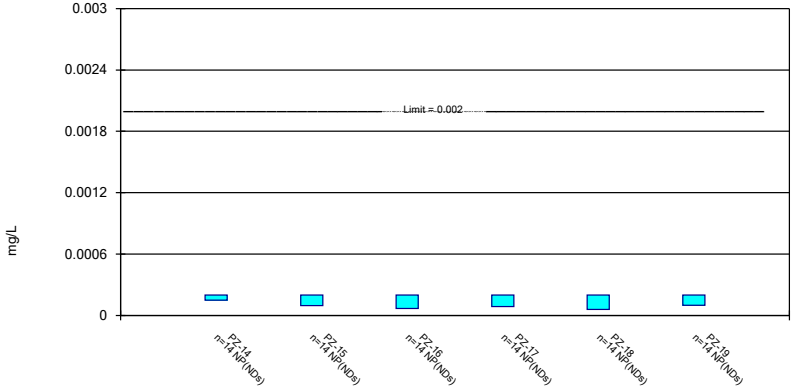
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

Constituent: Lithium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

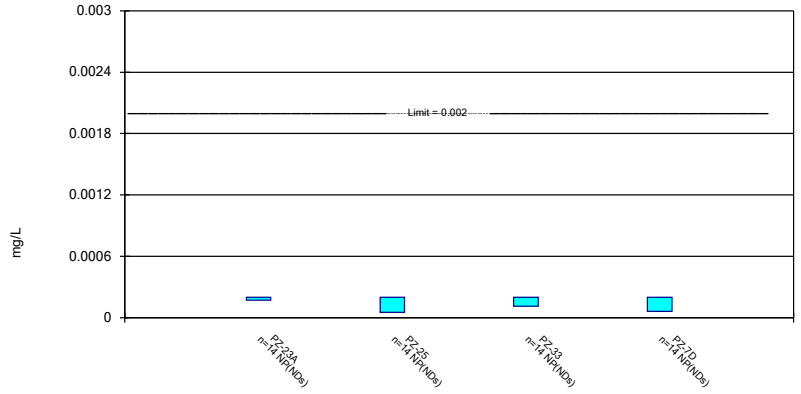


Constituent: Mercury Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

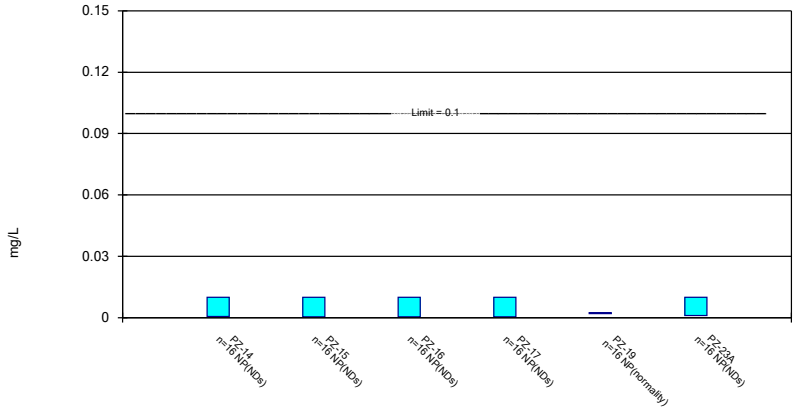


Constituent: Mercury Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

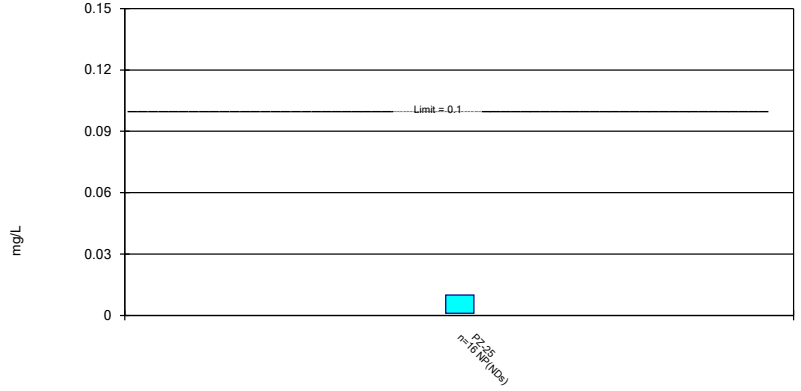


Constituent: Molybdenum Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

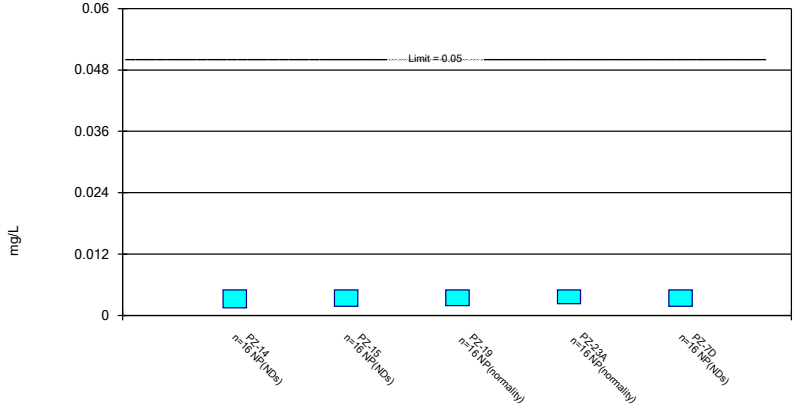


Constituent: Molybdenum Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

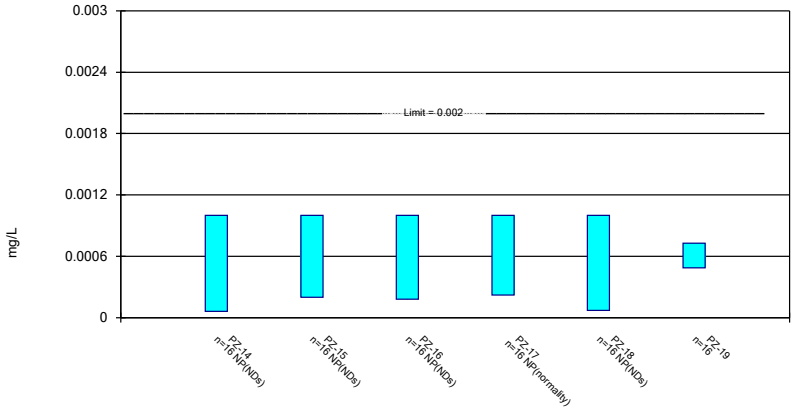
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 11/21/2022 11:00 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.

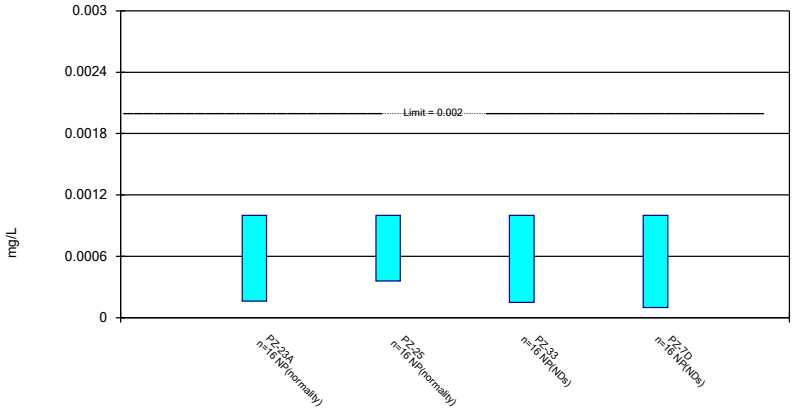


Constituent: Thallium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/21/2022 11:00 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.003					
9/1/2016		0.001 (J)				
9/6/2016			<0.003			
9/7/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
12/8/2016				<0.003	<0.003	<0.003
3/21/2017	0.0004 (J)					
3/22/2017		<0.003	<0.003	<0.003	<0.003	
3/23/2017						<0.003
7/11/2017	<0.003		<0.003			
7/12/2017		<0.003		<0.003	<0.003	<0.003
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/19/2017						<0.003
2/20/2018	<0.003					
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003
7/11/2018	<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					
9/13/2018		<0.003	<0.003		<0.003	
9/14/2018				<0.003		<0.003
10/2/2019	<0.003	<0.003	<0.003	<0.003		
10/3/2019					<0.003	0.00044 (X)
3/25/2020	<0.003			0.00094 (J)		
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003
8/27/2020					<0.003	
10/6/2020	<0.003		<0.003			
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003
3/3/2021	<0.003					<0.003
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003	
9/15/2021	<0.003	<0.003	<0.003			
9/16/2021				<0.003	<0.003	<0.003
1/26/2022	<0.003	<0.003	<0.003			
1/27/2022				<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Mean	0.002838	0.002726	0.002836	0.002569	0.002825	0.00284
Std. Dev.	0.00065	0.0007512	0.0006575	0.0009303	0.0004837	0.00064
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0004	0.001	0.00037	0.00094	0.0018	0.00044

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.003		
9/1/2016			<0.003
12/7/2016	<0.003		<0.003
12/8/2016		<0.003	
3/21/2017	<0.003		
3/22/2017			<0.003
3/23/2017		<0.003	
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
10/18/2017	<0.003		
10/19/2017		<0.003	<0.003
2/20/2018	<0.003		
2/21/2018		<0.003	<0.003
7/11/2018	<0.003		
7/12/2018		<0.003	<0.003
9/13/2018	<0.003		<0.003
9/14/2018		<0.003	
10/4/2018		<0.003	
9/10/2019	<0.003		
10/3/2019		<0.003	0.00029 (X)
3/25/2020	<0.003		
3/26/2020		<0.003	0.00042 (J)
8/26/2020	0.00038 (J)	<0.003	0.00031 (J)
10/6/2020	<0.003		
10/7/2020		0.00037 (J)	<0.003
3/3/2021	0.0017 (J)		
3/4/2021		<0.003	<0.003
9/15/2021	<0.003		
9/16/2021		<0.003	<0.003
1/26/2022	<0.003		
1/27/2022		<0.003	<0.003
8/24/2022		0.00082 (J)	
8/25/2022	<0.003		<0.003
Mean	0.002755	0.002699	0.002501
Std. Dev.	0.0007115	0.0008256	0.001073
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.00082	0.00042

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.005				<0.005	
9/1/2016		<0.005				
9/7/2016			<0.005	<0.005		
9/8/2016						0.0017 (J)
12/7/2016	<0.005	<0.005			<0.005	
12/8/2016			<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)
3/23/2017				0.0007 (J)		
7/11/2017	<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)	<0.005	<0.005		
10/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005
10/19/2017				<0.005		
2/20/2018	<0.005				<0.005	
2/21/2018		0.00089 (J)	0.00072 (J)	<0.005		0.00071 (J)
7/11/2018	<0.005				<0.005	
7/12/2018		<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
9/14/2018			<0.005	<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		
3/25/2020	<0.005		<0.005		<0.005	<0.005
3/26/2020		<0.005		<0.005		
8/26/2020	<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		
1/26/2022	<0.005	<0.005			<0.005	<0.005
1/27/2022			<0.005	<0.005		
8/24/2022						<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
Mean	0.004702	0.004114	0.00408	0.004693	0.004669	0.00386
Std. Dev.	0.001114	0.001764	0.001828	0.001149	0.00124	0.001885
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00083	0.0011	0.00072	0.0007	0.00036	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-33
12/8/2016	<0.005
3/23/2017	0.0007 (J)
7/12/2017	<0.005
10/19/2017	<0.005
2/21/2018	0.00094 (J)
7/12/2018	<0.005
9/14/2018	<0.005
10/4/2018	<0.005
10/3/2019	<0.005
3/26/2020	<0.005
8/26/2020	<0.005
9/16/2021	<0.005
1/27/2022	<0.005
8/24/2022	<0.005
Mean	0.004403
Std. Dev.	0.001519
Upper Lim.	0.005
Lower Lim.	0.00094

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	0.0253					
9/1/2016		0.103				
9/6/2016			0.0794			
9/7/2016				0.0823	0.0717	0.067
12/7/2016	0.065	0.0781	0.0689			
12/8/2016				0.0668	0.0513	0.0522
3/21/2017	0.0379					
3/22/2017		0.0589	0.0423	0.0821	0.0273	
3/23/2017						0.0591
7/11/2017	0.036		0.0467			
7/12/2017		0.0613		0.0805	0.0269	0.0604
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258	
10/19/2017						0.0542
2/20/2018	0.03					
2/21/2018		0.076	0.046	0.073	0.029	0.058
7/11/2018	0.027					
7/12/2018		0.056	0.043			0.057
8/15/2018					0.027	
8/16/2018				0.081		
9/12/2018	0.022					
9/13/2018		0.048	0.038		0.023	
9/14/2018				0.081		0.058
10/2/2019	0.017	0.049	0.038	0.074		
10/3/2019					0.025	0.057
3/25/2020	0.021			0.077		
3/26/2020		0.048	0.034		0.023	0.052
8/26/2020	0.016	0.053	0.036	0.077		0.049
8/27/2020					0.023	
10/6/2020	0.016		0.034			
10/7/2020		0.049		0.074	0.023	0.054
3/3/2021	0.017					0.055
3/4/2021		0.047	0.035	0.071	0.023	
9/15/2021	0.014	0.045	0.032			
9/16/2021				0.064	0.022	0.053
1/26/2022	0.016	0.055	0.034			
1/27/2022				0.072	0.025	0.055
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046
Mean	0.02474	0.05913	0.04293	0.07464	0.0295	0.05543
Std. Dev.	0.01324	0.01516	0.0132	0.006501	0.01319	0.004848
Upper Lim.	0.03145	0.076	0.0467	0.07887	0.029	0.05859
Lower Lim.	0.01661	0.048	0.034	0.07041	0.023	0.05228

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	0.0407			
9/1/2016				0.0117
9/8/2016		0.102		
12/7/2016	0.0581			0.0133
12/8/2016		0.102	0.162 (o)	
3/21/2017	0.0678			
3/22/2017		0.0951		0.0114
3/23/2017			0.0753	
7/11/2017	0.0574	0.102		
7/12/2017			0.0756	0.0097 (J)
10/18/2017	0.0351	0.0997		
10/19/2017			0.0681	0.0091 (J)
2/20/2018	0.05			
2/21/2018		0.11	0.085	0.0086 (J)
7/11/2018	0.051			
7/12/2018		0.1	0.076	0.0093 (J)
9/13/2018	0.038	0.1		0.0078 (J)
9/14/2018			0.071	
10/4/2018			0.072	
9/10/2019	0.029			
10/2/2019		0.11		
10/3/2019			0.057	0.007 (X)
3/25/2020	0.048	0.11		
3/26/2020			0.057	0.0072 (J)
8/26/2020	0.039	0.1	0.051	0.007 (J)
10/6/2020	0.037			
10/7/2020		0.11	0.048	0.0061 (J)
3/3/2021	0.039	0.12		
3/4/2021			0.047	0.0061
9/15/2021	0.037	0.11		
9/16/2021			0.039	0.0062
1/26/2022	0.039	0.11		
1/27/2022			0.043	0.0068
8/24/2022		0.1	0.038	
8/25/2022	0.036			0.0058
Mean	0.04388	0.1051	0.0602	0.008319
Std. Dev.	0.01044	0.006471	0.01539	0.00227
Upper Lim.	0.05067	0.11	0.07063	0.009796
Lower Lim.	0.03709	0.1	0.04977	0.006842

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/21/2022 11:01 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	
Mean	0.00045	0.0004667
Std. Dev.	0.0001168	0.0001155
Upper Lim.	0.0005	0.0005
Lower Lim.	0.0002	0.0001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.005				<0.005	
9/6/2016		<0.005				
9/7/2016			<0.005	<0.005		
12/7/2016	<0.005	<0.005			<0.005	
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			
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
10/18/2017	<0.005	<0.005	<0.005		0.0019 (J)	
10/19/2017				<0.005		<0.005
2/20/2018	<0.005				<0.005	
2/21/2018		<0.005	<0.005	<0.005		<0.005
7/11/2018	<0.005				0.0021 (J)	
7/12/2018		<0.005		<0.005		<0.005
8/15/2018			<0.005			
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		0.0022 (J)	
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
3/25/2020	0.0013 (J)				0.0012 (J)	
3/26/2020		0.0013 (J)	0.00056 (J)	0.00073 (J)		<0.005
8/26/2020	0.0011 (J)	0.00087 (J)		<0.005	0.0014 (J)	<0.005
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
3/3/2021	0.00097 (J)			<0.005	0.0015 (J)	
3/4/2021		0.0012 (J)	<0.005			<0.005
9/15/2021	0.0014 (J)	0.0011 (J)			0.0019 (J)	
9/16/2021			<0.005	<0.005		<0.005
1/26/2022	0.0012 (J)	0.0013 (J)			0.0028 (J)	
1/27/2022			<0.005	<0.005		<0.005
8/24/2022						<0.005
8/25/2022	0.0014 (J)	0.0012 (J)	<0.005	<0.005	0.0022 (J)	
Mean	0.003334	0.002769	0.004722	0.004733	0.002537	0.004794
Std. Dev.	0.001954	0.002042	0.00111	0.001067	0.001455	0.000825
Upper Lim.	0.005	0.005	0.005	0.005	0.002196	0.005
Lower Lim.	0.0011	0.00087	0.00056	0.00073	0.001274	0.0017

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.005
12/7/2016	0.003 (J)
3/22/2017	0.0005 (J)
7/12/2017	<0.005
10/19/2017	0.0005 (J)
2/21/2018	<0.005
7/12/2018	<0.005
9/13/2018	<0.005
10/3/2019	0.0004 (X)
3/26/2020	0.0016 (J)
8/26/2020	0.0011 (J)
10/7/2020	0.0014 (J)
3/4/2021	0.0024 (J)
9/16/2021	0.0025 (J)
1/27/2022	0.0034 (J)
8/25/2022	0.0024 (J)
Mean	0.002762
Std. Dev.	0.001782
Upper Lim.	0.002159
Lower Lim.	0.0008284

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<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)
12/7/2016	0.002 (J)	0.0005 (J)	<0.005			
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)
3/21/2017	<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			
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005	
10/19/2017						<0.005
2/20/2018	<0.005					
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005
7/11/2018	<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					
9/13/2018		<0.005	<0.005		<0.005	
9/14/2018				<0.005		<0.005
10/2/2019	<0.005	<0.005	<0.005	<0.005		
10/3/2019					<0.005	<0.005
3/25/2020	<0.005			0.00032 (J)		
3/26/2020		<0.005	<0.005		<0.005	<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005
8/27/2020					<0.005	
10/6/2020	<0.005		<0.005			
10/7/2020		<0.005		<0.005	<0.005	<0.005
3/3/2021	<0.005					<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005	
9/15/2021	<0.005	<0.005	<0.005			
9/16/2021				<0.005	<0.005	<0.005
1/26/2022	<0.005	<0.005	<0.005			
1/27/2022				<0.005	<0.005	<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.004519	0.003625	0.004719	0.003351	0.004756	0.004506
Std. Dev.	0.001351	0.002114	0.001125	0.002204	0.000975	0.00135
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.002	0.0005	0.0005	0.0005	0.0011	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.005		
9/8/2016		0.0008 (J)	
12/7/2016	0.0008 (J)		
12/8/2016		<0.005	0.0041 (J)
3/21/2017	<0.005		
3/22/2017		0.001 (J)	
3/23/2017			0.0008 (J)
7/11/2017	<0.005	0.001 (J)	
7/12/2017			0.0007 (J)
10/18/2017	<0.005	0.0011 (J)	
10/19/2017			0.0005 (J)
2/20/2018	<0.005		
2/21/2018		0.00075 (J)	0.0012 (J)
7/11/2018	<0.005		
7/12/2018		0.0008 (J)	0.00053 (J)
9/13/2018	<0.005	0.001 (J)	
9/14/2018			<0.005
10/4/2018			<0.005
9/10/2019	<0.005		
10/2/2019		0.0017 (X)	
10/3/2019			<0.005
3/25/2020	0.0003 (J)	0.0018 (J)	
3/26/2020			<0.005
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005
10/6/2020	0.00067 (J)		
10/7/2020		0.0014 (J)	<0.005
3/3/2021	0.00049 (J)	0.0016 (J)	
3/4/2021			<0.005
9/15/2021	<0.005	0.002 (J)	
9/16/2021			<0.005
1/26/2022	<0.005	0.0016 (J)	
1/27/2022			<0.005
8/24/2022		0.0016 (J)	<0.005
8/25/2022	<0.005		
Mean	0.003615	0.001547	0.003614
Std. Dev.	0.002124	0.001003	0.002015
Upper Lim.	0.005	0.0018	0.005
Lower Lim.	0.00058	0.0008	0.0007

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	1.77					
9/1/2016		1.19				
9/6/2016			1.12			
9/7/2016				1.06 (U)	1.51	1.22
12/7/2016	0.672 (U)	1.88	1.37			
12/8/2016				1.3	1.29	1.69
3/21/2017	0.33 (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)			
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)	
10/19/2017						0.398 (U)
2/20/2018	2.12					
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)
7/11/2018	0.232 (U)					
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)
9/12/2018	0.532 (U)					
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)	
9/14/2018				1.16		0.74 (U)
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)		
10/3/2019					2.07	1.9
3/25/2020	0.694 (U)			0.385 (U)		
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)
10/6/2020	0.265 (U)		1.12 (U)			
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893
3/3/2021	0.328 (U)					0.469 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)			
9/16/2021				0.377 (U)	0.681 (U)	1.4
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)			
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937
Mean	0.687	0.8973	0.6591	0.8987	0.7987	1.031
Std. Dev.	0.5554	0.3291	0.3284	0.4198	0.5292	0.4756
Upper Lim.	0.9475	1.066	0.8728	1.183	1.173	1.34
Lower Lim.	0.3298	0.6938	0.4454	0.6143	0.4239	0.7215

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	1.85			
9/1/2016				0.88 (U)
9/8/2016		1.41		
12/7/2016	0.844 (U)			0.179 (U)
12/8/2016		1.39	0.968 (U)	
3/21/2017	0.832 (U)			
3/22/2017		0.852 (U)		0.279 (U)
3/23/2017			0.444 (U)	
7/11/2017	0.824 (U)	1.04		
7/12/2017			0.814 (U)	0.125 (U)
10/18/2017	1.19	0.678 (U)		
10/19/2017			0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			
2/21/2018		0.863 (U)	1.05 (U)	0.504 (U)
7/11/2018	1.29			
7/12/2018		1.42	0.751 (U)	0.188 (U)
9/13/2018	0.765 (U)	0.766 (U)		0.0542 (U)
9/14/2018			1.01 (U)	
10/4/2018			1.05	
9/10/2019	0.575 (U)			
10/2/2019		1.48		
10/3/2019			1.62 (U)	1.37
3/25/2020	1.39	0.91 (U)		
3/26/2020			0.473 (U)	0.43 (U)
8/26/2020	0.774 (U)	0.95 (U)	0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)			
10/7/2020		1.01 (U)	0.442 (U)	0.232 (U)
3/3/2021	1.01 (U)	0.545 (U)		
3/4/2021			1.03 (U)	0.529 (U)
9/15/2021	0.742 (U)	1.07 (U)		
9/16/2021			0.184 (U)	0.382 (U)
1/26/2022	0.76 (U)	0.282 (U)		
1/27/2022			0.259 (U)	0.315 (U)
8/24/2022		0.764 (U)	0.764 (U)	
8/25/2022	0.396 (U)			0.771 (U)
Mean	0.9661	0.9644	0.7743	0.4462
Std. Dev.	0.3554	0.3368	0.3608	0.3344
Upper Lim.	1.197	1.183	1.009	0.6104
Lower Lim.	0.7349	0.7453	0.5396	0.2246

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	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)
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)			
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	<0.1					
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)			
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)	
10/19/2017						<0.1
2/20/2018	0.04 (J)					
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37
7/11/2018	<0.1					
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					
9/13/2018		0.15 (J)	<0.1		<0.1	
9/14/2018				<0.1		<0.1
3/27/2019	<0.1		<0.1		<0.1	
3/28/2019		0.1		0.15		0.074
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)		
10/3/2019					0.043 (X)	0.084 (X)
3/25/2020	<0.1			<0.1		
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020					<0.1	
10/6/2020	<0.1		<0.1			
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)
3/3/2021	<0.1					0.058 (J)
3/4/2021		<0.1	<0.1	<0.1	<0.1	
9/15/2021	<0.1	<0.1	<0.1			
9/16/2021				0.052 (J)	<0.1	0.067 (J)
1/26/2022	<0.1	<0.1	<0.1			
1/27/2022				<0.1	<0.1	0.056 (J)
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)
Mean	0.08865	0.1075	0.08359	0.118	0.09947	0.1087
Std. Dev.	0.02518	0.04446	0.0241	0.06353	0.03486	0.07546
Upper Lim.	0.11	0.1172	0.1	0.1252	0.12	0.14
Lower Lim.	0.056	0.07172	0.053	0.05759	0.08	0.064

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	0.13 (J)			
9/1/2016				<0.1
9/8/2016		0.25 (J)		
12/7/2016	0.13 (J)			0.15 (J)
12/8/2016		0.22 (J)	0.21 (J)	
3/21/2017	0.05 (J)			
3/22/2017		0.16 (J)		0.09 (J)
3/23/2017			0.18 (J)	
7/11/2017	0.05 (J)	0.23 (J)		
7/12/2017			0.06 (J)	0.02 (J)
10/18/2017	<0.1	0.28 (J)		
10/19/2017			<0.1	<0.1
2/20/2018	0.3 (J)			
2/21/2018		0.29 (J)	0.039 (J)	0.045 (J)
7/11/2018	0.077 (J)			
7/12/2018		0.21 (J)	<0.1	<0.1
9/13/2018	<0.1	0.22 (J)		<0.1
9/14/2018			<0.1	
10/4/2018			0.15 (J)	
3/27/2019	<0.1	0.37		
3/28/2019			<0.1	<0.1
9/10/2019	<0.1			
10/2/2019		0.16 (X)		
10/3/2019			0.06 (X)	0.041 (X)
3/25/2020	0.066 (J)	0.13 (J)		
3/26/2020			<0.1	<0.1
8/26/2020	0.057 (J)	0.14	<0.1	<0.1
10/6/2020	0.052 (J)			
10/7/2020		0.13	<0.1	<0.1
3/3/2021	<0.1	0.12		
3/4/2021			<0.1	<0.1
9/15/2021	<0.1	0.14		
9/16/2021			<0.1	<0.1
1/26/2022	<0.1	0.11		
1/27/2022			<0.1	<0.1
8/24/2022		0.15	0.092 (J)	
8/25/2022	0.074 (J)			0.056 (J)
Mean	0.09918	0.1947	0.1054	0.08835
Std. Dev.	0.05772	0.07264	0.04146	0.03076
Upper Lim.	0.13	0.2402	0.15	0.15
Lower Lim.	0.057	0.1492	0.092	0.056

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016					<0.001	
9/1/2016	<0.001					
9/6/2016		<0.001				
9/7/2016			<0.001	<0.001		
12/7/2016	<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			
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
10/18/2017	<0.001	<0.001	<0.001		<0.001	
10/19/2017				<0.001		<0.001
2/20/2018					<0.001	
2/21/2018	<0.001	<0.001	0.00043 (J)	<0.001		<0.001
7/11/2018					<0.001	
7/12/2018	<0.001	<0.001		<0.001		<0.001
8/15/2018			<0.001			
9/13/2018	<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)
3/25/2020					0.00015 (J)	
3/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2020	<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
3/3/2021				<0.001	5.8E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001			<0.001
9/15/2021	<0.001	<0.001			<0.001	
9/16/2021			<0.001	<0.001		<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
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
Mean	0.0009406	0.0009426	0.0009045	0.0009401	0.0008284	0.0008836
Std. Dev.	0.0002375	0.0002298	0.0002704	0.0002395	0.0003694	0.0003183
Upper Lim.	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

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.001
12/7/2016	<0.001
3/22/2017	<0.001
7/12/2017	<0.001
10/19/2017	<0.001
2/21/2018	<0.001
7/12/2018	<0.001
9/13/2018	<0.001
10/3/2019	<0.001
3/26/2020	<0.001
8/26/2020	<0.001
10/7/2020	<0.001
3/4/2021	4.1E-05 (J)
9/16/2021	<0.001
1/27/2022	<0.001
8/25/2022	<0.001
Mean	0.0009401
Std. Dev.	0.0002398
Upper Lim.	0.001
Lower Lim.	4.1E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.03					<0.03
9/1/2016		<0.03				
9/7/2016			<0.03	<0.03	0.0082 (J)	
12/7/2016	0.003 (J)	<0.03				<0.03
12/8/2016			<0.03	<0.03	0.0061 (J)	
3/21/2017	<0.03					<0.03
3/22/2017		0.0011 (J)	0.0021 (J)	0.0029 (J)		
3/23/2017					0.0122 (J)	
7/11/2017	<0.03					<0.03
7/12/2017		<0.03	0.002 (J)	0.0024 (J)	0.013 (J)	
10/18/2017	<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
2/21/2018		<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)	
7/11/2018	<0.03					<0.03
7/12/2018		0.0012 (J)			0.013 (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
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)			
10/3/2019				0.0027 (X)	0.016 (X)	
3/25/2020	<0.03		0.003 (J)			0.0011 (J)
3/26/2020		0.0014 (J)		0.0027 (J)	0.013 (J)	
8/26/2020	<0.03	0.0013 (J)	0.0028 (J)		0.011 (J)	0.0011 (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)	
3/3/2021	<0.03				0.015 (J)	0.001 (J)
3/4/2021		0.0014 (J)	0.002 (J)	0.0029 (J)		
9/15/2021	<0.03	0.0013 (J)				0.00085 (J)
9/16/2021			0.0021 (J)	0.0023 (J)	0.013 (J)	
1/26/2022	<0.03	0.0013 (J)				<0.03
1/27/2022			0.0022 (J)	0.003 (J)	0.016 (J)	
8/25/2022	<0.03	0.0012 (J)	0.0018 (J)	0.0033 (J)	0.012 (J)	<0.03
Mean	0.02831	0.01026	0.005794	0.006131	0.01256	0.02094
Std. Dev.	0.00675	0.01375	0.009456	0.009322	0.00306	0.01388
Upper Lim.	0.03	0.03	0.003	0.0033	0.01455	0.03
Lower Lim.	0.003	0.0012	0.002	0.0024	0.01057	0.001

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-7D
9/1/2016		0.0022 (J)
9/8/2016	0.0038 (J)	
12/7/2016		0.0023 (J)
12/8/2016	0.0038 (J)	
3/22/2017	0.0068 (J)	0.0025 (J)
7/11/2017	0.0059 (J)	
7/12/2017		0.0033 (J)
10/18/2017	0.0057 (J)	
10/19/2017		<0.03
2/21/2018	0.0063 (J)	0.0034 (J)
7/12/2018	0.0063 (J)	0.0038 (J)
9/13/2018	0.0061 (J)	0.0026 (J)
10/2/2019	0.0074 (X)	
10/3/2019		0.0032 (X)
3/25/2020	0.0066 (J)	
3/26/2020		0.0031 (J)
8/26/2020	0.0065 (J)	0.0023 (J)
10/7/2020	0.0063 (J)	0.0023 (J)
3/3/2021	0.0061 (J)	
3/4/2021		0.0031 (J)
9/15/2021	0.0061 (J)	
9/16/2021		0.0025 (J)
1/26/2022	0.008 (J)	
1/27/2022		0.0039 (J)
8/24/2022	0.0073 (J)	
8/25/2022		0.003 (J)
Mean	0.006188	0.004594
Std. Dev.	0.001108	0.006797
Upper Lim.	0.006908	0.0038
Lower Lim.	0.005581	0.0023

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.0002					
9/1/2016		<0.0002				
9/6/2016			<0.0002			
9/7/2016				<0.0002	<0.0002	<0.0002
12/7/2016	7E-05 (J)	<0.0002	<0.0002			
12/8/2016				<0.0002	<0.0002	<0.0002
3/21/2017	<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			
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/19/2017						<0.0002
2/20/2018	<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					
7/12/2018		<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	
9/14/2018				<0.0002		<0.0002
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)
8/27/2020					<0.0002	
10/6/2020	<0.0002		<0.0002			
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002					<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002			
9/16/2021				<0.0002	<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002	<0.0002			
1/27/2022				<0.0002	<0.0002	<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001871	0.0001926	0.0001906	0.0001919	0.0001898	0.0001818
Std. Dev.	3.625E-05	2.753E-05	3.528E-05	3.047E-05	3.822E-05	4.754E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	9.7E-05	6.8E-05	8.6E-05	5.7E-05	0.0001

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.0002			
9/1/2016				<0.0002
9/8/2016		<0.0002		
12/7/2016	9E-05 (J)			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	
7/11/2017	<0.0002	<0.0002		
7/12/2017			<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002		
10/19/2017			<0.0002	<0.0002
2/20/2018	<0.0002			
2/21/2018		5.3E-05 (J)	4.3E-05 (J)	5.3E-05 (J)
7/11/2018	<0.0002			
7/12/2018		<0.0002	<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	
8/26/2020	0.00017 (J)	<0.0002	0.00011 (J)	<0.0002
10/6/2020	<0.0002			
10/7/2020		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		
3/4/2021			<0.0002	<0.0002
9/15/2021	<0.0002	<0.0002		
9/16/2021			<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002		
1/27/2022			<0.0002	<0.0002
8/24/2022			<0.0002	
8/25/2022	<0.0002			<0.0002
10/11/2022		<0.0002		
Mean	0.00019	0.0001895	0.000171	0.0001795
Std. Dev.	2.987E-05	3.929E-05	5.965E-05	5.213E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00017	5.3E-05	0.00011	6E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/21/2022 11:01 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
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)	
12/7/2016	<0.01	<0.01	<0.01			<0.01
12/8/2016				<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)					0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)		
3/23/2017					0.0025 (J)	
7/11/2017	<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
10/19/2017					0.0021 (J)	
2/20/2018	<0.01					<0.01
2/21/2018		<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)	
8/16/2018				<0.01		
9/12/2018	<0.01					
9/13/2018		<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		
10/3/2019					0.0024 (X)	
3/25/2020	<0.01			<0.01		0.0011 (J)
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
10/6/2020	<0.01		<0.01			<0.01
10/7/2020		<0.01		<0.01	0.0019 (J)	
3/3/2021	<0.01				0.0021 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01		
9/15/2021	<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
1/27/2022				<0.01	0.0022 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	0.0017 (J)	<0.01
Mean	0.009406	0.0094	0.0094	0.0094	0.002669	0.008856
Std. Dev.	0.002375	0.0024	0.0024	0.0024	0.001969	0.003127
Upper Lim.	0.01	0.01	0.01	0.01	0.0025	0.01
Lower Lim.	0.0005	0.0004	0.0004	0.0004	0.002	0.0011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25
9/8/2016	<0.01
12/8/2016	<0.01
3/22/2017	0.001 (J)
7/11/2017	<0.01
10/18/2017	<0.01
2/21/2018	<0.01
7/12/2018	<0.01
9/13/2018	<0.01
10/2/2019	<0.01
3/25/2020	<0.01
8/26/2020	<0.01
10/7/2020	<0.01
3/3/2021	<0.01
9/15/2021	<0.01
1/26/2022	<0.01
8/24/2022	<0.01
Mean	0.009437
Std. Dev.	0.00225
Upper Lim.	0.01
Lower Lim.	0.001

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/21/2022 11:01 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			<0.005		
12/7/2016	<0.005	<0.005		<0.005	<0.005
12/8/2016			<0.005		
3/21/2017	<0.005			<0.005	
3/22/2017		<0.005			<0.005
3/23/2017			<0.005		
7/11/2017	<0.005			<0.005	
7/12/2017		<0.005	<0.005		<0.005
10/18/2017	<0.005	<0.005		<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
7/11/2018	<0.005			<0.005	
7/12/2018		<0.005	<0.005		<0.005
9/12/2018	<0.005				
9/13/2018		<0.005		<0.005	<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)
Mean	0.004544	0.0048	0.00385	0.0035	0.003987
Std. Dev.	0.001248	0.0008	0.001328	0.00141	0.001551
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0015	0.0018	0.0019	0.0023	0.0018

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/21/2022 11:01 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
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016			<0.001			
9/7/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	<0.001			
12/8/2016				<0.001	<0.001	0.0003 (J)
3/21/2017	6E-05 (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)			
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)	
10/19/2017						0.0005 (J)
2/20/2018	<0.001					
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)
7/11/2018	<0.001					
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					
9/13/2018		<0.001	0.00017 (J)		<0.001	
9/14/2018				<0.001		0.00076 (J)
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)		
10/3/2019					<0.001	0.00071 (X)
3/25/2020	<0.001			0.0002 (J)		
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)
8/27/2020					<0.001	
10/6/2020	<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)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001			
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)
1/26/2022	<0.001	<0.001	<0.001			
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)
Mean	0.0009413	0.0007006	0.0006877	0.0006444	0.0008226	0.0006069
Std. Dev.	0.000235	0.0004001	0.0004177	0.0003726	0.0003815	0.0001843
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0007268
Lower Lim.	6E-05	0.0002	0.00018	0.00022	7.1E-05	0.0004869

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/21/2022 11:01 AM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.001			
9/1/2016				<0.001
9/8/2016		<0.001		
12/7/2016	0.0002 (J)			<0.001
12/8/2016		<0.001	<0.001	
3/21/2017	0.0003 (J)			
3/22/2017		<0.001		0.0002 (J)
3/23/2017			0.0001 (J)	
7/11/2017	0.0002 (J)	<0.001		
7/12/2017			0.0001 (J)	0.0001 (J)
10/18/2017	0.0001 (J)	<0.001		
10/19/2017			0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			
2/21/2018		<0.001	<0.001	<0.001
7/11/2018	0.00018 (J)			
7/12/2018		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001		<0.001
9/14/2018			<0.001	
10/4/2018			<0.001	
9/10/2019	<0.001			
10/2/2019		0.00024 (X)		
10/3/2019			0.00018 (X)	7.8E-05 (X)
3/25/2020	0.00015 (J)	0.00037 (J)		
3/26/2020			0.00015 (J)	8.5E-05 (J)
8/26/2020	0.00016 (J)	0.00037 (J)	<0.001	<0.001
10/6/2020	<0.001			
10/7/2020		0.00027 (J)	<0.001	<0.001
3/3/2021	0.00017 (J)	0.00036 (J)		
3/4/2021			<0.001	<0.001
9/15/2021	<0.001	0.00066 (J)		
9/16/2021			<0.001	<0.001
1/26/2022	<0.001	0.00039 (J)		
1/27/2022			<0.001	<0.001
8/24/2022		0.00048 (J)	<0.001	
8/25/2022	<0.001			<0.001
Mean	0.000545	0.0006963	0.0007269	0.0007227
Std. Dev.	0.0004167	0.0003262	0.0004188	0.0004256
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.00016	0.00036	0.00015	0.0001