

2019 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company – Plant Mitchell
Ash Ponds A, 1, and 2
Project No.: 6122160170

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CERTIFICATION STATEMENT

This 2019 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Mitchell - Ash Ponds A, 1, and 2 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 Wood Environment & Infrastructure Solutions, Inc.



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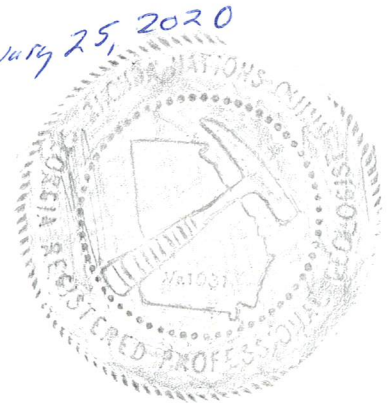


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1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this 2019 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (GPC) 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.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95 and the Georgia EPD Rule 391-3-4-.10(6)(a)-(c). This semi-annual report documents the activities completed during the second half of 2019 in accordance with EPD Rule 391-3-4-.10(6)(c). Two monitoring events were conducted during this monitoring period: (1) an initial assessment monitoring event was conducted in August 2019 as a result of statistical exceedances during the first detection monitoring event in March 2019, and (2) the subsequent assessment event conducted in October 2019, which served as the semi-annual compliance monitoring event for the year.

1.1 Site Description and Background

Georgia Power Company'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 Plant Mitchell site is generally composed of the former coal-fired electric generating facility to the north and Ash Ponds A, 1, and 2 to the south. The Site is partly bounded by the Flint River on the west, the Georgia and Florida Railway on the east, pecan orchards to the south. The northern boundary of the Site is a residential property with a mowed lot. The wooded land immediately north of the former plant buildings is owned by GPC.

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 will be 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 Application was submitted to Georgia EPD in November 2018 and is currently under review. 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.

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 in the region are overlain by approximately 0-70 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. 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} cm/sec or 10^{-1} to 10^{-5} 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 ft/day to 30 ft/day with a median value of 0.002 ft/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 ft/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. 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 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 (**Figures 3 and 4 Potentiometric Surface – Upper Bedrock – August and October 2019**).

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.

Pursuant to § 257.91 and § 391-3-4-.10(6)(a), GPC 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 based on groundwater flow direction (**Table 1: Summary of Monitoring Well Network Well Construction and Groundwater Elevations**). The monitoring well locations are shown in **Figure 2: Monitoring Network Well Location Map**. The current monitoring well network at Ash Ponds A, 1, and 2 consists of 14 wells (4 upgradient wells, and 10 downgradient wells). The upgradient wells used to monitor groundwater quality include wells PZ-1D, PZ-2D, PZ-31, and PZ-32. Downgradient wells used to monitor groundwater quality include wells PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23, PZ-25, and PZ-33. Twenty-eight piezometers are used for water level measurements only (**Table 2: Summary of Piezometer Network Well Construction and Groundwater Elevations**).

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by § 257.90(e), the following describes monitoring-related activities performed during the initial assessment scan and first assessment compliance monitoring events during the second half of the 2019 calendar year. The groundwater sampling was performed in accordance with § 257.93. Samples were collected from each of the 14 wells in the monitoring system shown on **Figure 2**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities conducted during the second half of 2019 included the following:

- Visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.
- Abandoning six piezometers and one monitoring well to accommodate construction and pond closure activities. The well abandonment is documented in the *Phase I Well Abandonment Report at Plant Mitchell (CCR Wells), dated November 15, 2019*. The report is provided in **Appendix A: Well Abandonment Report**.

2.2 Detection Monitoring Program

In accordance with § 257.94(b), the detection groundwater monitoring program was implemented by collecting 8 background groundwater samples. In addition, a 9th round of groundwater samples was collected from the 14 CCR monitoring wells as the initial detection monitoring event. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to § 257.94(a). The background study and the initial detection monitoring event were documented in the *2019 Annual Groundwater Monitoring & Corrective Action Report*, dated August 5, 2019.

2.3 Initial Assessment Monitoring

Statistically Significant Increases (SSI) of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to § 257.94(e)(1), GPC implemented assessment monitoring in accordance with § 257.95. The initial assessment monitoring event was conducted from August 20 to 22, 2019. Pursuant to § 257.95(b), the CCR monitoring wells were sampled for the full suite of Appendix IV constituents during the initial assessment event. Following receipt of the initial Appendix IV sample results, the 2019 semi-annual monitoring event/assessment monitoring event was conducted October 1 to 3, 2019. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring network wells were

analyzed for Appendix III constituents and those Appendix IV constituents detected during the initial assessment event in August. Data reports for the assessment monitoring events are included in **Appendix B: Laboratory Analytical and Field Sampling Reports**. Well PZ-23 was sampled on September 10, 2019 for the 2019 semi-annual monitoring event, prior to being abandoned on September 11, 2019.

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 were recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the initial assessment and semi-annual monitoring events are summarized in **Tables 1 and 2**. Groundwater elevation data from the two monitoring events were used to develop potentiometric surface elevation contour maps (**Figure 3: Potentiometric Surface – Upper Bedrock – August 2019 and Figure 4: Potentiometric Surface – Upper Bedrock – October 2019**). Groundwater flow in the carbonate upper bedrock (**Figures 3 and 4**) is to the west-southwest. The groundwater flow pattern observed during the August and October 2019 assessment monitoring events are consistent with conditions observed during previous monitoring events.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using a derivation 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." While the presence of interpreted karst features is documented on the surface at the Plant Mitchell site, little evidence exists for the presence of well interconnected karst features within the upper bedrock aquifer. Groundwater flow in the shallow Ocala Limestone at Plant Mitchell likely is diffuse based on the above evidence. 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% (Hayes, et al., 1983). **Table 3: Groundwater Flow Velocity Calculations – August and October 2019** summarize the groundwater flow velocities. Results for groundwater flow velocities ranged from 0.01 to 0.03 feet/day (3.6 to 10.5 feet/year).

3.3 Groundwater Sampling

Groundwater samples were collected for the two assessment monitoring events in accordance with § 257.95(b) and (d). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The 14 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 (mL/min). A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen, temperature, and ORP) and a Hach 2100Q was used to measure turbidity during well purging to verify stabilization prior to sampling. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 Standard Units (S.U.);
- Specific conductance \pm 5%;
- 10% for DO > 0.5 mg/l. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 5 NTU
- Temperature – Record only, not used for stabilization criteria
- ORP – Record only, not used for stabilization criteria

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.

3.4 Laboratory Analyses

Groundwater samples collected in August 2019 for the initial assessment monitoring event were analyzed for all Appendix IV monitoring constituents only. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

Groundwater samples collected in September-October for the 2019 semi-annual monitoring event were analyzed for all of the Appendix III constituents and all of the Appendix IV constituents detected in the initial assessment monitoring event (August 2019). Beryllium, cadmium, and mercury were not detected in the groundwater samples collected during the initial assessment monitoring event and were, therefore, not analyzed during the subsequent semi-annual event in accordance with § 257.95(d)(1).

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.

3.5 Groundwater Analytical Results

Table 4: Analytical Data Summary Appendix III - September-October 2019, summarize the analytical data for the Appendix III constituents for the semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix B**.

Table 5: Analytical Data Summary Appendix IV – August and September-October 2019 summarize the analytical data for the Appendix IV constituents for the initial assessment and semi-annual monitoring events. The complete laboratory and field data sheets are included in **Appendix B**.

3.6 Quality Assurance & Quality Control

The analytical results provided in **Tables 4** and **5** provide concentrations from the two assessment 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 (MDL) and the laboratory reporting limit (PQL). The estimated value is positively identified, but is below lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Quality control procedures included calculating the relative percent difference (RPD) between sample and sample duplicate concentrations. This is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2) / 2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

The RPD calculations are provided in **Table 6: RPD Calculations** for detected concentrations above the PQL for wells and corresponding duplicates for the two assessment events. Other constituents were below the PQL. For a RPD to be representative of the process, the concentrations have to be five times the PQL in accordance with US EPA guidance on inorganic data review, (US EPA August 2014). The RPD values of concentrations five times the PQL ranged with the allowable 20% RPD indicating good sampling precision.

4.0 STATISTICAL ANALYSIS

The Site has initiated 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 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), GPC will establish groundwater protection standards for the Appendix IV monitoring constituents and complete statistical analysis of the Appendix IV groundwater monitoring data obtained during the first semi-annual assessment monitoring event within 90 days of obtaining the results. GPC will complete the assessment monitoring and statistical analysis in accordance with § 257.95 and report the results in the 2020 Annual Groundwater Monitoring and Corrective Action Report, due August 1, 2020.

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 data obtained in September-October 2019. The Interwell method was used for the analysis of the Appendix III constituents. Specific test information is provided below.

When using the interwell method, upgradient well data are pooled to establish a background statistical limit for each constituent. Appendix III data from the September-October 2019 monitoring event were compared to the statistical limit to determine whether downgradient well concentrations exceed background statistical limits. The interwell statistical method uses an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. Interwell prediction limits were used for the following locations and constituents:

- Ash Ponds A, 1, and 2: Interwell statistical methods were used for boron, calcium, chloride, fluoride, sulfate, Total Dissolved Solids (TDS), and pH.

Data from groundwater samples from downgradient wells collected in September-October 2019 detection monitoring event were compared to the statistical limits to evaluate whether concentrations exceed background statistical limits.

If data from a sampling event initially exceeds the PL, an optional resampling strategy can be used to verify the result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance. If the initial finding is not verified by a resampling result, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

The following table provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the monitoring events conducted in 2019 and will be used for routine monitoring in the future.

Table 7: Statistical Method Summary

| | | |
|----------------------------|---------------------------------------|--|
| 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. |



| | | |
|-------------------------|----------------------------|--|
| Statistical Methodology | 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 | <ul style="list-style-type: none"> ▪ 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. |

4.2 Statistical Analyses Results – Appendix III

Analytical data for Appendix III constituents from the 2019 semi-annual monitoring event in September-October 2019 were analyzed in accordance with the statistical analysis plan. The statistical analysis and comparison to prediction limits are included as **Appendix C: Statistical Analysis**. Based on the statistical results presented in **Appendix C**, the following summarizes the SSIs identified during the 2019 semi-annual monitoring event.



Table 8: Statistical Analysis Results Summary

| Constituent | Wells with Concentrations Above Prediction Limits |
|------------------------|---|
| Boron | PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23, PZ-25, PZ-33 |
| Calcium | PZ-7D, PZ-17, PZ-18, PZ-19, PZ-23 |
| Chloride | PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19 |
| pH | PZ-7D, PZ-18, PZ-19, PZ-23 |
| Sulfate | PZ-7D, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23, PZ-25, PZ-33 |
| Total Dissolved Solids | PZ-7D, PZ-15, PZ-17, PZ-18, PZ-19, PZ-23, PZ-33 |

4.3 Statistical Analyses - Appendix IV

Pursuant to § 257.95, Appendix IV groundwater quality data will be statistically analyzed and compared to groundwater protection standards within 90 days of receiving data from the first (October 2019) assessment monitoring event. GPC will complete the assessment monitoring and statistical analysis in accordance with § 257.95 and report the results in the 2020 Annual Groundwater Monitoring and Corrective Action Report, due on August 1, 2020.



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 in March 2019. Similar SSIs of Appendix III constituents were detected in the 2019 semi-annual event. Pursuant to § 257.94(e)(1), GPC will continue assessment monitoring in accordance with § 257.95.

6.0 CONCLUSIONS & FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for Plant Mitchell Ash Ponds A, 1, and 2 identified SSIs of Appendix III groundwater monitoring constituents. GPC has initiated assessment monitoring pursuant to § 257.95. During the next semi-annual reporting period of 2020, GPC will establish groundwater protection standards for Appendix IV constituents and complete statistical analysis according to the regulations. The next semi-annual sampling event is planned for March-April 2020.

Monitoring wells to replace the abandoned CCR monitoring/gauging network wells (PZ-23 and PZ-24) are planned for installation prior to the next monitoring event.

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TABLES & FIGURES

**TABLE 1
SUMMARY OF MONITORING WELL NETWORK WELL CONSTRUCTION and GROUNDWATER ELEVATIONS**

| Well | Top of Casing Elevation (ft above msl) | Ground Surface Elevation (ft above msl) | Top of Screen Elevation (ft above msl) | Screen Bottom Elevation (ft above msl) | Screen Length (feet) | Depth to Water | Groundwater Elevation | Depth to Water | Groundwater Elevation | Location |
|-------|---|--|---|---|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------|
| | | | | | | (ft below TOC) 8/20/2019 | (ft above msl) 8/20/2019 | (ft below TOC) 10/1/2019 | (ft above msl) 10/1/2019 | |
| PZ-1D | 196.21 | 192.7 | 125.1 | 115.1 | 10.0 | 53.98 | 142.23 | 55.95 | 140.26 | Upgradient |
| PZ-2D | 178.39 | 175.1 | 107.5 | 97.5 | 10.0 | 37.15 | 141.24 | 39.42 | 138.97 | Upgradient |
| PZ-31 | 182.86 | 180.1 | 133.1 | 123.1 | 10.0 | 40.73 | 142.13 | 42.56 | 140.30 | Upgradient |
| PZ-32 | 180.72 | 178.0 | 128.7 | 118.7 | 10.0 | 39.64 | 141.08 | 41.57 | 139.15 | Upgradient |
| PZ-7D | 173.13 | 170.0 | 123.6 | 113.6 | 10.0 | 35.34 | 137.79 | 37.15 | 135.98 | Downgradient |
| PZ-14 | 183.62 | 180.4 | 140.4 | 130.4 | 10.0 | 45.58 | 138.04 | 46.72 | 136.90 | Downgradient |
| PZ-15 | 170.10 | 166.9 | 96.9 | 86.9 | 10.0 | 32.88 | 137.22 | 34.87 | 135.23 | Downgradient |
| PZ-16 | 173.71 | 170.7 | 130.7 | 120.7 | 10.0 | 36.81 | 136.90 | 38.13 | 135.58 | Downgradient |
| PZ-17 | 172.66 | 169.5 | 119.5 | 109.5 | 10.0 | 34.82 | 137.84 | 36.65 | 136.01 | Downgradient |
| PZ-18 | 169.78 | 166.6 | 116.6 | 106.6 | 10.0 | 32.19 | 137.59 | 33.97 | 135.81 | Downgradient |
| PZ-19 | 171.96 | 169.1 | 120.1 | 110.1 | 10.0 | 34.52 | 137.44 | 35.91 | 136.05 | Downgradient |
| PZ-23 | 191.62 | 188.5 | 138.5 | 128.5 | 10.0 | 52.84 | 138.78 | abandoned | | Downgradient |
| PZ-25 | 171.12 | 167.9 | 117.9 | 107.9 | 10.0 | 32.89 | 138.23 | 34.66 | 136.46 | Downgradient |
| PZ-33 | 189.52 | 186.9 | 129.1 | 119.1 | 10.0 | 51.23 | 138.29 | 52.54 | 136.98 | Downgradient |

Notes:

1. Horizontal locations referenced to the North American Datum of 1983.
2. ft msl indicates feet mean sea level.
3. TOC indicates top of casing.

**TABLE 2
SUMMARY OF PIEZOMETER NETWORK WELL CONSTRUCTION and GROUNDWATER ELEVATIONS**

| Well Name | Top of Casing Elevation (ft msl) | Ground Surface Elevation (ft msl) | Top of Screen Elevation (ft msl) | Bottom of Screen Elevation (ft msl) | Screen Length (feet) | Depth to Water (ft below TOC) 8/20/2019 | Groundwater Elevation (ft above msl) 8/20/2019 | Depth to Water (ft below TOC) 10/1/2019 | Groundwater Elevation (ft above msl) 10/1/2019 | Location |
|-----------|----------------------------------|-----------------------------------|----------------------------------|-------------------------------------|----------------------|---|--|---|--|--------------|
| PZ-01R | 191.87 | 188.2 | 131.7 | 121.7 | 10.0 | 53.39 | 138.48 | 55.54 | 136.33 | Downgradient |
| PZ-02R | 191.66 | 188.5 | 131.5 | 121.5 | 10.0 | 53.34 | 138.32 | 54.78 | 136.88 | Downgradient |
| PZ-2S | 178.60 | 175.0 | 131.0 | 121.0 | 10.0 | 37.25 | 141.35 | 39.45 | 139.15 | Upgradient |
| PZ-03R | 192.35 | 189.3 | 143.2 | 133.2 | 10.0 | 54.71 | 137.64 | 56.00 | 136.35 | Downgradient |
| PZ-3D | 190.82 | 187.7 | 110.1 | 100.1 | 10.0 | 50.27 | 140.55 | 52.24 | 138.58 | Upgradient |
| PZ-4D | 190.84 | 187.7 | 142.1 | 132.1 | 10.0 | 51.16 | 139.68 | 52.49 | 138.35 | Downgradient |
| PZ-5D | 193.82 | 190.5 | 143.0 | 133.0 | 10.0 | 52.99 | 140.83 | abandoned | | Downgradient |
| PZ-6S | 189.34 | 186.2 | 148.6 | 138.6 | 10.0 | 20.23 | 169.11 | 24.87 | 164.47 | Downgradient |
| PZ-8D | 170.27 | 166.7 | 100.1 | 90.1 | 10.0 | 32.95 | 137.32 | 34.89 | 135.38 | Downgradient |
| PZ-9D | 166.08 | 162.6 | 126.0 | 116.0 | 10.0 | 28.86 | 137.22 | 30.66 | 135.42 | Downgradient |
| PZ-10S | 175.51 | 172.3 | 136.8 | 126.8 | 10.0 | 38.42 | 137.09 | 39.61 | 135.90 | Downgradient |
| PZ-11S | 191.57 | 188.2 | 140.6 | 130.6 | 10.0 | 54.51 | 137.06 | 55.89 | 135.68 | Downgradient |
| PZ-12S | 173.19 | 169.8 | 132.2 | 122.2 | 10.0 | 36.26 | 136.93 | 38.13 | 135.06 | Downgradient |
| PZ-20 | 173.43 | 170.4 | 120.9 | 110.9 | 10.0 | 35.87 | 137.56 | 37.15 | 136.28 | Downgradient |
| PZ-21 | 179.83 | 176.7 | 116.7 | 106.7 | 10.0 | 41.04 | 138.79 | 42.61 | 137.22 | Downgradient |
| PZ-22 | 187.68 | 184.5 | 134.5 | 124.5 | 10.0 | 48.25 | 139.43 | 49.63 | 138.05 | Downgradient |
| PZ-24 | 194.91 | 191.8 | 131.8 | 121.8 | 10.0 | 56.26 | 138.65 | abandoned | | Downgradient |
| PZ-26 | 166.60 | 163.7 | 125.2 | 115.2 | 10.0 | 29.28 | 137.32 | 31.26 | 135.34 | Downgradient |
| PZ-27 | 164.40 | 161.5 | 123.2 | 113.2 | 10.0 | 27.47 | 136.93 | 28.83 | 135.57 | Downgradient |
| PZ-28 | 165.67 | 163.0 | 126.0 | 116.0 | 10.0 | 28.83 | 136.84 | 29.73 | 135.94 | Downgradient |
| PZ-29 | 172.95 | 170.0 | 123.5 | 113.5 | 10.0 | 35.44 | 137.51 | 37.41 | 135.54 | Downgradient |
| MW-102 | 170.75 | 168.0 | 131.9 | 122.7 | 9.2 | 32.65 | 138.10 | 34.38 | 136.37 | Downgradient |
| MW-105 | 187.52 | 184.8 | 119.8 | 110.3 | 9.5 | 48.19 | 139.33 | abandoned | | Downgradient |
| MW-108 | 185.59 | 183.0 | 145.3 | 136.2 | 9.1 | 47.62 | 137.97 | 48.69 | 136.90 | Downgradient |
| MW-111 | 168.00 | 165.3 | 127.8 | 118.8 | 9.0 | 30.63 | 137.37 | 32.6 | 135.40 | Downgradient |
| MW-113 | 174.76 | 172.1 | 129.8 | 120.4 | 9.5 | 37.42 | 137.34 | 38.33 | 136.43 | Downgradient |
| MW-115 | 168.97 | 166.2 | 88.6 | 79.5 | 9.1 | 31.15 | 137.82 | 33.11 | 135.86 | Downgradient |
| MW-116 | 171.86 | 169.0 | 100.8 | 94.4 | 6.4 | 34.21 | 137.65 | 35.72 | 136.14 | Downgradient |

Notes:

1. Horizontal locations referenced to the North American Datum of 1983.
2. ft msl indicates feet mean sea level.
3. TOC indicates top of casing.

TABLE 3
GROUNDWATER FLOW VELOCITY CALCULATIONS - AUGUST and OCTOBER 2019

| Potentiometric Map Date | Water-Bearing Zone | Location | 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 2019 | Limestone | PZ-01D to PZ-21 | 0.002 | 3.04 | 0.2 | 0.03 | 10.5 |
| August 2019 | Limestone | PZ-22 to PZ-19 | 0.001 | 3.04 | 0.2 | 0.02 | 6.6 |
| August 2019 | Limestone | PZ-2R to PZ-16 | 0.001 | 3.04 | 0.2 | 0.01 | 3.6 |
| October 2019 | Limestone | PZ-01D to PZ-1R | 0.002 | 3.04 | 0.2 | 0.03 | 9.6 |
| October 2019 | Limestone | PZ-24 to PZ-19 | 0.001 | 3.04 | 0.2 | 0.02 | 6.2 |
| October 2019 | Limestone | PZ-33 to PZ-15 | 0.001 | 3.04 | 0.2 | 0.01 | 4.6 |

TABLE 4
ANALYTICAL DATA SUMMARY
APPENDIX III
SEPTEMBER-OCTOBER 2019

| Well Name | Sample Date | Boron | Calcium | Chloride | Fluoride | pH | Sulfate | TDS |
|-----------------|-------------|------------|---------|----------|-----------|-----|---------|------|
| PZ-1D | 10/1/2019 | 0.0064 (J) | 46.8 | 3.6 | 0.062 (J) | 7.5 | 2.8 | 146 |
| PZ-2D | 10/2/2019 | 0.011 (J) | 21.0 | 2.7 | 0.11 (J) | 9.0 | 4.1 | 95.0 |
| PZ-7D | 10/3/2019 | 0.24 | 127 | 5.9 | 0.041 (J) | 6.9 | 59.6 | 405 |
| PZ-14 | 10/2/2019 | 0.021 (J) | 103 | 5.4 | 0.056 (J) | 7.0 | 6.2 | 312 |
| PZ-15 | 10/2/2019 | 0.17 | 101 | 8.0 | 0.075 (J) | 7.2 | 83.0 | 355 |
| PZ-16 | 10/2/2019 | 0.19 | 89.1 | 7.7 | 0.053 (J) | 7.2 | 48.5 | 284 |
| PZ-17 | 10/2/2019 | 0.28 | 115 | 7.9 | 0.063 (J) | 7.0 | 104 | 415 |
| PZ-18 | 10/3/2019 | 0.35 | 139 | 7.0 | 0.043 (J) | 6.8 | 95.8 | 464 |
| PZ-19 | 10/3/2019 | 0.52 | 125 | 5.6 | 0.084 (J) | 6.9 | 84.9 | 485 |
| PZ-23 | 9/10/2019 | 0.15 | 137 | 3.8 | < 0.30 | 6.8 | 45.1 | 420 |
| PZ-25 | 10/2/2019 | 0.21 | 92.3 | 2.6 | 0.16 (J) | 7.2 | 43.0 | 312 |
| PZ-31 | 10/2/2019 | 0.0084 (J) | 95.5 | 4.3 | 0.057 (J) | 7.1 | 1.6 | 263 |
| PZ-32 | 10/1/2019 | 0.011 (J) | 64.3 | 3.1 | 0.042 (J) | 7.4 | 2.2 | 187 |
| PZ-33 | 10/3/2019 | 0.36 | 110 | 4.1 | 0.060 (J) | 7.0 | 72.1 | 414 |
| Dup-01 PZ-17 | 10/2/2019 | 0.30 | 125 | 7.8 | 0.063 (J) | 7.0 | 102 | 418 |
| Dup-02 PZ-25 | 10/2/2019 | 0.21 | 93.2 | 2.6 | 0.17 (J) | 7.2 | 42.9 | 315 |

Notes:

1. (J) indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit.
The value followed by (J) is qualified by the laboratory as estimated.
2. < indicates the constituent was not detected above the analytical method detection limit (MDL).
3. Results are reported in milligrams per liter (mg/L). Results for pH are reported in standard units.
4. TDS indicates total dissolved solids.

**TABLE 5
ANALYTICAL DATA SUMMARY
APPENDIX IV
AUGUST and SEPTEMBER-OCTOBER 2019**

| Well Name | Sample Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Fluoride | Lead | Lithium | Mercury | Molybdenum | Radium | Selenium | Thallium |
|-----------------|-------------|-------------|-------------|------------|-----------|----------|-------------|------------|-----------|--------------|-------------|-----------|------------|----------|------------|--------------|
| PZ-1D | 8/20/2019 | 0.00074 (J) | < 0.0050 | 0.017 | < 0.0030 | < 0.0025 | 0.0028 (J) | < 0.0050 | < 0.30 | 0.00021 (J) | < 0.030 | < 0.00050 | < 0.010 | 0.595 U | < 0.010 | < 0.0010 |
| PZ-1D | 10/1/2019 | 0.00076 (J) | < 0.0050 | 0.016 | NA | NA | 0.0022 (J) | < 0.0050 | 0.062 (J) | < 0.0050 | < 0.030 | NA | 0.0010 (J) | 0.953 U | < 0.010 | < 0.0010 |
| PZ-2D | 8/21/2019 | 0.00030 (J) | 0.0014 (J) | 0.0042 (J) | < 0.0030 | < 0.0025 | 0.0057 (J) | < 0.0050 | 0.046 (J) | < 0.0050 | 0.0018 (J) | < 0.00050 | < 0.010 | 0.710 U | < 0.010 | < 0.0010 |
| PZ-2D | 10/2/2019 | 0.00042 (J) | 0.0022 (J) | 0.0046 (J) | NA | NA | 0.0049 (J) | < 0.0050 | 0.11 (J) | 0.000047 (J) | 0.0016 (J) | NA | < 0.010 | 0.712 U | < 0.010 | < 0.0010 |
| PZ-7D | 8/22/2019 | < 0.0030 | < 0.0050 | 0.0067 (J) | < 0.0030 | < 0.0025 | 0.0013 (J) | < 0.0050 | < 0.30 | < 0.0050 | 0.0029 (J) | < 0.00050 | < 0.010 | 0.672 U | < 0.010 | 0.000086 (J) |
| PZ-7D | 10/3/2019 | 0.00029 (J) | < 0.0050 | 0.0070 (J) | NA | NA | 0.00040 (J) | < 0.0050 | 0.041 (J) | < 0.0050 | 0.0032 (J) | NA | < 0.010 | 1.37 | 0.0017 (J) | 0.000078 (J) |
| PZ-14 | 8/21/2019 | 0.00039 (J) | < 0.0050 | 0.017 | < 0.0030 | < 0.0025 | 0.00073 (J) | < 0.0050 | < 0.30 | 0.000064 (J) | < 0.030 | < 0.00050 | < 0.010 | 0.705 U | < 0.010 | < 0.0010 |
| PZ-14 | 10/2/2019 | < 0.0030 | 0.00083 (J) | 0.017 | NA | NA | < 0.010 | < 0.0050 | 0.056 (J) | < 0.0050 | < 0.030 | NA | < 0.010 | 0.915 U | 0.0015 (J) | < 0.0010 |
| PZ-15 | 8/21/2019 | < 0.0030 | < 0.0050 | 0.050 | < 0.0030 | < 0.0025 | 0.00048 (J) | < 0.0050 | 0.044 (J) | < 0.0050 | 0.0013 (J) | < 0.00050 | < 0.010 | 1.86 | < 0.010 | 0.00022 (J) |
| PZ-15 | 10/2/2019 | < 0.0030 | < 0.0050 | 0.049 | NA | NA | < 0.010 | < 0.0050 | 0.075 (J) | < 0.0050 | 0.0013 (J) | NA | < 0.010 | 1.00 U | < 0.010 | 0.00016 (J) |
| PZ-16 | 8/21/2019 | < 0.0030 | 0.00036 (J) | 0.034 | < 0.0030 | < 0.0025 | 0.00095 (J) | < 0.0050 | < 0.30 | < 0.0050 | < 0.030 | < 0.00050 | < 0.010 | 0.453 U | < 0.010 | 0.000057 (J) |
| PZ-16 | 10/2/2019 | < 0.0030 | < 0.0050 | 0.038 | NA | NA | 0.00044 (J) | < 0.0050 | 0.053 (J) | 0.000081 (J) | < 0.030 | NA | < 0.010 | 0.650 U | < 0.010 | 0.000053 (J) |
| PZ-17 | 8/22/2019 | < 0.0030 | < 0.0050 | 0.078 | < 0.0030 | < 0.0025 | < 0.010 | < 0.0050 | 0.11 (J) | < 0.0050 | 0.0025 (J) | < 0.00050 | < 0.010 | 0.977 U | < 0.010 | 0.00018 (J) |
| PZ-17 | 10/2/2019 | < 0.0030 | < 0.0050 | 0.074 | NA | NA | < 0.010 | < 0.0050 | 0.063 (J) | < 0.0050 | 0.0024 (J) | NA | < 0.010 | 1.34 U | < 0.010 | 0.00016 (J) |
| PZ-18 | 8/22/2019 | 0.00045 (J) | < 0.0050 | 0.022 | < 0.0030 | < 0.0025 | 0.00081 (J) | < 0.0050 | < 0.30 | < 0.0050 | 0.0026 (J) | < 0.00050 | < 0.010 | 0.753 U | < 0.010 | 0.000070 (J) |
| PZ-18 | 10/3/2019 | < 0.0030 | < 0.0050 | 0.025 | NA | NA | < 0.010 | < 0.0050 | 0.043 (J) | < 0.0050 | 0.0027 (J) | NA | < 0.010 | 2.07 | < 0.010 | < 0.0010 |
| PZ-19 | 8/22/2019 | < 0.0030 | < 0.0050 | 0.047 | < 0.0030 | < 0.0025 | < 0.010 | < 0.0050 | 0.10 (J) | < 0.0050 | 0.012 (J) | < 0.00050 | 0.0021 (J) | 1.37 | < 0.010 | 0.00055 (J) |
| PZ-19 | 10/3/2019 | 0.00044 (J) | < 0.0050 | 0.057 | NA | NA | < 0.010 | < 0.0050 | 0.084 (J) | < 0.0050 | 0.016 (J) | NA | 0.0024 (J) | 1.90 | 0.0034 (J) | 0.00071 (J) |
| PZ-23 | 8/21/2019 | 0.00055 (J) | < 0.0050 | 0.032 | < 0.0030 | < 0.0025 | 0.0024 (J) | < 0.0050 | < 0.30 | < 0.0050 | 0.00090 (J) | < 0.00050 | < 0.010 | 2.31 | 0.0022 (J) | 0.00016 (J) |
| PZ-23 | 9/10/2019 | < 0.0030 | 0.00036 (J) | 0.029 | NA | NA | 0.0044 (J) | < 0.0050 | < 0.30 | < 0.0050 | < 0.030 | NA | < 0.010 | 0.575 U | 0.0018 (J) | < 0.0010 |
| PZ-25 | 8/21/2019 | 0.0014 (J) | < 0.0050 | 0.10 | < 0.0030 | < 0.0025 | < 0.010 | 0.0015 (J) | 0.11 (J) | 0.00041 (J) | 0.0072 (J) | < 0.00050 | 0.0014 (J) | 1.18 U | < 0.010 | 0.00046 (J) |
| PZ-25 | 10/2/2019 | < 0.0030 | 0.00063 (J) | 0.11 | NA | NA | < 0.010 | 0.0017 (J) | 0.16 (J) | < 0.0050 | 0.0074 (J) | NA | < 0.010 | 1.48 | < 0.010 | 0.00024 (J) |
| PZ-31 | 8/21/2019 | 0.00056 (J) | < 0.0050 | 0.0070 (J) | < 0.0030 | < 0.0025 | 0.0016 (J) | < 0.0050 | < 0.30 | 0.00011 (J) | < 0.030 | < 0.00050 | < 0.010 | 1.20 U | < 0.010 | 0.000061 (J) |
| PZ-31 | 10/2/2019 | < 0.0030 | < 0.0050 | 0.0067 (J) | NA | NA | 0.00043 (J) | < 0.0050 | 0.057 (J) | 0.000081 (J) | < 0.030 | NA | < 0.010 | 0.0883 U | < 0.010 | < 0.0010 |
| PZ-32 | 8/20/2019 | < 0.0030 | < 0.0050 | 0.016 | < 0.0030 | < 0.0025 | 0.00044 (J) | < 0.0050 | < 0.30 | < 0.0050 | < 0.030 | < 0.00050 | < 0.010 | 0.334 U | < 0.010 | < 0.0010 |
| PZ-32 | 10/1/2019 | < 0.0030 | < 0.0050 | 0.015 | NA | NA | < 0.010 | < 0.0050 | 0.042 (J) | < 0.0050 | < 0.030 | NA | < 0.010 | 1.01 U | < 0.010 | < 0.0010 |
| PZ-33 | 8/22/2019 | < 0.0030 | < 0.0050 | 0.064 | < 0.0030 | < 0.0025 | < 0.010 | < 0.0050 | < 0.30 | < 0.0050 | < 0.030 | < 0.00050 | < 0.010 | 0.513 U | < 0.010 | 0.00017 (J) |
| PZ-33 | 10/3/2019 | < 0.0030 | < 0.0050 | 0.057 | NA | NA | < 0.010 | < 0.0050 | 0.060 (J) | 0.000047 (J) | < 0.030 | NA | < 0.010 | 1.62 U | < 0.010 | 0.00018 (J) |
| Dup-01 PZ-19 | 8/22/2019 | < 0.0030 | < 0.0050 | 0.049 | < 0.0030 | < 0.0025 | < 0.010 | < 0.0050 | 0.079 (J) | < 0.0050 | 0.012 (J) | < 0.00050 | 0.0022 (J) | 1.55 | < 0.010 | 0.00058 (J) |
| Dup-02 PZ-33 | 8/22/2019 | < 0.0030 | < 0.0050 | 0.062 | < 0.0030 | < 0.0025 | < 0.010 | < 0.0050 | < 0.30 | < 0.0050 | < 0.030 | < 0.00050 | < 0.010 | 0.907 U | < 0.010 | 0.00017 (J) |
| Dup-01 PZ-17 | 10/2/2019 | < 0.0030 | < 0.0050 | 0.083 | NA | NA | < 0.010 | < 0.0050 | 0.063 (J) | < 0.0050 | 0.0026 (J) | NA | < 0.010 | 1.17 U | < 0.010 | 0.00017 (J) |
| Dup-02 PZ-25 | 10/2/2019 | < 0.0030 | 0.00045 (J) | 0.12 | NA | NA | < 0.010 | 0.0017 (J) | 0.17 (J) | < 0.0050 | 0.0078 (J) | NA | < 0.010 | 0.977 U | < 0.010 | 0.00024 (J) |

Notes:

- (J) indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by (J) is qualified by the laboratory as estimated.
- < indicates the constituent was not detected above the analytical method detection limit (MDL).
- U indicates the constituent was not detected above the analytical Minimum Detection Concentration (MDC), specific to combined radium results. The value followed by U is qualified by the laboratory as estimated.
- Results for metals are reported in milligrams per liter (mg/L). Results for radium are reported in pci/L (picocuries per liter)
- NA indicates not analyzed.

**TABLE 6
RPD CALCULATIONS**

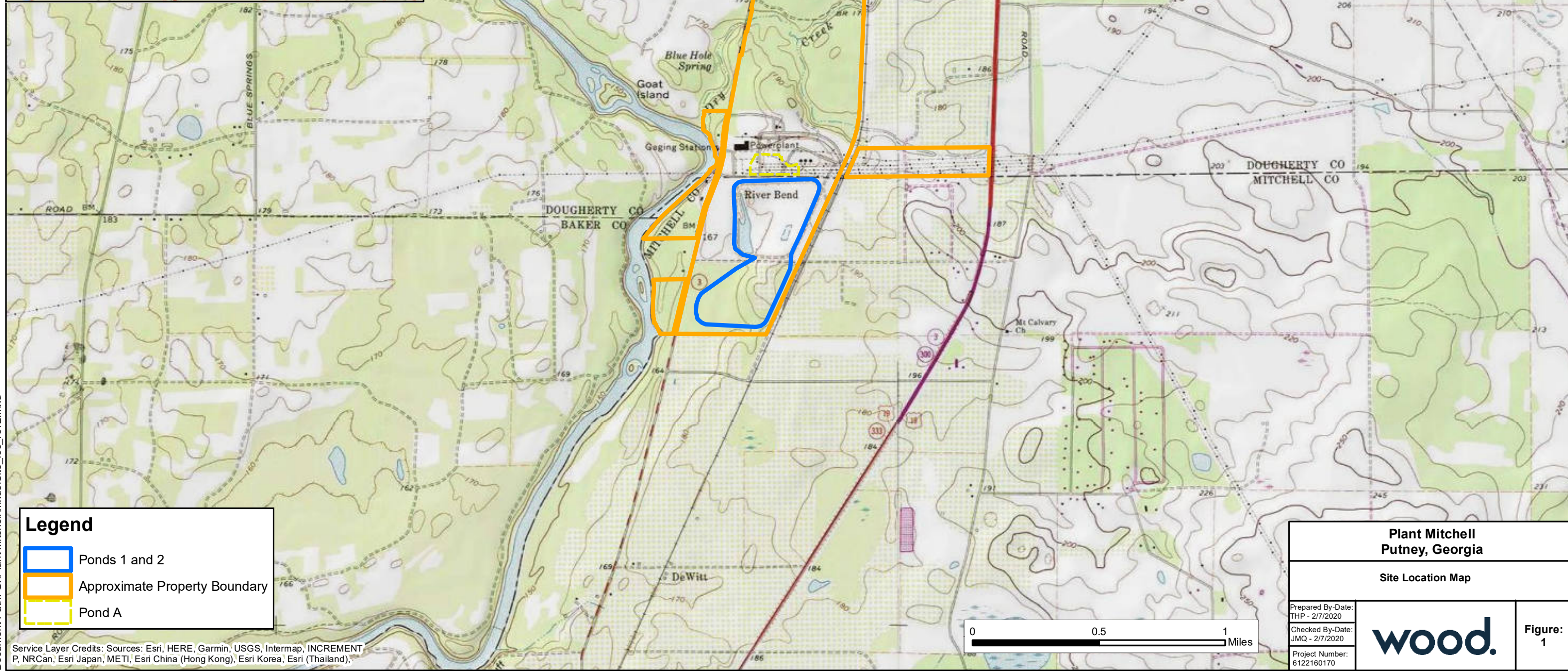
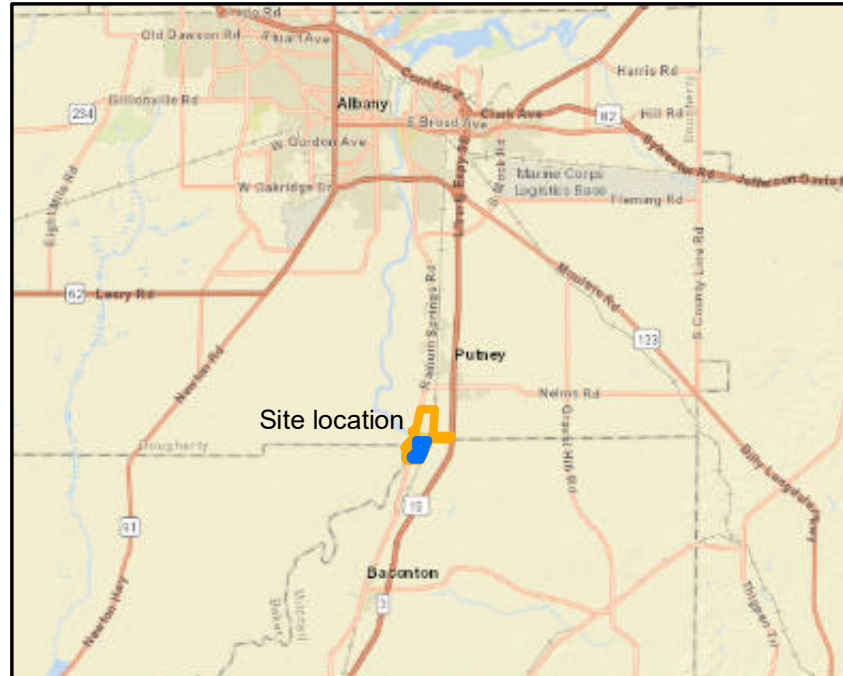
| Parameter | Concentration 1 | Concentration 2 | RPD |
|------------------|------------------------|------------------------|------------|
| 8/22/2019 | Dup-01 | PZ-19 | |
| Barium | 0.049 | 0.047 | 4% |
| Radium | 1.55 | 1.37 | 12% |
| Parameter | Concentration 1 | Concentration 2 | RPD |
| 8/22/2019 | Dup-02 | PZ-33 | |
| Barium | 0.062 | 0.064 | 3% |
| Parameter | Concentration 1 | Concentration 2 | RPD |
| 10/2/2019 | Dup-01 | PZ-17 | |
| Barium | 0.083 | 0.074 | 11% |
| Boron | 0.30 | 0.28 | 7% |
| Calcium | 125 | 115 | 8% |
| Chloride | 7.8 | 7.9 | 1% |
| Sulfate | 102 | 104 | 2% |
| TDS | 418 | 415 | 1% |
| Parameter | Concentration 1 | Concentration 2 | RPD |
| 10/2/2019 | Dup-02 | PZ-25 | |
| Barium | 0.12 | 0.11 | 9% |
| Boron | 0.21 | 0.21 | 0% |
| Calcium | 93.2 | 92.3 | 1% |
| Chloride | 2.6 | 2.6 | 0% |
| Sulfate | 42.9 | 43.0 | 0% |
| TDS | 315 | 312 | 1% |

Notes:

Metals concentrations are reported in milligrams per liter (mg/L)

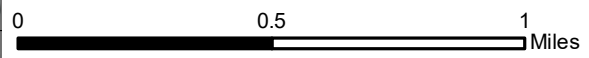
Radium concentrations are reported in pci/L (picocuries per liter)

RPD is relative percent difference

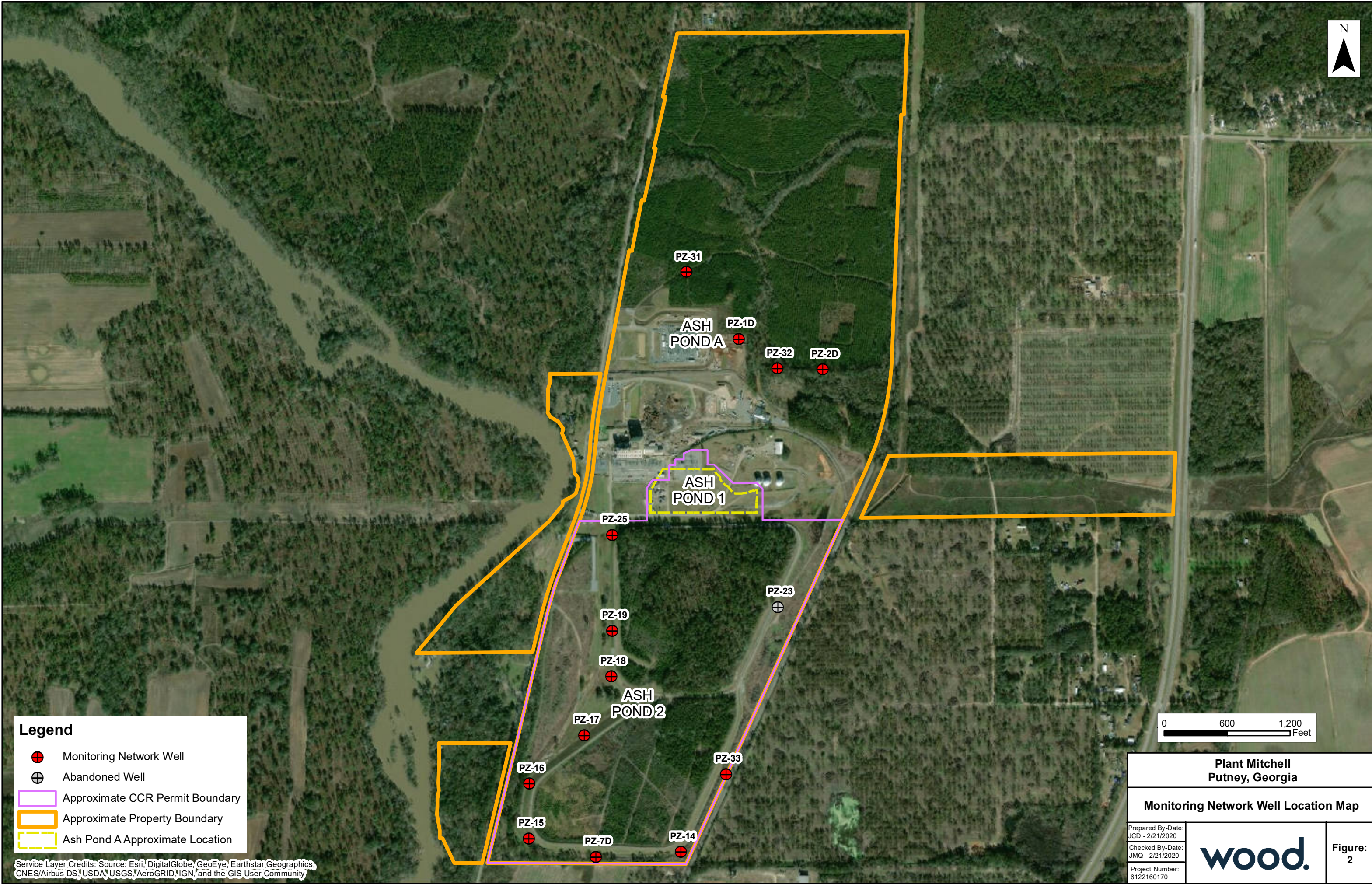


Legend






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

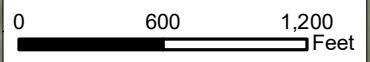



| | |
|---|--|
| Plant Mitchell Putney, Georgia | |
| Site Location Map | |
| Prepared By-Date: THP - 2/7/2020 | |
| Checked By-Date: JMQ - 2/7/2020 | |
| Project Number: 6122160170 | |
| Figure: 1 | |



Legend

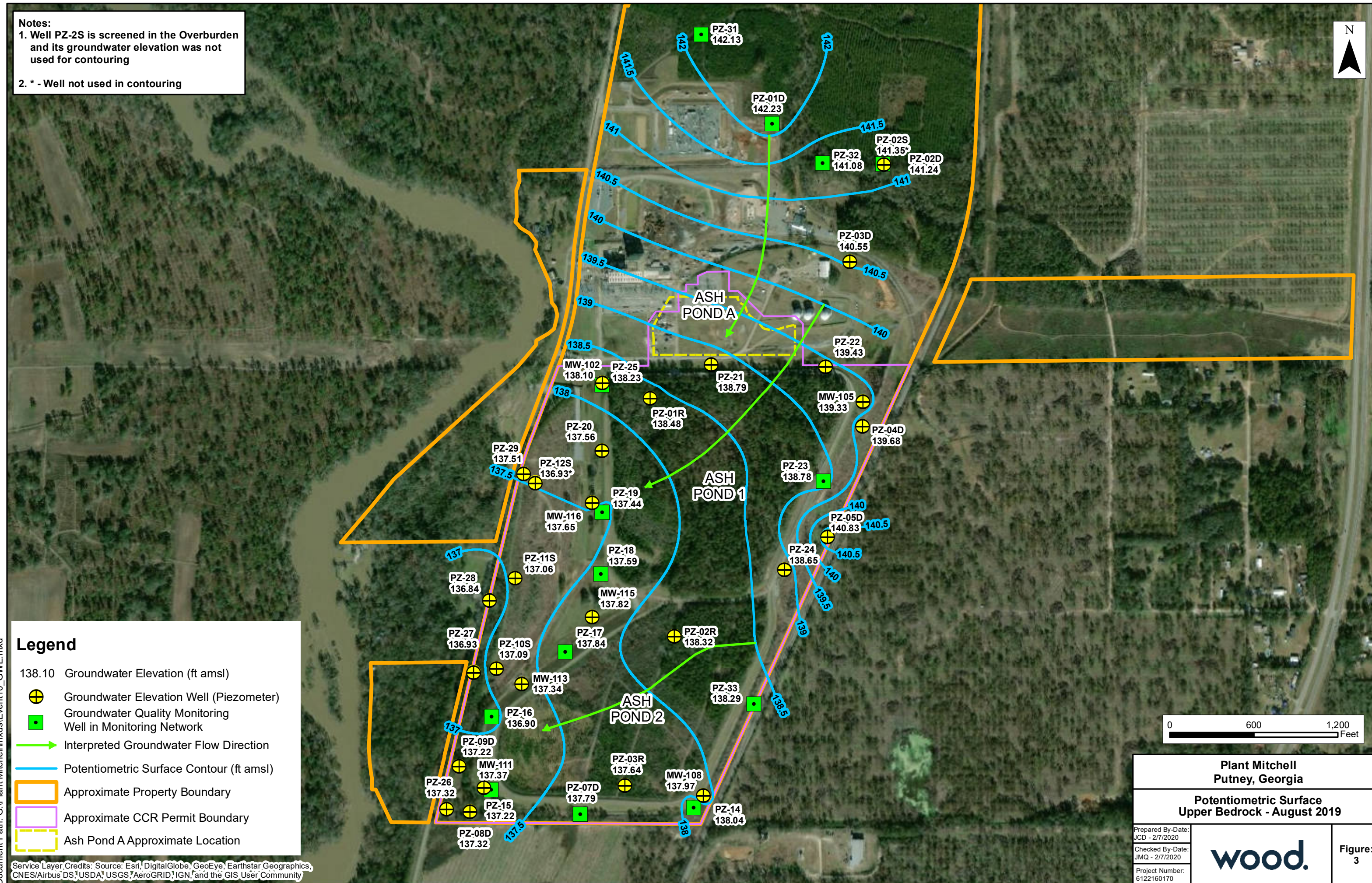
-  Monitoring Network Well
-  Abandoned Well
-  Approximate CCR Permit Boundary
-  Approximate Property Boundary
-  Ash Pond A Approximate Location



| | |
|---|---|
| Plant Mitchell Putney, Georgia | |
| Monitoring Network Well Location Map | |
| Prepared By-Date: JCD - 2/21/2020 |  |
| Checked By-Date: JMQ - 2/21/2020 | |
| Project Number: 6122160170 | |
| Figure: 2 | |

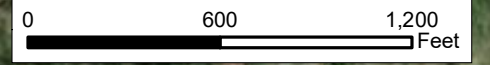
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Notes:
 1. Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring
 2. * - Well not used in contouring



Legend

- 138.10 Groundwater Elevation (ft amsl)
- ⊕ Groundwater Elevation Well (Piezometer)
- Groundwater Quality Monitoring Well in Monitoring Network
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft amsl)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Ash Pond A Approximate Location

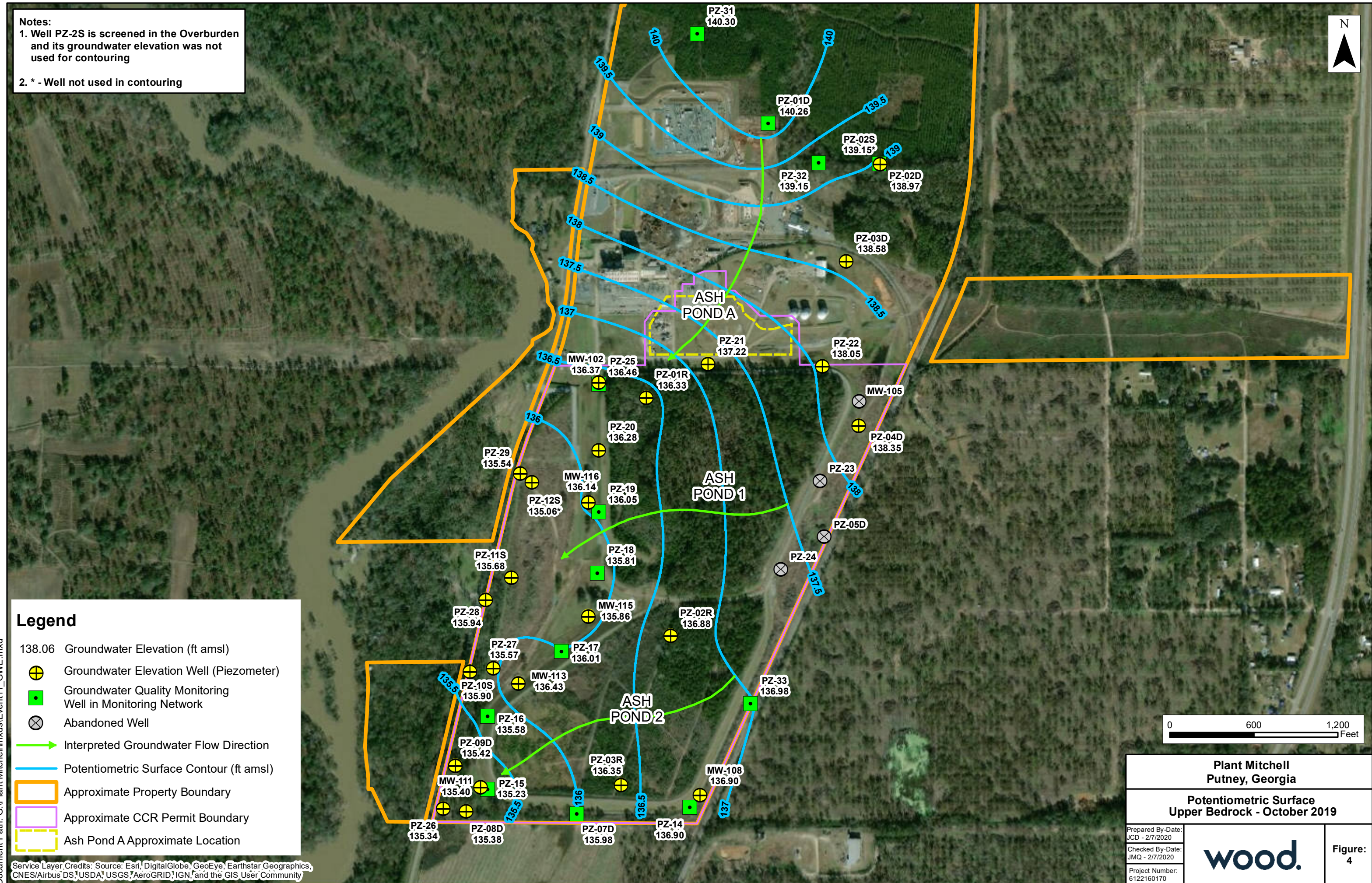


| | |
|---|--|
| Plant Mitchell Putney, Georgia | |
| Potentiometric Surface Upper Bedrock - August 2019 | |
| Prepared By-Date: JCD - 2/7/2020 | |
| Checked By-Date: JMQ - 2/7/2020 | |
| Project Number: 6122160170 | |
| Figure: 3 | |

Document Path: G:\Plant Mitchell\mxd\Event10_GWE.mxd

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

Notes:
 1. Well PZ-2S is screened in the Overburden and its groundwater elevation was not used for contouring
 2. * - Well not used in contouring



Legend

- 138.06 Groundwater Elevation (ft amsl)
- ⊕ Groundwater Elevation Well (Piezometer)
- Groundwater Quality Monitoring Well in Monitoring Network
- ⊗ Abandoned Well
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft amsl)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Ash Pond A Approximate Location

| | |
|--|--|
| Plant Mitchell Putney, Georgia | |
| Potentiometric Surface Upper Bedrock - October 2019 | |
| Prepared By-Date: JCD - 2/7/2020 | |
| Checked By-Date: JMQ - 2/7/2020 | |
| Project Number: 6122160170 | |
| Figure: 4 | |

Document Path: G:\Plant Mitchell\mxds\Event11_GWE.mxd

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

APPENDIX A

WELL ABANDONMENT REPORT



November 15, 2019

Environment & Infrastructure Solutions
1075 Big Shanty Road, Suite 100
Kennesaw, Georgia 30144
USA

Mr. Ben Hodges
Southern Company
241 Ralph McGill Blvd NE
Bin 10185
Atlanta, GA 30308

T: +1 770-421-3400

www.woodplc.com

**Subject: Phase I Well Abandonment Report at Plant Mitchell (CCR Wells)
Albany, Dougherty and Mitchell County, Georgia
Wood Project No. 6122160170.1919**

Dear Mr. Hodges:

Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this letter summarizing the abandonment of monitoring wells at Plant Mitchell in Albany, Dougherty County, Georgia (Site). The closure of the monitoring wells was conducted in preparation for Phase 1 construction activities relating to ash removal that would impact the current locations of select monitoring wells in the Coal Combustion Residuals (CCR) monitoring and gauging program.

Summary of Abandonment Activities

The following CCR wells located around the ash ponds were abandoned: MW-104, MW-105, PZ-05D, PZ-23 and PZ-24 located along the eastern perimeter of Ash Pond 1 and MW-106 and MW-109 located along the eastern and southern perimeter of Ash Pond 2. Well abandonment records are included as Attachment A and the locations are shown on the figure included as Attachment B.

A Wood representative provided oversight and documentation of the abandonment activities, which were conducted by Southern Company's Civil Field Services (CFS) personnel. Well abandonment activities were conducted from September 9 – 18, 2019. Abandonment activities were conducted in accordance with the guidance outlined in the Georgia Water Well Standards Act (O.C.G.A. §12-5-120 through 138), Georgia Geologic Survey (GGS) Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia), and the U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) guidance (SESDGUID-101-R1, Design and Installation of Monitoring Wells, dated January 29, 2013). A summary of the abandoned wells, including construction details, are provided in Table 1.

The wells were abandoned under the direction of a Georgia Professional Engineer. The depth to groundwater and total depth of each well were measured prior to its abandonment. Each of the 7 wells were abandoned by overdrilling, although MW-105 had a 6-inch outer casing that extended to a depth of approximately 18 feet could not be removed and was cut off approximately 18 inches below ground surface and grouted in place.

Following overdrilling, the boreholes were backfilled with five to 10 percent bentonite cement grout placed into the borehole from the bottom to the top by pressure grouting via positive displacement.

Mr. Ben Hodges
Well Abandonment at Plant Mitchell
Albany, Dougherty and Mitchell County, Georgia



Grout emplacement continued until undiluted grout was visible at the surface. The grout was allowed to settle and cure for a minimum of four hours to monitor for grout settlement and the need to add additional grout prior to restoring the surface. The protective well covers and pads were demolished, and surface restoration of the abandoned locations were completed similar to the surrounding conditions.

Thank you for the opportunity to be of service on this project. Please call us with any questions regarding the information presented herein.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.

A handwritten signature in blue ink, reading 'Tanya Kinnard'.

Tanya Kinnard, CHMM
Senior Professional

A handwritten signature in blue ink, reading 'Gregory J. Wrenn'.

Gregory J. Wrenn, PE
Project Manager

Attachments:

- Table 1 – Monitoring Well Construction and Abandonment - September 2019
- Attachment A – Well Abandonment Records
- Attachment B – CCR Well Location Map

cc: Joju Abraham, Southern Company Services

Table 1 - Well Construction Table

GPC - Plant Mitchell (Project No. 6122-16-0170)
Phase I Well Abandonment

| Well ID | Date of Construction | Latitude* | Longitude* | Water-Bearing Zone Monitoring Interval | Well Type | Well Diameter (inches) | Boring Depth (ft bgs) | Well Depth (ft bgs) | Well Depth (ft btoc) | Field Measured Depth (ft bgs) | Field Measured Depth (ft btoc) | Well Screen Length (ft) | Stick-up Height (ft ags) | Depth to Water (ft btoc) | Date Decommissioned | Decommission Method | Grout Volume Used (gallons) | |
|-----------|----------------------|-----------|------------|--|-----------|------------------------|-----------------------|---------------------|----------------------|-------------------------------|--------------------------------|-------------------------|--------------------------|--------------------------|---------------------|---------------------|-----------------------------|-----|
| CCR Wells | PZ-5D (05D) | 5/30/2014 | 31.4391380 | -84.1308150 | Deep | Type II | 2.0 | 58 | 57.6 | 60.9 | 57.60 | 60.70 | 10 | 3.32 | DRY | 9/11/2019 | Overdrill | 121 |
| | PZ-23 | 7/27/2016 | 31.4402368 | -84.1309165 | Deep | Type II | 2.0 | 60 | 60 | 63.1 | 60.50 | 63.50 | 10 | 3.12 | 52.49 | 9/11/2019 | Overdrill | 99 |
| | PZ-24 | 7/26/2016 | 31.4385015 | -84.1318094 | Deep | Type II | 2.0 | 70 | 70 | 73.1 | 70.00 | 73.00 | 10 | 3.10 | 57.30 | 9/10/2019 | Overdrill | 100 |
| | MW-104 | 2/28/1995 | 31.4418320 | -84.1299930 | Shallow | Type II | 2.0 | 18 | 17.6 | 20.2 | 17.50 | 20.50 | 10 | 2.58 | 12.53 | 9/11/2019 | Overdrill | 22 |
| | MW-105 | 2/23/1995 | 31.4417960 | -84.1300110 | Deep | Type III | 2.0 | 75 | 74.6 | 77.3 | 75.30 | 78.30 | 10 | 2.75 | 49.10 | 9/11/2019 | Grout in-place | 44 |
| | MW-106 | 2/15/1995 | 31.4379010 | -84.1319660 | Shallow | Type II | 2.0 | 40.5 | 39.6 | 42.3 | 40.00 | 43.30 | 10 | 2.69 | 22.98 | 9/10/2019 | Overdrill | 44 |
| | MW-109 | 2/16/1995 | 31.4337420 | -84.1356980 | Shallow | Type II | 2.0 | 28.5 | 28.2 | 31.5 | 29.00 | 32.00 | 10 | 3.34 | 17.04 | 9/10/2019 | Overdrill | 28 |

Notes:

ft Feet

bgs Below ground surface

btoc Below top of casing

ags Above ground surface

Prepare by: A.S. 10/9/2019

Checked by: T.K. 10/22/2019

* Horizontal locations referenced to the North American Datum of 1983

AP-A Ash Pond A ('North' location near MW-119; 'South' location near MW-120)

NA Not applicable or not available

ATTACHMENT A
WELL ABANDONMENT RECORDS

MONITORING WELL ABANDONMENT RECORD



WELL NO.: MW-104
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-11-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 20.50 ft btoc total well depth 17.50 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (10.50 to 20.50 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 12.53 / ~~20.05~~ 9-11-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 22 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name Tim Milam

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-11-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: MW-105
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-11-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 78.30 ft btoc total well depth 75.3 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (65.3 to 75.3 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 49.10 / 9-11-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 44 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name TIM MILAM

Additional Notes - WELL HAS 6" OUTER CASING DOWN TO 18' - COULD NOT REMOVE OUTER CASING - GROUTED WELL IN PLACE FROM BOTTOM-UP. CUT CASING ± 18" BELOW GROUND SURFACE.

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-11-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: MW-106
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-10-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 43.30 ft btoc total well depth 40.0 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (30 to 40 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 22.98 / 9-10-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 44 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name TIM MILAM

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-10-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: MW-109
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-10-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 32.00 ft btoc total well depth 29.0 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (19 to 29 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 17.04 / 9-9-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 28 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name Tim Micam

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-10-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: PZ 5D
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-11-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 60.70 ft btoc total well depth 57.60 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (47.60 to 57.60 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) DRY / 9-11-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 121 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name TIM MILAM

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-11-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: PZ 23
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-10-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 63.50 ft btoc total well depth 60.50 ft bgs total boring depth

Well Diameter 2⁰ inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (50.50 to 60.50 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 52.49' / 9-10-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 99 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name Tim Milam

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-11-19

MONITORING WELL ABANDONMENT RECORD



WELL NO.: PZ 24
PROJECT NAME: GPC - Plant Mitchell
PROJECT NO.: 6121-17-0611
DATE: 9-10-19

Name of Property Owner GPC - Plant Mitchell

Address of Property 5200 Radium Springs Road, Albany, GA 31075

Original Purpose of Well Installation ground-water quality monitoring

Total Depth of Well
(Measured from Top of Riser) 73.0 ft btoc total well depth 70.0 ft bgs total boring depth

Well Diameter 2 inches

Screen Slot Size 0.010 - inch

Length of Screen 10 ft (60.0 to 70.0 ft bgs)

Depth to Water/Date
(Measured from Top of Riser) 57.30 / 9-10-19

Description of Well Abandonment Method Overdrilling and grouting

Type and Volume of Materials Used to Plug Well/Borehole 100 Gallons of AquaGuard Bentonite Grout

Riser and Screen Removed or Left in Place removed

Drilling Contractor GPC Drilling Driller's Name TIM MILAM

Additional Notes -

Wood Environment & Infrastructure Solutions Field Representative Ever Guillen

Date Well Abandonment Completed 9-10-19

ATTACHMENT B

CCR WELL LOCATION MAP

APPENDIX B

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

| Well ID | Sample Date | Purge Volume (liter) | Time Elapsed | DTW (feet, TOC) | Drawdown (feet) | Temperature (C) | pH (su) | Specific Conductance (uS/cm) | Turbidity (NTU) | DO (mg/L) | ORP (mV) |
|---------|-------------|----------------------|--------------|-----------------|-----------------|-----------------|---------|------------------------------|-----------------|-----------|----------|
| PZ-1D | 8/20/2019 | 11.0 | 3346 | 53.92 | 0 | 22.9 | 7.9 | 240.0 | 1.6 | 4.0 | 76.1 |
| PZ-2D | 8/21/2019 | 12.0 | 1500 | 37.15 | 0 | 21.5 | 8.8 | 147.8 | 2.9 | 3.0 | 125.2 |
| PZ-7D | 8/22/2019 | 7.0 | 2100 | 35.34 | 0 | 21.8 | 7.3 | 552.5 | 1.0 | 0.3 | 53.4 |
| PZ-14 | 8/21/2019 | 10.0 | 3050 | 45.58 | 0 | 22.8 | 7.3 | 489.0 | 0.7 | 3.6 | 75.3 |
| PZ-15 | 8/21/2019 | 7.0 | 2100 | 32.88 | 0 | 26.0 | 7.5 | 509.9 | 1.6 | 0.2 | -41.2 |
| PZ-16 | 8/21/2019 | 6.0 | 1800 | 36.81 | 0.01 | 23.5 | 7.2 | 480.6 | 0.5 | 1.3 | 170.3 |
| PZ-17 | 8/22/2019 | 9.0 | 2701 | 34.82 | 0 | 23.0 | 7.2 | 592.2 | 1.8 | 0.1 | -42.5 |
| PZ-18 | 8/22/2019 | 9.0 | 2702 | 32.19 | 0 | 26.6 | 7.0 | 623.3 | 1.1 | 0.2 | 13.7 |
| PZ-19 | 8/22/2019 | 6.0 | 1800 | 34.52 | 0.01 | 24.0 | 6.7 | 848.2 | 1.1 | 0.4 | 58.4 |
| PZ-23 | 8/21/2019 | 5.0 | 1500 | 52.84 | 0 | 23.1 | 7.1 | 669.4 | 0.6 | 4.4 | 84.3 |
| PZ-25 | 8/21/2019 | 6.0 | 1800 | 32.89 | 0.04 | 22.9 | 7.1 | 500.0 | 0.3 | 0.4 | -125.2 |
| PZ-31 | 8/21/2019 | 5.0 | 1500 | 40.73 | 0 | 21.2 | 7.4 | 428.3 | 0.8 | 4.8 | 77.5 |
| PZ-32 | 8/20/2019 | 7.0 | 2100 | 39.64 | 0 | 20.7 | 7.4 | 339.1 | 1.1 | 0.8 | 106.3 |
| PZ-33 | 8/22/2019 | 6.0 | 1800 | 51.23 | 0 | 22.6 | 6.9 | 661.9 | 1.8 | 0.5 | 61.2 |

December 18, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622265

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/3/2019. The report has been revised to correct Metals RLs to correspond with contract. No other changes have been made to this report.

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

Sincerely,



Tyler Forney for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2622265

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622265

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622265001 | EB-1 | Water | 08/21/19 08:30 | 08/22/19 09:10 |
| 2622265002 | PZ-2D | Water | 08/21/19 10:52 | 08/22/19 09:10 |
| 2622265003 | PZ-16 | Water | 08/21/19 13:16 | 08/22/19 09:10 |
| 2622265004 | PZ-25 | Water | 08/21/19 14:42 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell
Pace Project No.: 2622265

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2622265001 | EB-1 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622265002 | PZ-2D | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622265003 | PZ-16 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622265004 | PZ-25 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622265

| Sample: EB-1 | | Lab ID: 2622265001 | | Collected: 08/21/19 08:30 | | Received: 08/22/19 09:10 | | Matrix: Water | | |
|--------------------------------|------------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-36-0 | | |
| Arsenic | 0.00064J | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-48-4 | | |
| Lead | 0.000058J | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:17 | 08/26/19 19:24 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:39 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/29/19 22:55 | 16984-48-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622265

| Sample: PZ-2D | | Lab ID: 2622265002 | | Collected: 08/21/19 10:52 | | Received: 08/22/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00030J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-36-0 | |
| Arsenic | 0.0014J | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-38-2 | |
| Barium | 0.0042J | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-43-9 | |
| Chromium | 0.0057J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7439-92-1 | |
| Lithium | 0.0018J | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:17 | 08/26/19 19:30 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:42 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | 0.046J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 00:03 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622265

| Sample: PZ-16 | | Lab ID: 2622265003 | | Collected: 08/21/19 13:16 | | Received: 08/22/19 09:10 | | Matrix: Water | | |
|--------------------------------|------------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-36-0 | | |
| Arsenic | 0.00036J | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-38-2 | | |
| Barium | 0.034 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-43-9 | | |
| Chromium | 0.00095J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7782-49-2 | | |
| Thallium | 0.000057J | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:17 | 08/26/19 19:35 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:44 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 00:26 | 16984-48-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622265

| Sample: PZ-25 | | Lab ID: 2622265004 | | Collected: 08/21/19 14:42 | | Received: 08/22/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.0014J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-38-2 | |
| Barium | 0.10 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-47-3 | |
| Cobalt | 0.0015J | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-48-4 | |
| Lead | 0.00041J | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7439-92-1 | |
| Lithium | 0.0072J | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7782-49-2 | |
| Thallium | 0.00046J | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 19:22 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:46 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | 0.11J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 00:48 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622265

QC Batch: 34233 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622265001, 2622265002, 2622265003, 2622265004

METHOD BLANK: 154036 Matrix: Water
Associated Lab Samples: 2622265001, 2622265002, 2622265003, 2622265004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 08/27/19 12:05 | |

LABORATORY CONTROL SAMPLE: 154037

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154038 154039

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
| | | 2622267002 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0025 | 0.0026 | 101 | 102 | 75-125 | 1 | 20 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622265

QC Batch: 34176 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622265001, 2622265002, 2622265003

METHOD BLANK: 153777 Matrix: Water
Associated Lab Samples: 2622265001, 2622265002, 2622265003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 08/26/19 16:54 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/26/19 16:54 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/26/19 16:54 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/26/19 16:54 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/26/19 16:54 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 08/26/19 16:54 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/26/19 16:54 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/26/19 16:54 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/26/19 16:54 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/26/19 16:54 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/26/19 16:54 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/26/19 16:54 | |

LABORATORY CONTROL SAMPLE: 153778

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153779 153780

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2622250005 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 101 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | 0.00059J | 0.1 | 0.1 | 0.098 | 0.098 | 97 | 98 | 75-125 | 1 | 20 | |
| Barium | mg/L | 0.020 | 0.1 | 0.1 | 0.12 | 0.12 | 95 | 96 | 75-125 | 1 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 96 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 100 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622265

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153779 | | 153780 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2622250005 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | 0.00051J | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.0010J | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 99 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.097 | 96 | 97 | 75-125 | 0 | 20 | | |
| Lithium | mg/L | 0.00094J | 0.1 | 0.1 | 0.096 | 0.096 | 95 | 95 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | 0.0030J | 0.1 | 0.1 | 0.098 | 0.10 | 95 | 97 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.097 | 96 | 97 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622265

QC Batch: 34179 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622265004

METHOD BLANK: 153793 Matrix: Water
Associated Lab Samples: 2622265004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.00075J | 0.0030 | 0.00027 | 08/26/19 19:11 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/26/19 19:11 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/26/19 19:11 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/26/19 19:11 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/26/19 19:11 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 08/26/19 19:11 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/26/19 19:11 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/26/19 19:11 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/26/19 19:11 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/26/19 19:11 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/26/19 19:11 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/26/19 19:11 | |

LABORATORY CONTROL SAMPLE: 153794

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.092 | 92 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.081 | 81 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lead | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.091 | 91 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 153796

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|------------|-----------|------------|----------|-----------|--------------|---------|------|
| | | 2622267002 | Spike Conc. | Spike Conc. | MSD Result | | | | | | | |
| Antimony | mg/L | 0.00039J | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 2 | 20 | |
| Barium | mg/L | 0.017 | 0.1 | 0.1 | 0.13 | 0.12 | 108 | 101 | 75-125 | 5 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622265

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 | | 153796 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2622267002 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | 0.00073J | 0.1 | 0.1 | 0.10 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 0 | 20 | | |
| Lead | mg/L | 0.000064J | 0.1 | 0.1 | 0.095 | 0.097 | 94 | 97 | 75-125 | 3 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 101 | 97 | 75-125 | 5 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 102 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 98 | 75-125 | 3 | 20 | | |

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622265

QC Batch: 34532 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622265001, 2622265002, 2622265003, 2622265004

METHOD BLANK: 155480 Matrix: Water
Associated Lab Samples: 2622265001, 2622265002, 2622265003, 2622265004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.30 | 0.029 | 08/29/19 22:10 | |

LABORATORY CONTROL SAMPLE: 155481

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 10 | 9.4 | 94 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155482 155483

| Parameter | Units | 2622265001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Fluoride | mg/L | ND | 10 | 10 | 9.3 | 9.2 | 93 | 92 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 155490

| Parameter | Units | 2622267002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Fluoride | mg/L | ND | 10 | 8.5 | 85 | 90-110 | M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622265

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2622265

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2622265001 | EB-1 | EPA 3005A | 34176 | EPA 6020B | 34193 |
| 2622265002 | PZ-2D | EPA 3005A | 34176 | EPA 6020B | 34193 |
| 2622265003 | PZ-16 | EPA 3005A | 34176 | EPA 6020B | 34193 |
| 2622265004 | PZ-25 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622265001 | EB-1 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622265002 | PZ-2D | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622265003 | PZ-16 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622265004 | PZ-25 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622265001 | EB-1 | EPA 300.0 | 34532 | | |
| 2622265002 | PZ-2D | EPA 300.0 | 34532 | | |
| 2622265003 | PZ-16 | EPA 300.0 | 34532 | | |
| 2622265004 | PZ-25 | EPA 300.0 | 34532 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GAPower

Project # _____

WO#: **2622265**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193945440

PM: BM Due Date: 08/29/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.5

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/22/19 MK

Temp should be above freezing to 8°C

Comments:

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

December 18, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622267

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/4/2019. The report has been revised to correct Metals RLs to correspond with contract. No other changes have been made to this report.

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

Sincerely,



Tyler Forney for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2622267

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622267

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622267001 | PZ-31 | Water | 08/21/19 09:45 | 08/22/19 09:10 |
| 2622267002 | PZ-14 | Water | 08/21/19 11:40 | 08/22/19 09:10 |
| 2622267003 | PZ-23 | Water | 08/21/19 12:45 | 08/22/19 09:10 |
| 2622267004 | PZ-15 | Water | 08/21/19 14:10 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622267

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2622267001 | PZ-31 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622267002 | PZ-14 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622267003 | PZ-23 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622267004 | PZ-15 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622267

| Sample: PZ-31 | | Lab ID: 2622267001 | | Collected: 08/21/19 09:45 | | Received: 08/22/19 09:10 | | Matrix: Water | |
|--------------------------------|------------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
| | | | Limit | MDL | DF | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00056J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-38-2 | |
| Barium | 0.0070J | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-43-9 | |
| Chromium | 0.0016J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-48-4 | |
| Lead | 0.00011J | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7782-49-2 | |
| Thallium | 0.000061J | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 19:28 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:54 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 01:11 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622267

| Sample: PZ-14 | | Lab ID: 2622267002 | | Collected: 08/21/19 11:40 | | Received: 08/22/19 09:10 | | Matrix: Water | | |
|--------------------------------|------------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | 0.00039J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-36-0 | B | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-38-2 | | |
| Barium | 0.017 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-43-9 | | |
| Chromium | 0.00073J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-48-4 | | |
| Lead | 0.000064J | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 19:33 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:10 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 01:33 | 16984-48-8 | M1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622267

| Sample: PZ-23 | | Lab ID: 2622267003 | | Collected: 08/21/19 12:45 | | Received: 08/22/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00055J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-38-2 | |
| Barium | 0.032 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-43-9 | |
| Chromium | 0.0024J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/28/19 15:15 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/28/19 15:15 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7439-92-1 | |
| Lithium | 0.00090J | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7439-98-7 | |
| Selenium | 0.0022J | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7782-49-2 | |
| Thallium | 0.00016J | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 19:56 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:56 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 01:56 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622267

| Sample: PZ-15 | | Lab ID: 2622267004 | | Collected: 08/21/19 14:10 | | Received: 08/22/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-38-2 | |
| Barium | 0.050 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-43-9 | |
| Chromium | 0.00048J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/28/19 15:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/28/19 15:20 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7439-92-1 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7782-49-2 | |
| Thallium | 0.00022J | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 20:02 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 12:58 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | 0.044J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 02:19 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622267

QC Batch: 34233 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

METHOD BLANK: 154036 Matrix: Water
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 08/27/19 12:05 | |

LABORATORY CONTROL SAMPLE: 154037

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154038 154039

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2622267002 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0025 | 0.0026 | 101 | 102 | 75-125 | 1 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622267

QC Batch: 34179 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

METHOD BLANK: 153793 Matrix: Water
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.00075J | 0.0030 | 0.00027 | 08/26/19 19:11 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/26/19 19:11 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/26/19 19:11 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/26/19 19:11 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/26/19 19:11 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 08/26/19 19:11 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/26/19 19:11 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/26/19 19:11 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/26/19 19:11 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/26/19 19:11 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/26/19 19:11 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/26/19 19:11 | |

LABORATORY CONTROL SAMPLE: 153794

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.092 | 92 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.081 | 81 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lead | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.091 | 91 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 153796

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|------------|-----------|------------|----------|-----------|--------------|---------|------|
| | | 2622267002 | Spike Conc. | Spike Conc. | MSD Result | | | | | | | |
| Antimony | mg/L | 0.00039J | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 2 | 20 | |
| Barium | mg/L | 0.017 | 0.1 | 0.1 | 0.13 | 0.12 | 108 | 101 | 75-125 | 5 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622267

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 | | 153796 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2622267002 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | 0.00073J | 0.1 | 0.1 | 0.10 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 0 | 20 | | |
| Lead | mg/L | 0.000064J | 0.1 | 0.1 | 0.095 | 0.097 | 94 | 97 | 75-125 | 3 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 101 | 97 | 75-125 | 5 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 102 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 98 | 75-125 | 3 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622267

QC Batch: 34532 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

METHOD BLANK: 155480 Matrix: Water
Associated Lab Samples: 2622267001, 2622267002, 2622267003, 2622267004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.30 | 0.029 | 08/29/19 22:10 | |

LABORATORY CONTROL SAMPLE: 155481

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 10 | 9.4 | 94 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155482 155483

| Parameter | Units | 2622265001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Fluoride | mg/L | ND | 10 | 10 | 9.3 | 9.2 | 93 | 92 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 155490

| Parameter | Units | 2622267002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Fluoride | mg/L | ND | 10 | 8.5 | 85 | 90-110 | M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2622267

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622267

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2622267001 | PZ-31 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622267002 | PZ-14 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622267003 | PZ-23 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622267004 | PZ-15 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622267001 | PZ-31 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622267002 | PZ-14 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622267003 | PZ-23 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622267004 | PZ-15 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622267001 | PZ-31 | EPA 300.0 | 34532 | | |
| 2622267002 | PZ-14 | EPA 300.0 | 34532 | | |
| 2622267003 | PZ-23 | EPA 300.0 | 34532 | | |
| 2622267004 | PZ-15 | EPA 300.0 | 34532 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | |
|--|--|--|
| Section A | Section B | Section C |
| Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Maner Road Atlanta, GA 30339 Email: jabraham@southemco.com Phone: (404)506-7239 Requested Due Date: 8/21/19 | Required Project Information: Report To: Jiju Abraham Copy To: Wood E&I Purchase Order #: SCS10382775 Project Name: Plant Mitchell Project #: 6123160170 | Invoice Information: Attention: scsinvoices@southemco.com Company Name: Address: Paces Quote: Pace Project Manager: belys.mcdaniel@pacelabs.com Pace Profile #: 333 6.2 Regulatory Agency: State / Location: GA |
| Page: 1 Of 1 | | |

| ITEM # | MATRIX CODE (see valid codes to left) | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | # OF CONTAINERS | PRESERVATIVES | | ANALYSES TEST | Requested Analysis Filtered (Y/N) | | | | | | | | | | | |
|--------|---------------------------------------|------------|----------|-----------------------------|-----------------|---------------|------|---------------|-----------------------------------|------|---------|----------|-------|----------------------|----------|----------------|-------------------------|--|--|--|
| | | START DATE | END DATE | | | H2SO4 | HNO3 | | HCl | NaOH | Na2S2O3 | Methanol | Other | Metals (Appendix IV) | Fluoride | Radium 226/228 | Residual Chlorine (Y/N) | | | |
| 1 | PZ-31 | 8/20/19 | 8/15 | G | 4 | X | X | X | X | X | X | X | X | X | X | | | | | |
| 2 | PZ-14+QC | 8/20/19 | 8/14 | G | 6 | X | X | X | X | X | X | X | X | X | X | | | | | |
| 3 | PZ-23 | 8/20/19 | 8/14 | G | 4 | X | X | X | X | X | X | X | X | X | X | | | | | |
| 4 | PZ-15 | 8/20/19 | 8/14 | G | 4 | X | X | X | X | X | X | X | X | X | X | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |

WO#: 2622267

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|-------------------------------|------|------|---------------------------|---------|------|---|
| Daniel Howard / Wood | 8/19 | 1715 | Madalman | 8/24/19 | 0910 | Received on 8/24/19 Temp in C 4.2 Sealed ✓ Custody ✓ Cooler ✓ Samples Intact ✓ |
| | | | | | | |
| | | | | | | |
| | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER:
 DATE Signed: 8/21/19



Sample Condition Upon Receipt

Client Name: GIA power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 812193945370

WO#: **2622267**

PM: BM Due Date: 08/29/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 4.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/22/19 MR

Temp should be above freezing to 6°C

Comments:

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | initial when completed |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Lot # of added preservative |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

December 18, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622269

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 8/29/2019. The report has been revised to correct Metals RLs to correspond with contract. No other changes have been made to this report.

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

Sincerely,



Tyler Forney for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2622269

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2622269

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622269001 | PZ-32 | Water | 08/20/19 15:03 | 08/22/19 09:10 |
| 2622269002 | PZ-1D | Water | 08/20/19 16:10 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622269

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2622269001 | PZ-32 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622269002 | PZ-1D | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622269

| Sample: PZ-32 | | Lab ID: 2622269001 | | Collected: 08/20/19 15:03 | | Received: 08/22/19 09:10 | | Matrix: Water | | |
|--------------------------------|-----------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-38-2 | | |
| Barium | 0.016 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-43-9 | | |
| Chromium | 0.00044J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/28/19 15:26 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/28/19 15:26 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 20:19 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 13:01 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/29/19 07:06 | 16984-48-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622269

| Sample: PZ-1D | | Lab ID: 2622269002 | | Collected: 08/20/19 16:10 | | Received: 08/22/19 09:10 | | Matrix: Water | | |
|--------------------------------|-----------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | 0.00074J | mg/L | 0.0030 | 0.00027 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-36-0 | B | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-38-2 | | |
| Barium | 0.017 | mg/L | 0.010 | 0.00049 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-43-9 | | |
| Chromium | 0.0028J | mg/L | 0.010 | 0.00039 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-48-4 | | |
| Lead | 0.00021J | mg/L | 0.0050 | 0.000046 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/23/19 14:12 | 08/26/19 20:25 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 13:03 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/29/19 07:29 | 16984-48-8 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622269

QC Batch: 34233 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622269001, 2622269002

METHOD BLANK: 154036 Matrix: Water
Associated Lab Samples: 2622269001, 2622269002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 08/27/19 12:05 | |

LABORATORY CONTROL SAMPLE: 154037

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154038 154039

| Parameter | Units | 154038 | | 154039 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 2622267002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0025 | 0.0026 | 101 | 102 | 75-125 | 1 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622269

QC Batch: 34179 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622269001, 2622269002

METHOD BLANK: 153793 Matrix: Water
Associated Lab Samples: 2622269001, 2622269002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.00075J | 0.0030 | 0.00027 | 08/26/19 19:11 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/26/19 19:11 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/26/19 19:11 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/26/19 19:11 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/26/19 19:11 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 08/26/19 19:11 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/26/19 19:11 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/26/19 19:11 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/26/19 19:11 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/26/19 19:11 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/26/19 19:11 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/26/19 19:11 | |

LABORATORY CONTROL SAMPLE: 153794

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.092 | 92 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.081 | 81 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lead | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.091 | 91 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 153796

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2622267002 | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Antimony | mg/L | 0.00039J | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 103 | 75-125 | 5 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 2 | 20 | | |
| Barium | mg/L | 0.017 | 0.1 | 0.1 | 0.13 | 0.12 | 108 | 101 | 75-125 | 5 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622269

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153795 | | 153796 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2622267002 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | 0.00073J | 0.1 | 0.1 | 0.10 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 0 | 20 | | |
| Lead | mg/L | 0.000064J | 0.1 | 0.1 | 0.095 | 0.097 | 94 | 97 | 75-125 | 3 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 101 | 97 | 75-125 | 5 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 102 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 98 | 75-125 | 3 | 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.

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622269

QC Batch: 34413 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622269001, 2622269002

METHOD BLANK: 154817 Matrix: Water
Associated Lab Samples: 2622269001, 2622269002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.30 | 0.029 | 08/28/19 20:32 | |

LABORATORY CONTROL SAMPLE: 154818

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 10 | 9.5 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154819 154820

| Parameter | Units | 2622246001 | | 2622246002 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Fluoride | mg/L | ND | 10 | 10 | 9.9 | 9.8 | 99 | 98 | 90-110 | 1 | 15 | | |

MATRIX SPIKE SAMPLE: 154821

| Parameter | Units | 2622246002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Fluoride | mg/L | ND | 10 | 9.7 | 97 | 90-110 | |

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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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622269

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622269

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2622269001 | PZ-32 | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622269002 | PZ-1D | EPA 3005A | 34179 | EPA 6020B | 34192 |
| 2622269001 | PZ-32 | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622269002 | PZ-1D | EPA 7470A | 34233 | EPA 7470A | 34310 |
| 2622269001 | PZ-32 | EPA 300.0 | 34413 | | |
| 2622269002 | PZ-1D | EPA 300.0 | 34413 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|--|-------------------------|-------------------------------------|-------------------------|---|----------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Georgia Power - Coal Combustion Residuals | Report To: Joey Abraham | Attention: scsinvoices@southmco.com | Company Name: | Address: | Regulatory Agency: |
| Address: 2450 Manor Road | Copy To: Wood E&I | Purchase Order #: SCS10382775 | Pace Quote: | Pace Project Manager: betsy.mcdaniel@pacelabs.com | State / Location: GA |
| Atlanta, GA 30339 | | Project Name: Plant Mitchell | Pace Profile #: 333.6.2 | | |
| Email: jabraham@southmco.com | Fax: | Project #: 6122160170 | | | |
| Phone: (404)506-7239 | | | | | |
| Requested Due Date: 3/26/19 | | | | | |

Page: 1 Of 1

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | MATRIX CODE (see valid codes to left) | # OF CONTAINERS | PRESERVATIVES | | | | | | ANALYSES TEST Y/N | REQUESTED ANALYSIS FILTERED (Y/N) | | | | | | | | | | | | | | | | | | | |
|--------|---------------------|------|------------|----------|-----------------------------|---------------------------------------|-----------------|---------------|-------------|------|-----|------|---------|-------------------|-----------------------------------|-------|----------------------|----------|----------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | START DATE | END TIME | | | | H2SO4 | UNPRESERVED | HNO3 | HCl | NaOH | Na2S2O3 | | Methanol | Other | Metals (Appendix IV) | Fluoride | Radium 226/228 | Residual Chlorine | | | | | | | | | | | | | | |
| 1 | Drinking Water | DW | 8/20/19 | 1503 | G | W/G | 4 | X | | | | | | | X | X | | | | | | | | | | | | | | | | | | |
| 2 | Waste Water | WW | 8/20/19 | 1610 | G | W/G | 4 | X | | | | | | | X | X | | | | | | | | | | | | | | | | | | |
| 3 | Water | WT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Waste Water Product | WWP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Soil/Sediment | SL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Oil | OL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Wipe | WP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Air | AR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Other | OT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Tissue | TS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

W0#: 2622269

2622269

| REQUISITIONED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | RECEIVED ON | TEMP IN C | Ice (Y/N) | Custody (Y/N) | Sealed (Y/N) | Samples (Y/N) |
|--------------------------------|---------|------|---------------------------|---------|------|-------------|-----------|-----------|---------------|--------------|---------------|
| Daniel Howard/Wood | 8/21/19 | 1715 | M. Q. Mann | 8/22/19 | 0910 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/21/19



Sample Condition Upon Receipt

Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193945430

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

WO#: **2622269**

PM: **BM** Due Date: **08/29/19**

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/22/19

| | | Comments: |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

January 10, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622335

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/3/2019. The report has been revised to correct Metals RLs to correspond with contract. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2622335

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2622335

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622335001 | FB-01 | Water | 08/22/19 08:15 | 08/23/19 09:10 |
| 2622335002 | PZ-33 | Water | 08/22/19 10:04 | 08/23/19 09:10 |
| 2622335003 | Dup-02 | Water | 08/22/19 00:00 | 08/23/19 09:10 |
| 2622335004 | PZ-19 | Water | 08/22/19 12:32 | 08/23/19 09:10 |
| 2622335005 | Dup-01 | Water | 08/22/19 00:00 | 08/23/19 09:10 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622335

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2622335001 | FB-01 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622335002 | PZ-33 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622335003 | Dup-02 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622335004 | PZ-19 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622335005 | Dup-01 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622335

| Sample: FB-01 | | Lab ID: 2622335001 | | Collected: 08/22/19 08:15 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-38-2 | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-43-9 | |
| Chromium | 0.00050J | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-47-3 | B |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 16:57 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 13:55 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 16:13 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622335

| Sample: PZ-33 | | Lab ID: 2622335002 | | Collected: 08/22/19 10:04 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-38-2 | |
| Barium | 0.064 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7782-49-2 | |
| Thallium | 0.00017J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:03 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 13:58 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 16:35 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622335

| Sample: Dup-02 | | Lab ID: 2622335003 | | Collected: 08/22/19 00:00 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-38-2 | |
| Barium | 0.062 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7782-49-2 | |
| Thallium | 0.00017J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:08 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 14:00 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 16:58 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622335

| Sample: PZ-19 | | Lab ID: 2622335004 | | Collected: 08/22/19 12:32 | | Received: 08/23/19 09:10 | | Matrix: Water | | |
|--------------------------------|-----------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-38-2 | | |
| Barium | 0.047 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-41-7 | | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7439-92-1 | | |
| Lithium | 0.012J | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7439-93-2 | | |
| Molybdenum | 0.0021J | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7782-49-2 | | |
| Thallium | 0.00055J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:14 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 14:02 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Fluoride | 0.10J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 17:21 | 16984-48-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622335

| Sample: Dup-01 | | Lab ID: 2622335005 | | Collected: 08/22/19 00:00 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-38-2 | |
| Barium | 0.049 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7439-92-1 | |
| Lithium | 0.012J | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7439-93-2 | |
| Molybdenum | 0.0022J | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7782-49-2 | |
| Thallium | 0.00058J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:20 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 14:09 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | 0.079J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 17:43 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622335

QC Batch: 34265 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

METHOD BLANK: 154112 Matrix: Water
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 08/27/19 13:41 | |

LABORATORY CONTROL SAMPLE: 154113

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0026 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154114 154115

| Parameter | Units | 2622337002 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 | 0.0025 | 0.0025 | 101 | 100 | 75-125 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622335

QC Batch: 34320 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

METHOD BLANK: 154347 Matrix: Water
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 08/27/19 16:36 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/27/19 16:36 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/27/19 16:36 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/27/19 16:36 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/27/19 16:36 | |
| Chromium | mg/L | 0.0012J | 0.010 | 0.00039 | 08/27/19 16:36 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/27/19 16:36 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/27/19 16:36 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/27/19 16:36 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/27/19 16:36 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/27/19 16:36 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/27/19 16:36 | |

LABORATORY CONTROL SAMPLE: 154348

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.090 | 90 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.085 | 85 | 80-120 | |
| Barium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lead | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.087 | 87 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.089 | 89 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.085 | 85 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.087 | 87 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154349 154350

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2622337002 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 103 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.098 | 98 | 98 | 75-125 | 1 | 20 | | |
| Barium | mg/L | 0.078 | 0.1 | 0.1 | 0.18 | 0.18 | 104 | 104 | 75-125 | 0 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.092 | 0.093 | 92 | 93 | 75-125 | 1 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.10 | 99 | 101 | 75-125 | 2 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622335

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154349 | | 154350 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 2622337002 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.098 | 96 | 98 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | 0.0025J | 0.1 | 0.1 | 0.095 | 0.096 | 92 | 93 | 75-125 | 1 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 105 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.096 | 99 | 96 | 75-125 | 3 | 20 | | |
| Thallium | mg/L | 0.00018J | 0.1 | 0.1 | 0.098 | 0.099 | 97 | 99 | 75-125 | 1 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622335

QC Batch: 34533 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

METHOD BLANK: 155485 Matrix: Water
Associated Lab Samples: 2622335001, 2622335002, 2622335003, 2622335004, 2622335005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.30 | 0.029 | 08/30/19 13:57 | |

LABORATORY CONTROL SAMPLE: 155486

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 10 | 9.3 | 93 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155487 155488

| Parameter | Units | 2622319009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Fluoride | mg/L | ND | 10 | 10 | 10.8 | 10.7 | 108 | 107 | 90-110 | 1 | 15 | |

MATRIX SPIKE SAMPLE: 155523

| Parameter | Units | 2622337002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Fluoride | mg/L | 0.11J | 10 | 9.5 | 94 | 90-110 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622335

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622335

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2622335001 | FB-01 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622335002 | PZ-33 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622335003 | Dup-02 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622335004 | PZ-19 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622335005 | Dup-01 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622335001 | FB-01 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622335002 | PZ-33 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622335003 | Dup-02 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622335004 | PZ-19 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622335005 | Dup-01 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622335001 | FB-01 | EPA 300.0 | 34533 | | |
| 2622335002 | PZ-33 | EPA 300.0 | 34533 | | |
| 2622335003 | Dup-02 | EPA 300.0 | 34533 | | |
| 2622335004 | PZ-19 | EPA 300.0 | 34533 | | |
| 2622335005 | Dup-01 | EPA 300.0 | 34533 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manser Road
 Atlanta, GA 30339

Email: jabraham@southemco.com
 Phone: (404)506-7239
 Requested Due Date: **Standard**

Section B

Required Project Information:

Report To: Jolu Abraham
 Copy To: Wood EX1

Purchase Order #: SCS10382775
 Project Name: Plant Mitchell
 Project #: **6122160170**

Page: 1 of 1

Section C

Invoice Information:

Attention: scsvoices@southemco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betty.mcdaniel@pacelabs.com.
 Pace Profile #: 333.6.2

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | SAMPLE TEMP AT COLLECTION | | # OF CONTAINERS | PRESERVATIVES | | | | | | | ANALYSES TEST | Metals (Appendix IV) * | Fluoride | Radium 226/228 | Residual Chlorine (Y/N) |
|--------|----------------|------|------------|----------|-----------------------------|---------------------------------------|---------------------------|----------|-----------------|---------------|------|-----|------|---------|----------|-------|---------------|------------------------|----------|----------------|-------------------------|
| | | | START DATE | END DATE | | | START TIME | END TIME | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | | | |
| 1 | Drinking Water | DW | 8/22/19 | 8/25 | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 2 | Wastewater | WT | 1004 | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 3 | Wastewater | WW | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 4 | Wastewater | WV | 1232 | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 5 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 6 | Wastewater | WV | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 7 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 8 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 9 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 10 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 11 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |
| 12 | Wastewater | WP | | | WG | WG | | 4 | X | X | | | | | | X | X | X | | | |

WO#: 2622335

2622335

| RECEIVED BY / AFFILIATION | DATE | TIME | TEMP IN C | | Ice Received on | Sealed | Cooler | Samples Intact |
|---------------------------|----------------|-------------|-----------|-----|-----------------|--------|--------|----------------|
| | | | Y/N | Y/N | | | | |
| <i>Daniel Howard/Wood</i> | <i>8/22/19</i> | <i>1600</i> | | | | | | |
| <i>Madman</i> | <i>8/23/19</i> | <i>0910</i> | | | | | | |
| | | | | | | | | |
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4-8 X Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Daniel Howard**

SIGNATURE of SAMPLER: *Daniel Howard*

DATE Signed: **8/22/19**

Sample Condition Upon Receipt



Client Name: GAPower

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 789315479591

WO#: 2622335

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

PM: BM Due Date: 08/30/19

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.8

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/29/19 MR

Temp should be above freezing to 6°C

Comments:

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

December 18, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622337

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 9/4/2019. The report has been revised to correct Metals RLs to correspond with contract. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2622337

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622337

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622337001 | PZ-7D | Water | 08/22/19 09:25 | 08/23/19 09:10 |
| 2622337002 | PZ-17 | Water | 08/22/19 11:10 | 08/23/19 09:10 |
| 2622337003 | PZ-18 | Water | 08/22/19 13:50 | 08/23/19 09:10 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell
Pace Project No.: 2622337

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2622337001 | PZ-7D | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622337002 | PZ-17 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |
| 2622337003 | PZ-18 | EPA 6020B | CSW | 12 |
| | | EPA 7470A | DRB | 1 |
| | | EPA 300.0 | MWB | 1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622337

| Sample: PZ-7D | | Lab ID: 2622337001 | | Collected: 08/22/19 09:25 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-38-2 | |
| Barium | 0.0067J | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-43-9 | |
| Chromium | 0.0013J | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-47-3 | B |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7439-92-1 | |
| Lithium | 0.0029J | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7782-49-2 | |
| Thallium | 0.000086J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:26 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 14:12 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 18:06 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell

Pace Project No.: 2622337

| Sample: PZ-17 | | Lab ID: 2622337002 | | Collected: 08/22/19 11:10 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-38-2 | |
| Barium | 0.078 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7439-92-1 | |
| Lithium | 0.0025J | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7782-49-2 | |
| Thallium | 0.00018J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 17:31 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 13:46 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | 0.11J | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 19:36 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2622337

| Sample: PZ-18 | | Lab ID: 2622337003 | | Collected: 08/22/19 13:50 | | Received: 08/23/19 09:10 | | Matrix: Water | |
|--------------------------------|------------------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
| | | | Limit | MDL | DF | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00045J | mg/L | 0.0030 | 0.00027 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-38-2 | |
| Barium | 0.022 | mg/L | 0.010 | 0.00049 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.0030 | 0.000074 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-41-7 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00011 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-43-9 | |
| Chromium | 0.00081J | mg/L | 0.010 | 0.00039 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-47-3 | B |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7439-92-1 | |
| Lithium | 0.0026J | mg/L | 0.030 | 0.00078 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7782-49-2 | |
| Thallium | 0.000070J | mg/L | 0.0010 | 0.000052 | 1 | 08/27/19 11:50 | 08/27/19 18:06 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | |
| Mercury | ND | mg/L | 0.00050 | 0.00014 | 1 | 08/26/19 14:21 | 08/27/19 14:14 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 08/30/19 19:59 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622337

QC Batch: 34265 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622337001, 2622337002, 2622337003

METHOD BLANK: 154112 Matrix: Water
Associated Lab Samples: 2622337001, 2622337002, 2622337003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00050 | 0.00014 | 08/27/19 13:41 | |

LABORATORY CONTROL SAMPLE: 154113

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0026 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154114 154115

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2622337002 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 101 | 100 | 75-125 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622337

QC Batch: 34320 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622337001, 2622337002, 2622337003

METHOD BLANK: 154347 Matrix: Water
Associated Lab Samples: 2622337001, 2622337002, 2622337003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 08/27/19 16:36 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 08/27/19 16:36 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 08/27/19 16:36 | |
| Beryllium | mg/L | ND | 0.0030 | 0.000074 | 08/27/19 16:36 | |
| Cadmium | mg/L | ND | 0.0025 | 0.00011 | 08/27/19 16:36 | |
| Chromium | mg/L | 0.0012J | 0.010 | 0.00039 | 08/27/19 16:36 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 08/27/19 16:36 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 08/27/19 16:36 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 08/27/19 16:36 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 08/27/19 16:36 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 08/27/19 16:36 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 08/27/19 16:36 | |

LABORATORY CONTROL SAMPLE: 154348

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.090 | 90 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.085 | 85 | 80-120 | |
| Barium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.088 | 88 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lead | mg/L | 0.1 | 0.086 | 86 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.087 | 87 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.089 | 89 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.085 | 85 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.087 | 87 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154349 154350

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2622337002 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 103 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.098 | 98 | 98 | 75-125 | 1 | 20 | | |
| Barium | mg/L | 0.078 | 0.1 | 0.1 | 0.18 | 0.18 | 104 | 104 | 75-125 | 0 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.092 | 0.093 | 92 | 93 | 75-125 | 1 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.10 | 99 | 101 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2622337

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154349 | | 154350 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 2622337002 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.098 | 96 | 98 | 75-125 | 2 | 20 | |
| Lithium | mg/L | 0.0025J | 0.1 | 0.1 | 0.095 | 0.096 | 92 | 93 | 75-125 | 1 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 105 | 75-125 | 0 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.096 | 99 | 96 | 75-125 | 3 | 20 | |
| Thallium | mg/L | 0.00018J | 0.1 | 0.1 | 0.098 | 0.099 | 97 | 99 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2622337

QC Batch: 34533 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622337001, 2622337002, 2622337003

METHOD BLANK: 155485 Matrix: Water
Associated Lab Samples: 2622337001, 2622337002, 2622337003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Fluoride | mg/L | ND | 0.30 | 0.029 | 08/30/19 13:57 | |

LABORATORY CONTROL SAMPLE: 155486

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Fluoride | mg/L | 10 | 9.3 | 93 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 155487 155488

| Parameter | Units | 2622319009 | | 2622337002 | | 2622337003 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|------------|------------|------------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | |
| Fluoride | mg/L | ND | 10 | 10 | 10.8 | 10.7 | 108 | 107 | 90-110 | 1 | 15 |

MATRIX SPIKE SAMPLE: 155523

| Parameter | Units | 2622337002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Fluoride | mg/L | 0.11J | 10 | 9.5 | 94 | 90-110 | |

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622337

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622337

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2622337001 | PZ-7D | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622337002 | PZ-17 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622337003 | PZ-18 | EPA 3005A | 34320 | EPA 6020B | 34344 |
| 2622337001 | PZ-7D | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622337002 | PZ-17 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622337003 | PZ-18 | EPA 7470A | 34265 | EPA 7470A | 34311 |
| 2622337001 | PZ-7D | EPA 300.0 | 34533 | | |
| 2622337002 | PZ-17 | EPA 300.0 | 34533 | | |
| 2622337003 | PZ-18 | EPA 300.0 | 34533 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|--|-------------------------------|--|------------------------------------|-----------------------------|----------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Georgia Power - Coal Combustion Residuals | Report To: Jolu Abraham | Company Name: scsinvoices@southernco.com | Address: 2480 Marner Road | City To: Wood Edge | State / Location: GA |
| Address: Atlanta, GA 30339 | Purchase Order #: SCS10382775 | Address: Paces Project Manager: betsy.mcdaniel@pacelabs.com, | Project Name: Plant Mitchell | Pace Profile #: 333.6.2 | Regulatory Agency: |
| Email: jabraham@southernco.com | Project #: 6122160170 | Requested Due Date: <u>Standard</u> | Requested Analysis Filtered (Y/N): | | |
| Phone: (404)505-7239 | | | | | |

| ITEM # | MATRIX Drinking Water Waste Water Product Soil/Sed Oil Wipes Air Other Tissue | MATRIX CODE (see valid codes to left) | COLLECTED | | SAMPLE TYPE (G-GRAB C-COMP) | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | | | | | | | | | | ANALYSES TEST | RESIDUAL CHLORINE (Y/N) | | |
|--------|--|---------------------------------------|------------|----------|-----------------------------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|----------|-------|----------------------|----------|----------------|---------------|-------------------------|--|--|
| | | | START DATE | END DATE | | | | UNPRESERVED | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Metals (Appendix IV) | Fluoride | Radium 226/228 | | | | |
| 1 | | WG | 8/22/19 | 0925 | G | 4 | X | | | | | | | | | X | | | | | | |
| 2 | | WG | ↓ | 1110 | G | 6 | X | X | | | | | | | | X | X | | | | | |
| 3 | | WG | ↓ | 1350 | G | 4 | X | X | | | | | | | | X | X | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |

WO#: 2622337

| | | | | | | | | | | | | |
|----------------------------|-------------------------------|-----------------------|------|---------------------------|---------|-------------|-------------|-----------|-----------------|--------------|---------------|----------------------|
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | RECEIVED ON | TEMP IN C | Is Cooled (Y/N) | Sealed (Y/N) | Custody (Y/N) | Samples Intact (Y/N) |
| Daniel Howard / Wood | Daniel Howard / Wood | 8/22/19 | 1600 | Mcdaniel | 8/29/19 | 0910 | | 20 | X | X | X | X |
| SAMPLER NAME AND SIGNATURE | | PRINT NAME OF SAMPLER | | SIGNATURE OF SAMPLER | | DATE SIGNED | | | | | | |
| Daniel Howard | | Daniel Howard | | Daniel Howard | | 8/22/19 | | | | | | |

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: 812193945407

WO#: **2622337**

PM: BM Due Date: 08/30/19
CLIENT: GAPower-CCR

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/29/19 ME

Temp should be above freezing to 6°C Comments: _____

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): _____ | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

September 20, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622266

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2622266

Pennsylvania Certification IDs

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622266

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622266001 | EB-1 | Water | 08/21/19 08:30 | 08/22/19 09:10 |
| 2622266002 | PZ-2D | Water | 08/21/19 10:52 | 08/22/19 09:10 |
| 2622266003 | PZ-16 | Water | 08/21/19 13:16 | 08/22/19 09:10 |
| 2622266004 | PZ-25 | Water | 08/21/19 14:42 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622266

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622266001 | EB-1 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622266002 | PZ-2D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622266003 | PZ-16 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622266004 | PZ-25 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622266

Sample: EB-1 **Lab ID: 2622266001** Collected: 08/21/19 08:30 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.269 ± 0.217 (0.347) C:96% T:NA | pCi/L | 09/05/19 08:06 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.559 ± 0.498 (1.03) C:81% T:82% | pCi/L | 09/12/19 10:38 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.828 ± 0.715 (1.38) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622266

Sample: PZ-2D **Lab ID: 2622266002** Collected: 08/21/19 10:52 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.521 ± 0.318 (0.491) C:98% T:NA | pCi/L | 09/05/19 08:06 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.189 ± 0.409 (0.901) C:80% T:86% | pCi/L | 09/12/19 10:38 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.710 ± 0.727 (1.39) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622266

Sample: PZ-16 **Lab ID: 2622266003** Collected: 08/21/19 13:16 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.453 ± 0.290 (0.442) C:95% T:NA | pCi/L | 09/05/19 08:06 | 13982-63-3 | |
| Radium-228 | EPA 9320 | -0.318 ± 0.391 (0.943) C:77% T:95% | pCi/L | 09/12/19 10:38 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.453 ± 0.681 (1.39) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622266

Sample: PZ-25 **Lab ID: 2622266004** Collected: 08/21/19 14:42 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.777 ± 0.373 (0.482) C:89% T:NA | pCi/L | 09/05/19 08:07 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.399 ± 0.447 (0.941) C:79% T:86% | pCi/L | 09/12/19 11:16 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.18 ± 0.820 (1.42) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622266

QC Batch: 359489

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622266001, 2622266002, 2622266003

METHOD BLANK: 1745578

Matrix: Water

Associated Lab Samples: 2622266001, 2622266002, 2622266003

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.402 ± 0.246 (0.327) C:100% T:NA | pCi/L | 09/05/19 08:30 | |

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: Plant Mitchell

Pace Project No.: 2622266

QC Batch: 358698

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622266001, 2622266002, 2622266003, 2622266004

METHOD BLANK: 1741705

Matrix: Water

Associated Lab Samples: 2622266001, 2622266002, 2622266003, 2622266004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.944 ± 0.396 (0.631) C:81% T:90% | pCi/L | 09/12/19 10:29 | |

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: Plant Mitchell

Pace Project No.: 2622266

QC Batch: 359490

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622266004

METHOD BLANK: 1745579

Matrix: Water

Associated Lab Samples: 2622266004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.243 ± 0.244 (0.474) C:94% T:NA | pCi/L | 09/05/19 08:07 | |

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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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2622266

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622266

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622266001 | EB-1 | EPA 9315 | 359489 | | |
| 2622266002 | PZ-2D | EPA 9315 | 359489 | | |
| 2622266003 | PZ-16 | EPA 9315 | 359489 | | |
| 2622266004 | PZ-25 | EPA 9315 | 359490 | | |
| 2622266001 | EB-1 | EPA 9320 | 358698 | | |
| 2622266002 | PZ-2D | EPA 9320 | 358698 | | |
| 2622266003 | PZ-16 | EPA 9320 | 358698 | | |
| 2622266004 | PZ-25 | EPA 9320 | 358698 | | |
| 2622266001 | EB-1 | Total Radium Calculation | 361774 | | |
| 2622266002 | PZ-2D | Total Radium Calculation | 361774 | | |
| 2622266003 | PZ-16 | Total Radium Calculation | 361774 | | |
| 2622266004 | PZ-25 | Total Radium Calculation | 361774 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: labraham@southernco.com
 Phone: (404)506-7239
 Requested Due Date: **STANDARD**

Section B
 Required Project Information:
 Report To: Joey Abraham
 Copy To: Wood E&I
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell
 Project #: 6122160170

Section C
 Invoice Information:
 Attention: scsinvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.mcDaniel@paciellabs.com
 Pace Profile #: 333.6.2
 State / Location: GA

Page: 1 of 1

| ITEM # | MATRIX CODE (see wild codes to left) | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G-RAB C-COMP) | # OF CONTAINERS | UNPRESERVED | PRESERVATIVES | | | | | | | | | | ANALYSES TEST | Requester Analyst/Filtered (Y/N) | Residual Chlorine (Y/N) | | | | | |
|--------|--------------------------------------|---------------------|------|-----------|------|----------------------------|-----------------|-------------|---------------|------|-----|------|---------|----------|-------|---------------------|----------|----------------|---------------|----------------------------------|-------------------------|--|--|--|--|--|
| | | | | START | END | | | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Metals (Appendix M) | Fluoride | Radium 226/228 | | | | | | | | |
| 1 | WTG | Drinking Water | DW | DATE | TIME | | 4 | X | X | | | | | | | | X | | | | | | | | | |
| 2 | WTG | Waste Water | WW | DATE | TIME | | 4 | X | X | | | | | | | | X | | | | | | | | | |
| 3 | WTG | Waste Water Product | P | DATE | TIME | | 4 | X | X | | | | | | | | X | | | | | | | | | |
| 4 | WTG | Surface Oil | OL | DATE | TIME | | 4 | X | X | | | | | | | | X | | | | | | | | | |
| 5 | | Wipe | WP | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Air | AR | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Other | OT | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Tissue | TS | | | | | | | | | | | | | | | | | | | | | | | |

NO#: 2622266

DATE RECEIVED BY AFFILIATION: *8/22/19 1715* ANALYST: *M. Salzman*

DATE: *8/21/19* TIME: *1715* RECEIVED ON: *8/21/19*

TEMP IN C: *25.7*

SAMPLER NAME AND SIGNATURE: *David Howard*

PRINT NAME OF SAMPLER: *David Howard*

SIGNATURE OF SAMPLER: *David Howard*

DATE SIGNED: *8/21/19*



Sample Condition Upon Receipt

Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193945440

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

WO#: **2622266**

PM: **BM** Due Date: **09/20/19**
CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/22/19 MK

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

September 20, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622268

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2622268

Pennsylvania Certification IDs

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622268

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622268001 | PZ-31 | Water | 08/21/19 09:45 | 08/22/19 09:10 |
| 2622268002 | PZ-14 | Water | 08/21/19 11:40 | 08/22/19 09:10 |
| 2622268003 | PZ-23 | Water | 08/21/19 12:45 | 08/22/19 09:10 |
| 2622268004 | PZ-15 | Water | 08/21/19 14:10 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622268

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622268001 | PZ-31 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622268002 | PZ-14 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622268003 | PZ-23 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622268004 | PZ-15 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622268

Sample: PZ-31 **Lab ID: 2622268001** Collected: 08/21/19 09:45 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.779 ± 0.387 (0.548) C:93% T:NA | pCi/L | 09/05/19 08:08 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.423 ± 0.337 (0.669) C:81% T:95% | pCi/L | 09/12/19 11:17 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.20 ± 0.724 (1.22) | pCi/L | 09/17/19 14:18 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622268

Sample: PZ-14 **Lab ID: 2622268002** Collected: 08/21/19 11:40 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.446 ± 0.271 (0.368) C:94% T:NA | pCi/L | 09/05/19 08:18 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.259 ± 0.352 (0.751) C:82% T:83% | pCi/L | 09/12/19 11:18 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.705 ± 0.623 (1.12) | pCi/L | 09/17/19 14:18 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622268

Sample: PZ-23 **Lab ID: 2622268003** Collected: 08/21/19 12:45 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.459 ± 0.289 (0.431) C:89% T:NA | pCi/L | 09/05/19 08:08 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.85 ± 0.703 (1.10) C:56% T:90% | pCi/L | 09/12/19 10:31 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 2.31 ± 0.992 (1.53) | pCi/L | 09/17/19 14:18 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622268

Sample: PZ-15 **Lab ID: 2622268004** Collected: 08/21/19 14:10 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 2.5 mls of nitric acid were added to one container to meet the sample preservation requirement of pH <2 for radiological analyses. The sample was preserved <2 within the required 5 days of collection.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.608 ± 0.321 (0.402) C:91% T:NA | pCi/L | 09/05/19 08:08 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.25 ± 0.558 (0.971) C:80% T:85% | pCi/L | 09/12/19 10:31 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.86 ± 0.879 (1.37) | pCi/L | 09/17/19 14:18 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622268

QC Batch: 358698

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622268001, 2622268002, 2622268003, 2622268004

METHOD BLANK: 1741705

Matrix: Water

Associated Lab Samples: 2622268001, 2622268002, 2622268003, 2622268004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.944 ± 0.396 (0.631) C:81% T:90% | pCi/L | 09/12/19 10:29 | |

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: Plant Mitchell

Pace Project No.: 2622268

| | | | |
|-------------------------|--|-----------------------|-------------------|
| QC Batch: | 359490 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| Associated Lab Samples: | 2622268001, 2622268002, 2622268003, 2622268004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1745579 | Matrix: | Water |
| Associated Lab Samples: | 2622268001, 2622268002, 2622268003, 2622268004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.243 ± 0.244 (0.474) C:94% T:NA | pCi/L | 09/05/19 08:07 | |

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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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2622268

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622268

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622268001 | PZ-31 | EPA 9315 | 359490 | | |
| 2622268002 | PZ-14 | EPA 9315 | 359490 | | |
| 2622268003 | PZ-23 | EPA 9315 | 359490 | | |
| 2622268004 | PZ-15 | EPA 9315 | 359490 | | |
| 2622268001 | PZ-31 | EPA 9320 | 358698 | | |
| 2622268002 | PZ-14 | EPA 9320 | 358698 | | |
| 2622268003 | PZ-23 | EPA 9320 | 358698 | | |
| 2622268004 | PZ-15 | EPA 9320 | 358698 | | |
| 2622268001 | PZ-31 | Total Radium Calculation | 361776 | | |
| 2622268002 | PZ-14 | Total Radium Calculation | 361776 | | |
| 2622268003 | PZ-23 | Total Radium Calculation | 361776 | | |
| 2622268004 | PZ-15 | Total Radium Calculation | 361776 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | |
|--|--|
| Section A Required Client Information: Company: Georgia Power - Coal Combustion Residuals Address: 2480 Maner Road Atlanta, GA 30339 Email: jbraham@southernco.com Phone: (404)505-7239 Requested Due Date: <i>Standard</i> | Section B Required Project Information: Report To: Jiblu Abraham Copy To: Wood E&I Purchase Order #: SCS10382775 Project Name: Plant Mitchell Project #: <i>6123160170</i> |
| Section C Invoice Information: Attention: scsinvoices@southernco.com Company Name: Address: Pace Project Manager: betsy.mcdaniel@pacelabs.com Pace Profile #: 333.6.2 Regulatory Agency: State / Location: GA | |
| Page: <u>1</u> Of <u>1</u> | |

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | MATRIX CODE (see valid codes to left) | SAMPLE TEMP AT COLLECTION | | # OF CONTAINERS | PRESERVATIVES | | | | | | | | | | Analyses Test Y/N | Requested Analytes Filtered (Y/N) | Residual Chlorine (Y/N) | | |
|--------|--------|----------|------------|----------|-----------------------------|---------------------------------------|---------------------------|----------|-----------------|---------------|------|-----|------|---------|----------|-------|-----------------------|----------|----------------|-------------------|-----------------------------------|-------------------------|--|--|
| | | | START DATE | END DATE | | | START TIME | END TIME | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Metals (Appendix IV)* | Fluoride | Radium 226/228 | | | | | |
| 1 | | PZ-31 | | | W-G | | | | 4 | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 2 | | PZ-14+QC | | | W-G | | | | 6 | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 3 | | PZ-23 | | | W-G | | | | 4 | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 4 | | PZ-15 | | | W-G | | | | 4 | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|--|---|---|-------------------------|----------------------|-------------------------|----------------------|--|
| ADDITIONAL COMMENTS: Daniel Howard / Wood 8/19 1715 Daniel Howard 8/22/19 0910 | RELINQUISHED BY / AFFILIATION: Daniel Howard / Wood | ACCEPTED BY / AFFILIATION: Daniel Howard / Wood | DATE: 8/21/19 | TIME: 1715 | DATE: 8/22/19 | TIME: 0910 | SAMPLE CONDITIONS: Received on: 4.2 Ice (Y/N): Sealed (Y/N): Custody (Y/N): Cooler (Y/N): Samples Intact (Y/N): |
| SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Daniel Howard SIGNATURE of SAMPLER: <i>Daniel Howard</i> DATE Signed: 8/21/19 | | | | | | | |



Sample Condition Upon Receipt

Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812190945370

WO#: **2622268**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

PM: **BM** Due Date: **09/20/19**
CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.2 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/22/19 MR

Temp should be above freezing to 6°C Comments:

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

September 20, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622270

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2622270

Pennsylvania Certification IDs

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2622270

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622270001 | PZ-32 | Water | 08/20/19 15:03 | 08/22/19 09:10 |
| 2622270002 | PZ-1D | Water | 08/20/19 16:10 | 08/22/19 09:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622270

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622270001 | PZ-32 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622270002 | PZ-1D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622270

Sample: PZ-32 **Lab ID: 2622270001** Collected: 08/20/19 15:03 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.307 ± 0.301 (0.578) C:73% T:NA | pCi/L | 09/05/19 08:08 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.0268 ± 0.367 (0.841) C:79% T:93% | pCi/L | 09/12/19 11:16 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.334 ± 0.668 (1.42) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622270

Sample: PZ-1D **Lab ID: 2622270002** Collected: 08/20/19 16:10 Received: 08/22/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.417 ± 0.302 (0.499) C:83% T:NA | pCi/L | 09/05/19 08:08 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.178 ± 0.317 (0.693) C:79% T:88% | pCi/L | 09/12/19 11:17 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.595 ± 0.619 (1.19) | pCi/L | 09/17/19 14:15 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622270

QC Batch: 358698

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622270001, 2622270002

METHOD BLANK: 1741705

Matrix: Water

Associated Lab Samples: 2622270001, 2622270002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.944 ± 0.396 (0.631) C:81% T:90% | pCi/L | 09/12/19 10:29 | |

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: Plant Mitchell

Pace Project No.: 2622270

QC Batch: 359490

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622270001, 2622270002

METHOD BLANK: 1745579

Matrix: Water

Associated Lab Samples: 2622270001, 2622270002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.243 ± 0.244 (0.474) C:94% T:NA | pCi/L | 09/05/19 08:07 | |

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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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622270

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622270

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622270001 | PZ-32 | EPA 9315 | 359490 | | |
| 2622270002 | PZ-1D | EPA 9315 | 359490 | | |
| 2622270001 | PZ-32 | EPA 9320 | 358698 | | |
| 2622270002 | PZ-1D | EPA 9320 | 358698 | | |
| 2622270001 | PZ-32 | Total Radium Calculation | 361774 | | |
| 2622270002 | PZ-1D | Total Radium Calculation | 361774 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|------------------------------|---|-------------------------------|----------------|-----------------------|------------------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: | Georgia Power - Coal Combustion Residuals | Report To: | Juju Abraham | Attention: | scsvoices@southernco.com |
| Address: | 2480 Maner Road | Copy To: | Wood E&I | Company Name: | |
| | Atlanta, GA 30339 | Purchase Order #: | SCS10382775 | Address: | |
| Email: | jabraham@southernco.com | Project Name: | Plant Mitchell | Pace Quote: | |
| Phone: | (404)506-7239 | Project #: | 6122160170 | Pace Project Manager: | betsy.mcdaniels@pacelabs.com |
| Requested Due Date: | 3/20/19 | | | Pace Profile #: | 333.6.2 |
| | | | | State / Location: | GA |
| | | | | Regulatory Agency: | |

Page: 1 Of 1

| ITEM # | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | ANALYSES TEST | REQUESTED ANALYSIS FILTERED (Y/N) | | RESIDUAL CHLORINE (Y/N) |
|--------|---------------------------------------|-----------------------------|--------------|----------|---------------------------|-----------------|---------------|------|---------------|-----------------------------------|------|-------------------------|
| | | | START DATE | END DATE | | | H2SO4 | HNO3 | | HCl | NaOH | |
| 1 | | WG | 3/24/19 1503 | | | 4X | X | | | X | X | |
| 2 | | WG | 3/24/19 1610 | | | 4X | X | | | X | X | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

NO#: 2622270

| RELEASUED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | RECEIVED ON | TEMP in C | Isa (Y/N) | Custody Sealed (Y/N) | Samples Intact (Y/N) |
|----------------------------|---------|------|---------------------------|---------|------|-------------|-----------|-----------|----------------------|----------------------|
| Daniel Howard / Wood | 3/24/19 | 1715 | Daniel Howard | 3/22/19 | 0910 | | 4.0 | X | X | X |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: *Daniel Howard*

DATE Signed: 8/21/19

Sample Condition Upon Receipt



Client Name: GIA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 8121 9394 5430

WO#: 2622270

PM: **BM** Due Date: **09/20/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GIPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

| |
|--|
| Date and initials of person examining contents: <u>8/22/19</u> |
|--|

| | | Comments: |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution: _____ Field Data Required? **Y / N**

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

September 23, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

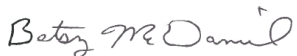
RE: Project: Plant Mitchell
Pace Project No.: 2622336

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2622336

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2622336

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622336001 | FB-01 | Water | 08/22/19 08:15 | 08/23/19 09:10 |
| 2622336002 | PZ-33 | Water | 08/22/19 10:04 | 08/23/19 09:10 |
| 2622336003 | Dup-02 | Water | 08/22/19 00:00 | 08/23/19 09:10 |
| 2622336004 | PZ-19 | Water | 08/22/19 12:32 | 08/23/19 09:10 |
| 2622336005 | Dup-01 | Water | 08/22/19 00:00 | 08/23/19 09:10 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622336

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622336001 | FB-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622336002 | PZ-33 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622336003 | Dup-02 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622336004 | PZ-19 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622336005 | Dup-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

Sample: FB-01 **Lab ID: 2622336001** Collected: 08/22/19 08:15 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.461 ± 0.242 (0.330) C:81% T:NA | pCi/L | 09/09/19 08:48 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.307 ± 0.433 (0.930) C:65% T:80% | pCi/L | 09/19/19 12:09 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.768 ± 0.675 (1.26) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

Sample: PZ-33 **Lab ID: 2622336002** Collected: 08/22/19 10:04 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.407 ± 0.226 (0.309) C:81% T:NA | pCi/L | 09/09/19 08:48 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.106 ± 0.446 (1.01) C:65% T:80% | pCi/L | 09/19/19 12:09 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.513 ± 0.672 (1.32) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

Sample: Dup-02 **Lab ID: 2622336003** Collected: 08/22/19 00:00 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.623 ± 0.283 (0.360) C:81% T:NA | pCi/L | 09/09/19 08:48 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.284 ± 0.359 (0.763) C:69% T:88% | pCi/L | 09/19/19 12:09 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.907 ± 0.642 (1.12) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

Sample: PZ-19 **Lab ID: 2622336004** Collected: 08/22/19 12:32 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.422 ± 0.221 (0.295) C:86% T:NA | pCi/L | 09/09/19 08:52 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.945 ± 0.480 (0.842) C:69% T:80% | pCi/L | 09/19/19 12:09 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.37 ± 0.701 (1.14) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

Sample: Dup-01 **Lab ID: 2622336005** Collected: 08/22/19 00:00 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.632 ± 0.297 (0.408) C:79% T:NA | pCi/L | 09/09/19 08:49 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.922 ± 0.463 (0.817) C:71% T:82% | pCi/L | 09/19/19 12:09 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.55 ± 0.760 (1.23) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

QC Batch: 358895

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622336001, 2622336002, 2622336003, 2622336004, 2622336005

METHOD BLANK: 1742554

Matrix: Water

Associated Lab Samples: 2622336001, 2622336002, 2622336003, 2622336004, 2622336005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.167 ± 0.291 (0.635) C:73% T:86% | pCi/L | 09/19/19 12:11 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622336

QC Batch: 359801 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Associated Lab Samples: 2622336001, 2622336002, 2622336003, 2622336004, 2622336005

METHOD BLANK: 1746802 Matrix: Water
 Associated Lab Samples: 2622336001, 2622336002, 2622336003, 2622336004, 2622336005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.563 ± 0.229 (0.205) C:97% T:NA | pCi/L | 09/09/19 09:06 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2622336

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2622336

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622336001 | FB-01 | EPA 9315 | 359801 | | |
| 2622336002 | PZ-33 | EPA 9315 | 359801 | | |
| 2622336003 | Dup-02 | EPA 9315 | 359801 | | |
| 2622336004 | PZ-19 | EPA 9315 | 359801 | | |
| 2622336005 | Dup-01 | EPA 9315 | 359801 | | |
| 2622336001 | FB-01 | EPA 9320 | 358895 | | |
| 2622336002 | PZ-33 | EPA 9320 | 358895 | | |
| 2622336003 | Dup-02 | EPA 9320 | 358895 | | |
| 2622336004 | PZ-19 | EPA 9320 | 358895 | | |
| 2622336005 | Dup-01 | EPA 9320 | 358895 | | |
| 2622336001 | FB-01 | Total Radium Calculation | 362430 | | |
| 2622336002 | PZ-33 | Total Radium Calculation | 362430 | | |
| 2622336003 | Dup-02 | Total Radium Calculation | 362430 | | |
| 2622336004 | PZ-19 | Total Radium Calculation | 362430 | | |
| 2622336005 | Dup-01 | Total Radium Calculation | 362430 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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


| | | | | | |
|--|-------------------------------|--|---------------|---|------|
| Section A Requested Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: Georgia Power - Coal Combustion Residuals | Report To: Jihu Abraham | Attention: scsinvoices@southernco.com | Company Name: | Page: 1 | Of 1 |
| Address: 2480 Manor Road Atlanta, GA 30339 | Copy To: Wood E&I | Address: | | Regulatory Agency: State / Location: GA | |
| Email: jbraham@southernco.com | Purchase Order #: SCS10382775 | Pace Project Manager: betsy.mcdaniel@pceelabs.com. | | | |
| Phone: (404) 506-7239 Fax: | Project Name: Plant Mitchell | Pace Profile #: 333.6.2 | | | |
| Requested Due Date: Standard | Project #: 6122160170 | | | | |

| # | ITEM | MATRIX | CODE | COLLECTED | | | SAMPLE TYPE (G-RAB C-COMP) | MATRIX CODE (see valid codes to left) | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | ANALYSIS TEST | | Residual Chrome (Y/N) | | |
|----|------|-----------------|------|------------|----------|------|----------------------------|---------------------------------------|---------------------------|-----------------|---------------|------|---------------|------|-----------------------|---------|----------|
| | | | | START DATE | END DATE | TIME | | | | | H2SO4 | HNO3 | HCl | NaOH | | Na2S2O3 | Methanol |
| 1 | | Drinking Water | DW | | | | WTG | | 4 X | | | | | X | | | |
| 2 | | Waste Water | WW | | | | WTG | | 4 X | | | | | X | | | |
| 3 | | Process Product | P | | | | WTG | | 4 X | | | | | X | | | |
| 4 | | Soil | SL | | | | WTG | | 4 X | | | | | X | | | |
| 5 | | Waste | WP | | | | WTG | | 4 X | | | | | X | | | |
| 6 | | Air | AR | | | | WTG | | | | | | | | | | |
| 7 | | Other | OT | | | | WTG | | | | | | | | | | |
| 8 | | Tissue | TS | | | | WTG | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / . -)

FR-01
 PZ-33
 DUP-02
 PZ-19
 DUP-01

WO#: 2622336



2622336

| REQUISITIONED BY / AFFILIATION | DATE | TIME | RECEIVED BY / AFFILIATION | DATE | TIME |
|--------------------------------|---------|------|---------------------------|---------|------|
| Daniel Howard / Wood | 8/22/19 | 1600 | Malman | 8/23/19 | 0910 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

TEMP in C: 4.8 x 4 x 4

| | |
|----------------|-------|
| Received on | (Y/N) |
| Ice | (Y/N) |
| Custody Sealed | (Y/N) |
| Cooler | (Y/N) |
| Samples | (Y/N) |
| Inlet | (Y/N) |

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 8/22/19

Sample Condition Upon Receipt



Client Name: GAPower

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

WO#: **2622336**

Tracking #: 789315479591

PM: **BM** Due Date: **09/23/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.8
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/23/19 MR

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

September 23, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2622338

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2622338

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2622338

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622338001 | PZ-7D | Water | 08/22/19 09:25 | 08/23/19 09:10 |
| 2622338002 | PZ-17 | Water | 08/22/19 11:10 | 08/23/19 09:10 |
| 2622338003 | PZ-18 | Water | 08/22/19 13:50 | 08/23/19 09:10 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2622338

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622338001 | PZ-7D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622338002 | PZ-17 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622338003 | PZ-18 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622338

Sample: PZ-7D **Lab ID: 2622338001** Collected: 08/22/19 09:25 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.304 ± 0.185 (0.267) C:87% T:NA | pCi/L | 09/09/19 08:52 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.368 ± 0.374 (0.774) C:72% T:86% | pCi/L | 09/19/19 12:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.672 ± 0.559 (1.04) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622338

Sample: PZ-17 **Lab ID: 2622338002** Collected: 08/22/19 11:10 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.452 ± 0.264 (0.428) C:86% T:NA | pCi/L | 09/09/19 08:52 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.525 ± 0.473 (0.966) C:71% T:78% | pCi/L | 09/19/19 12:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.977 ± 0.737 (1.39) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622338

Sample: PZ-18 **Lab ID: 2622338003** Collected: 08/22/19 13:50 Received: 08/23/19 09:10 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.288 ± 0.194 (0.300) C:84% T:NA | pCi/L | 09/09/19 08:53 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.465 ± 0.426 (0.867) C:72% T:77% | pCi/L | 09/19/19 12:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.753 ± 0.620 (1.17) | pCi/L | 09/20/19 12:23 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622338

QC Batch: 358895

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622338001, 2622338002, 2622338003

METHOD BLANK: 1742554

Matrix: Water

Associated Lab Samples: 2622338001, 2622338002, 2622338003

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.167 ± 0.291 (0.635) C:73% T:86% | pCi/L | 09/19/19 12:11 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2622338

QC Batch: 359801

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622338001, 2622338002, 2622338003

METHOD BLANK: 1746802

Matrix: Water

Associated Lab Samples: 2622338001, 2622338002, 2622338003

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.563 ± 0.229 (0.205) C:97% T:NA | pCi/L | 09/09/19 09:06 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2622338

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2622338

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622338001 | PZ-7D | EPA 9315 | 359801 | | |
| 2622338002 | PZ-17 | EPA 9315 | 359801 | | |
| 2622338003 | PZ-18 | EPA 9315 | 359801 | | |
| 2622338001 | PZ-7D | EPA 9320 | 358895 | | |
| 2622338002 | PZ-17 | EPA 9320 | 358895 | | |
| 2622338003 | PZ-18 | EPA 9320 | 358895 | | |
| 2622338001 | PZ-7D | Total Radium Calculation | 362430 | | |
| 2622338002 | PZ-17 | Total Radium Calculation | 362430 | | |
| 2622338003 | PZ-18 | Total Radium Calculation | 362430 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manser Road
 Atlanta, GA 30339
 Email: jbraham@southemco.com
 Phone: (404) 506-7239
 Requested Due Date: 5/20/19

Section B
 Required Project Information:
 Report To: Jopi Abraham
 Copy To: Wood E&I
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell
 Project #: 6122160170

Section C
 Invoice Information:
 Attention: scsvoices@southemco.com
 Company Name:
 Address:
 Paces Quote:
 Paces Project Manager: betsy.mcdaniel@pascalabs.com
 Paces Profile #: 333.6.2
 State / Location: GA

Page: 1 of 1

| ITEM # | MATRIX | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | | | | | | ANALYSES TEST Y/N | Metals (Appendix IV) | Fluoride | Radium 226/228 | Residual Chlorine (Y/N) |
|--------|----------------|---------------------------------------|-----------------------------|------------|----------|---------------------------|-----------------|---------------|------|-----|------|---------|----------|-------|-------------------|----------------------|----------|----------------|-------------------------|
| | | | | START DATE | END DATE | | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | | | |
| 1 | Drinking Water | DW | G | 8/22/19 | 0925 | | 4 | X | X | X | | | | | | | | | |
| 2 | Waste Water | WW | G | | 1110 | | 6 | X | X | X | | | | | | | | | |
| 3 | Waste Water | WW | G | | 1350 | | 4 | X | X | X | | | | | | | | | |
| 4 | Product | P | | | | | | | | | | | | | | | | | |
| 5 | Soil/Sediment | SL | | | | | | | | | | | | | | | | | |
| 6 | Oil | OL | | | | | | | | | | | | | | | | | |
| 7 | Wipe | WP | | | | | | | | | | | | | | | | | |
| 8 | Air | AR | | | | | | | | | | | | | | | | | |
| 9 | Other | OT | | | | | | | | | | | | | | | | | |
| 10 | Tissue | TS | | | | | | | | | | | | | | | | | |

W0#: 2622338

2622338

RELINQUISHED BY / AFFILIATION: Daniel Howard / Wood
 DATE: 8/22/19 1600

ACCEPTED BY / AFFILIATION: Maalman
 DATE: 8/29/19 0910

TEMP in C: 20.7

Received on: 8/22/19

Sealed: Y

Cooler: Y

Samples Inact (Y/N): Y

SAMPLER NAME AND SIGNATURE: Daniel Howard
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: Daniel Howard
 DATE Signed: 8/22/19

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193945407

WO#: 2622338

PM: **BM** Due Date: **09/23/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83

Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/23/19 [Signature]

Temp should be above freezing to 6°C

Comments:

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

Product Name: Low-Flow System

Date: 2019-08-20 16:07:25

Project Information:

Operator Name Ever Guillen
Company Name Wood
Project Name Plant Mitchell CCR Phase II
Site Name PZ-1D
ft Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 81.7

Pump placement from TOC 76.7 ft

Well Information:

Well ID PZ-1D
Well diameter 2 in
Well Total Depth 81.71 ft
Screen Length 10 ft
Depth to Water 53.92 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6788166 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond mS/ | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|----------|------------|----------|--------|----------|---------|
| Stabilization | | | +/- 1% | +/- 0.1% | +/- 5% | +/- 5% | | +/- 0.2% | +/- 10% |
| Last 5 | 15:44:02 | 2146.26 | 22.17 | 7.76 | 0.24 | 2.26 | 56.96 | 3.92 | 76.94 |
| Last 5 | 15:49:02 | 2446.26 | 22.68 | 7.79 | 0.23 | 2.23 | 56.96 | 3.79 | 76.02 |
| Last 5 | 15:54:02 | 2746.26 | 23.30 | 7.82 | 0.23 | 1.53 | 56.96 | 3.74 | 75.04 |
| Last 5 | 15:59:02 | 3046.26 | 23.33 | 7.86 | 0.24 | 1.41 | 56.96 | 3.86 | 75.96 |
| Last 5 | 16:04:02 | 3346.26 | 22.89 | 7.87 | 0.24 | 1.56 | 56.96 | 4.00 | 76.06 |
| Variance 0 | | | 0.62 | 0.03 | 0.00 | | | -0.05 | -0.98 |
| Variance 1 | | | 0.03 | 0.04 | 0.00 | | | 0.12 | 0.92 |
| Variance 2 | | | -0.43 | 0.01 | 0.00 | | | 0.14 | 0.10 |

Notes

Sampled @ 1610

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 09:21:24

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-2D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Mocro Bladder
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 81 ft

Pump placement from TOC 76 ft

Well Information:

Well ID PZ-2D
Well diameter 2 in
Well Total Depth 80.96 ft
Screen Length 10 ft
Depth to Water 37.15 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.5515373 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 09:00:19 | 600.03 | 21.41 | 8.57 | 118.04 | 5.09 | 37.44 | 3.24 | 111.34 |
| Last 5 | 09:05:19 | 900.03 | 21.30 | 8.63 | 124.01 | 4.46 | 37.44 | 3.22 | 122.29 |
| Last 5 | 09:10:19 | 1200.02 | 21.47 | 8.66 | 129.31 | 3.59 | 37.44 | 3.17 | 125.90 |
| Last 5 | 09:15:19 | 1500.02 | 21.58 | 8.67 | 133.88 | 3.00 | 37.44 | 3.11 | 128.80 |
| Last 5 | 09:20:19 | 1799.88 | 21.36 | 8.68 | 136.68 | 3.27 | 37.44 | 3.08 | 126.70 |
| Variance 0 | | | 0.17 | 0.03 | 5.31 | | | -0.06 | 3.61 |
| Variance 1 | | | 0.11 | 0.01 | 4.56 | | | -0.06 | 2.91 |
| Variance 2 | | | -0.22 | 0.01 | 2.80 | | | -0.03 | -2.11 |

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 09:54:24

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-2D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .17 in
Tubing Length 81 ft

Pump placement from TOC 76 ft

Well Information:

Well ID PZ-2D
Well diameter 2 in
Well Total Depth 80.96 ft
Screen Length 10 ft
Depth to Water 37.15 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5515373 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 09:30:45 | 300.03 | 21.61 | 8.74 | 141.14 | 2.51 | 37.44 | 3.01 | 127.80 |
| Last 5 | 09:35:45 | 600.02 | 21.30 | 8.73 | 143.83 | 3.27 | 37.44 | 2.99 | 125.79 |
| Last 5 | 09:40:45 | 900.02 | 21.36 | 8.76 | 143.61 | 2.72 | 37.44 | 2.97 | 124.56 |
| Last 5 | 09:45:45 | 1200.02 | 21.49 | 8.77 | 146.35 | 3.23 | 37.44 | 2.96 | 124.66 |
| Last 5 | 09:50:45 | 1500.02 | 21.45 | 8.76 | 147.78 | 2.90 | 37.44 | 2.95 | 125.23 |
| Variance 0 | | | 0.06 | 0.04 | -0.22 | | | -0.01 | -1.24 |
| Variance 1 | | | 0.14 | 0.01 | 2.74 | | | -0.01 | 0.11 |
| Variance 2 | | | -0.05 | -0.00 | 1.43 | | | -0.01 | 0.57 |

Notes

PZ-2D sample time 1052

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-22 09:24:27

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 7D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 60.37 ft

Pump placement from TOC 55.37 ft

Well Information:

Well ID PZ 7D
Well diameter 2 in
Well Total Depth 60.37 ft
Screen Length 10 ft
Depth to Water 35.34 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.062735 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 09:02:22 | 900.03 | 21.60 | 7.38 | 552.14 | 1.61 | 35.17 | 0.34 | 53.80 |
| Last 5 | 09:07:22 | 1199.90 | 21.68 | 7.35 | 552.24 | 1.38 | 35.17 | 0.35 | 53.88 |
| Last 5 | 09:12:22 | 1499.91 | 21.85 | 7.34 | 552.07 | 1.19 | 35.17 | 0.36 | 53.70 |
| Last 5 | 09:17:22 | 1799.90 | 21.81 | 7.32 | 551.54 | 1.06 | 35.17 | 0.35 | 53.72 |
| Last 5 | 09:22:22 | 2099.90 | 21.76 | 7.31 | 552.49 | 0.95 | 35.17 | 0.33 | 53.42 |
| Variance 0 | | | 0.17 | -0.02 | -0.17 | | | 0.00 | -0.18 |
| Variance 1 | | | -0.04 | -0.01 | -0.53 | | | -0.01 | 0.03 |
| Variance 2 | | | -0.05 | -0.01 | 0.95 | | | -0.02 | -0.30 |

Notes

Sampled @ 0925

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 11:37:49

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 14
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 53.20 ft

Pump placement from TOC 48.20 ft

Well Information:

Well ID PZ 14
Well diameter 2 in
Well Total Depth 53.20 ft
Screen Length 10 ft
Depth to Water 45.58 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9935253 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 11:14:32 | 1849.03 | 22.58 | 7.34 | 488.25 | 0.87 | 45.64 | 4.04 | 76.34 |
| Last 5 | 11:19:32 | 2149.02 | 22.75 | 7.33 | 488.75 | 1.01 | 45.64 | 3.81 | 75.69 |
| Last 5 | 11:24:32 | 2449.03 | 23.10 | 7.31 | 490.23 | 0.64 | 45.64 | 3.72 | 75.60 |
| Last 5 | 11:29:33 | 2750.02 | 22.93 | 7.32 | 489.19 | 0.84 | 45.64 | 3.67 | 75.20 |
| Last 5 | 11:34:33 | 3050.02 | 22.84 | 7.31 | 488.97 | 0.74 | 45.64 | 3.64 | 75.25 |
| Variance 0 | | | 0.35 | -0.02 | 1.47 | | | -0.09 | -0.09 |
| Variance 1 | | | -0.17 | 0.01 | -1.04 | | | -0.05 | -0.39 |
| Variance 2 | | | -0.09 | -0.00 | -0.22 | | | -0.03 | 0.05 |

Notes

Sampled @ 1140

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 14:09:44

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 15
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 83.22 ft

Pump placement from TOC 78.22 ft

Well Information:

Well ID PZ 15
Well diameter 2 in
Well Total Depth 83.22 ft
Screen Length 10 ft
Depth to Water 32.88 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.2833 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 13:46:24 | 899.90 | 26.62 | 7.51 | 510.60 | 2.66 | 33.78 | 0.19 | -39.82 |
| Last 5 | 13:51:24 | 1199.90 | 26.31 | 7.51 | 509.00 | 1.90 | 33.78 | 0.18 | -38.27 |
| Last 5 | 13:56:24 | 1499.89 | 26.13 | 7.51 | 511.39 | 1.52 | 33.78 | 0.19 | -37.22 |
| Last 5 | 14:01:24 | 1799.90 | 25.93 | 7.50 | 513.31 | 1.44 | 33.78 | 0.19 | -37.81 |
| Last 5 | 14:06:24 | 2099.95 | 26.00 | 7.51 | 509.87 | 1.63 | 33.78 | 0.19 | -41.24 |
| Variance 0 | | | -0.18 | 0.00 | 2.39 | | | 0.01 | 1.05 |
| Variance 1 | | | -0.20 | -0.01 | 1.92 | | | 0.00 | -0.59 |
| Variance 2 | | | 0.07 | 0.01 | -3.43 | | | -0.00 | -3.43 |

Notes

Sampled @ 1410

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 12:18:55

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-16
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 53.2 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID PZ-16
Well diameter 2 in
Well Total Depth 53.19 ft
Screen Length 10 ft
Depth to Water 36.81 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9935253 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 11:55:40 | 600.03 | 23.66 | 7.21 | 484.34 | 2.77 | 36.93 | 1.33 | 172.09 |
| Last 5 | 12:00:40 | 900.02 | 23.60 | 7.22 | 483.01 | 2.95 | 36.93 | 1.32 | 173.20 |
| Last 5 | 12:05:40 | 1200.02 | 23.86 | 7.22 | 482.74 | 1.79 | 36.93 | 1.30 | 172.35 |
| Last 5 | 12:10:40 | 1499.86 | 23.69 | 7.23 | 481.99 | 1.07 | 36.93 | 1.30 | 170.69 |
| Last 5 | 12:15:40 | 1799.86 | 23.53 | 7.23 | 480.56 | 0.54 | 36.93 | 1.30 | 170.29 |
| Variance 0 | | | 0.27 | 0.00 | -0.26 | | | -0.02 | -0.85 |
| Variance 1 | | | -0.18 | 0.00 | -0.75 | | | -0.01 | -1.65 |
| Variance 2 | | | -0.16 | 0.00 | -1.43 | | | 0.01 | -0.40 |

Notes

PZ-16 sample time 1316

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-22 11:05:47

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 17
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 62.70 ft

Pump placement from TOC 57.70 ft

Well Information:

Well ID PZ 17
Well diameter 2 in
Well Total Depth 62.70 ft
Screen Length 10 ft
Depth to Water 34.82 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.085226 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 10:43:10 | 1500.03 | 22.85 | 7.25 | 593.71 | 7.12 | 34.92 | 0.12 | -45.00 |
| Last 5 | 10:48:10 | 1800.03 | 22.98 | 7.24 | 592.00 | 5.82 | 34.92 | 0.12 | -43.07 |
| Last 5 | 10:53:10 | 2100.03 | 23.06 | 7.24 | 593.68 | 5.39 | 34.92 | 0.13 | -43.22 |
| Last 5 | 10:58:11 | 2401.03 | 23.01 | 7.24 | 592.75 | 3.06 | 34.92 | 0.13 | -42.63 |
| Last 5 | 11:03:11 | 2701.03 | 22.97 | 7.24 | 592.18 | 1.77 | 34.92 | 0.13 | -42.49 |
| Variance 0 | | | 0.08 | -0.01 | 1.68 | | | 0.01 | -0.15 |
| Variance 1 | | | -0.05 | 0.00 | -0.93 | | | 0.00 | 0.60 |
| Variance 2 | | | -0.04 | 0.00 | -0.57 | | | 0.00 | 0.14 |

Notes

Sampled @ 1110

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-22 13:46:14

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 18
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 63.18 ft

Pump placement from TOC 58.18 ft

Well Information:

Well ID PZ 18
Well diameter 2 in
Well Total Depth 63.18 ft
Screen Length 10 ft
Depth to Water 32.19 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.08986 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 13:22:50 | 1501.91 | 26.83 | 7.02 | 629.50 | 8.69 | 32.39 | 0.21 | 11.92 |
| Last 5 | 13:27:50 | 1801.91 | 27.29 | 7.02 | 626.61 | 4.26 | 32.39 | 0.19 | 11.46 |
| Last 5 | 13:32:50 | 2101.91 | 26.54 | 7.03 | 622.87 | 1.84 | 32.39 | 0.18 | 12.97 |
| Last 5 | 13:37:50 | 2401.91 | 26.95 | 7.02 | 627.59 | 0.92 | 32.39 | 0.18 | 11.17 |
| Last 5 | 13:42:50 | 2701.91 | 26.55 | 7.02 | 623.33 | 1.12 | 32.39 | 0.19 | 13.66 |
| Variance 0 | | | -0.75 | 0.01 | -3.74 | | | -0.01 | 1.51 |
| Variance 1 | | | 0.41 | -0.01 | 4.73 | | | 0.00 | -1.80 |
| Variance 2 | | | -0.40 | -0.00 | -4.27 | | | 0.00 | 2.49 |

Notes

Sampled @ 1350

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-22 11:35:46

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-19
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 62.6 ft

Pump placement from TOC 57.6 ft

Well Information:

Well ID PZ-19
Well diameter 2 in
Well Total Depth 62.63 ft
Screen Length 10 ft
Depth to Water 34.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.084261 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.09 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 11:10:10 | 599.87 | 23.98 | 6.73 | 856.60 | 2.04 | 34.61 | 0.46 | 62.44 |
| Last 5 | 11:15:10 | 899.87 | 24.09 | 6.73 | 856.07 | 1.59 | 34.61 | 0.45 | 61.58 |
| Last 5 | 11:20:10 | 1199.87 | 24.10 | 6.73 | 851.00 | 1.72 | 34.61 | 0.44 | 61.00 |
| Last 5 | 11:25:10 | 1499.87 | 24.05 | 6.73 | 848.11 | 1.21 | 34.61 | 0.43 | 59.98 |
| Last 5 | 11:30:10 | 1799.87 | 24.00 | 6.73 | 848.17 | 1.10 | 34.61 | 0.42 | 58.40 |
| Variance 0 | | | 0.01 | -0.00 | -5.07 | | | -0.01 | -0.58 |
| Variance 1 | | | -0.05 | 0.01 | -2.90 | | | -0.01 | -1.02 |
| Variance 2 | | | -0.05 | -0.00 | 0.07 | | | -0.01 | -1.59 |

Notes

PZ-19 sample time 1232. DUP-01 collected.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 12:44:54

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 23
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 63.60 ft

Pump placement from TOC 58.60 ft

Well Information:

Well ID PZ 23
Well diameter 2 in
Well Total Depth 63.60 ft
Screen Length 10 ft
Depth to Water 52.84 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.093914 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 12:20:50 | 300.10 | 23.33 | 7.14 | 671.82 | 0.94 | 52.61 | 4.34 | 84.68 |
| Last 5 | 12:25:50 | 600.02 | 23.33 | 7.11 | 674.32 | 0.61 | 52.61 | 4.36 | 84.22 |
| Last 5 | 12:30:50 | 900.02 | 23.27 | 7.08 | 673.80 | 0.62 | 52.61 | 4.40 | 84.27 |
| Last 5 | 12:35:50 | 1200.02 | 23.44 | 7.07 | 671.30 | 0.58 | 52.61 | 4.37 | 84.49 |
| Last 5 | 12:40:50 | 1499.88 | 23.14 | 7.08 | 669.41 | 0.56 | 52.61 | 4.38 | 84.28 |
| Variance 0 | | | -0.06 | -0.02 | -0.52 | | | 0.03 | 0.05 |
| Variance 1 | | | 0.17 | -0.01 | -2.49 | | | -0.02 | 0.22 |
| Variance 2 | | | -0.31 | 0.00 | -1.89 | | | 0.00 | -0.20 |

Notes

Sampled @ 1245 (PZ 23)

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 13:43:32

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-25
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 63.2 ft

Pump placement from TOC 58.2 ft

Well Information:

Well ID PZ-25
Well diameter 2 in
Well Total Depth 63.19 ft
Screen Length 10 ft
Depth to Water 32.89 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.090053 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|---------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 13:20:26 | 600.03 | 23.09 | 7.10 | 499.49 | 0.52 | 33.37 | 0.76 | -111.01 |
| Last 5 | 13:25:26 | 900.03 | 22.88 | 7.09 | 498.30 | 0.52 | 33.37 | 0.51 | -120.16 |
| Last 5 | 13:30:26 | 1200.03 | 22.74 | 7.09 | 498.93 | 0.25 | 33.37 | 0.43 | -123.81 |
| Last 5 | 13:35:26 | 1500.03 | 22.71 | 7.09 | 499.76 | 0.67 | 33.37 | 0.37 | -126.37 |
| Last 5 | 13:40:26 | 1800.02 | 22.87 | 7.09 | 500.00 | 0.32 | 33.37 | 0.38 | -125.21 |
| Variance 0 | | | -0.14 | -0.00 | 0.63 | | | -0.09 | -3.66 |
| Variance 1 | | | -0.03 | 0.00 | 0.83 | | | -0.06 | -2.56 |
| Variance 2 | | | 0.16 | -0.01 | 0.25 | | | 0.00 | 1.16 |

Notes

PZ-25 sample time 1442

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 09:46:28

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ 31
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 61.6 ft

Pump placement from TOC 56.6 ft

Well Information:

Well ID PZ 31
Well diameter 2 in
Well Total Depth 61.60 ft
Screen Length 10 ft
Depth to Water 40.73 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.074608 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 09:22:56 | 300.17 | 21.30 | 7.39 | 427.88 | 1.28 | 41.73 | 4.79 | 90.60 |
| Last 5 | 09:27:56 | 600.03 | 21.21 | 7.42 | 428.20 | 0.76 | 41.73 | 4.82 | 82.71 |
| Last 5 | 09:32:56 | 900.02 | 21.15 | 7.43 | 428.17 | 0.78 | 41.73 | 4.82 | 82.84 |
| Last 5 | 09:37:56 | 1200.03 | 21.14 | 7.44 | 427.98 | 0.69 | 41.73 | 4.79 | 79.76 |
| Last 5 | 09:42:56 | 1499.90 | 21.21 | 7.44 | 428.30 | 0.77 | 41.73 | 4.78 | 77.48 |
| Variance 0 | | | -0.06 | 0.01 | -0.03 | | | -0.00 | 0.12 |
| Variance 1 | | | -0.01 | 0.01 | -0.19 | | | -0.02 | -3.07 |
| Variance 2 | | | 0.07 | -0.00 | 0.32 | | | -0.02 | -2.29 |

Notes

Sampled @ 0945

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 14:06:00

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-32
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 65.3 ft

Pump placement from TOC 60.3 ft

Well Information:

Well ID PZ-32
Well diameter 2 in
Well Total Depth 65.3 ft
Screen Length 10 ft
Depth to Water 39.64 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.110323 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 13:42:31 | 900.02 | 20.55 | 7.35 | 340.22 | 2.78 | 39.62 | 1.01 | 109.56 |
| Last 5 | 13:47:31 | 1200.02 | 20.56 | 7.35 | 339.60 | 2.32 | 39.62 | 0.83 | 110.29 |
| Last 5 | 13:52:31 | 1500.02 | 20.58 | 7.36 | 339.22 | 1.35 | 39.62 | 0.80 | 108.14 |
| Last 5 | 13:57:31 | 1800.03 | 20.56 | 7.36 | 338.67 | 0.83 | 39.62 | 0.79 | 106.95 |
| Last 5 | 14:02:31 | 2100.02 | 20.65 | 7.36 | 339.05 | 1.10 | 39.62 | 0.78 | 106.31 |
| Variance 0 | | | 0.02 | 0.00 | -0.38 | | | -0.03 | -2.15 |
| Variance 1 | | | -0.02 | 0.00 | -0.55 | | | -0.01 | -1.19 |
| Variance 2 | | | 0.09 | 0.00 | 0.38 | | | -0.02 | -0.63 |

Notes

PZ-32 sample time 1503

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-22 09:08:58

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-33
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 478733
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micro Bladder
Tubing Type LDPE
Tubing Diameter .25 in
Tubing Length 73.6 ft

Pump placement from TOC 68.6 ft

Well Information:

Well ID PZ-33
Well diameter 2 in
Well Total Depth 73.6 ft
Screen Length 10 ft
Depth to Water 51.23 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.190441 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 08:42:16 | 600.03 | 22.83 | 6.89 | 656.72 | 0.42 | 51.24 | 0.68 | 60.34 |
| Last 5 | 08:47:16 | 900.03 | 22.88 | 6.90 | 659.53 | 0.29 | 51.24 | 0.57 | 63.46 |
| Last 5 | 08:52:16 | 1200.03 | 23.01 | 6.92 | 658.54 | 0.35 | 51.24 | 0.49 | 63.44 |
| Last 5 | 08:57:16 | 1500.03 | 22.76 | 6.94 | 657.52 | 0.91 | 51.25 | 0.46 | 62.50 |
| Last 5 | 09:02:16 | 1800.02 | 22.61 | 6.94 | 661.91 | 1.76 | 51.25 | 0.45 | 61.23 |
| Variance 0 | | | 0.13 | 0.02 | -0.99 | | | -0.08 | -0.03 |
| Variance 1 | | | -0.25 | 0.01 | -1.03 | | | -0.03 | -0.93 |
| Variance 2 | | | -0.15 | 0.01 | 4.40 | | | -0.01 | -1.27 |

Notes

PZ-33 sample time 1004. DUP-02 collected.

Grab Samples

| Well ID | Sample Date | Purge Volume (liter) | Time Elapsed | DTW (feet, TOC) | Drawdown (feet) | Temperature (C) | pH (su) | Specific Conductance (uS/cm) | Turbidity (NTU) | DO (mg/L) | ORP (mV) |
|---------|-------------|----------------------|--------------|-----------------|-----------------|-----------------|---------|------------------------------|-----------------|-----------|----------|
| PZ-1D | 10/1/2019 | 8.0 | 2400 | 55.86 | 0 | 22.3 | 7.5 | 250.5 | 0.8 | 3.9 | 71.3 |
| PZ-2D | 10/2/2019 | 7.0 | 2100 | 39.42 | 0.01 | 20.2 | 9.0 | 132.8 | 3.2 | 2.6 | 97.4 |
| PZ-7D | 10/3/2019 | 5.0 | 1500 | 37.15 | 0 | 21.7 | 6.9 | 612.8 | 0.6 | 0.3 | 58.8 |
| PZ-14 | 10/2/2019 | 13.0 | 3900 | 46.72 | 0 | 22.6 | 7.0 | 524.5 | 0.5 | 4.1 | 63.9 |
| PZ-15 | 10/2/2019 | 7.0 | 2100 | 34.87 | 0.02 | 24.2 | 7.2 | 531.4 | 1.2 | 0.2 | -67.6 |
| PZ-16 | 10/2/2019 | 6.0 | 1801 | 38.13 | 0 | 21.7 | 7.2 | 472.9 | 0.6 | 1.1 | 63.4 |
| PZ-17 | 10/2/2019 | 7.0 | 2100 | 36.65 | 0 | 22.0 | 7.0 | 651.5 | 0.2 | 0.2 | -66.7 |
| PZ-18 | 10/3/2019 | 6.0 | 1800 | 33.97 | 0 | 22.2 | 6.8 | 682.3 | 0.5 | 0.2 | -2.2 |
| PZ-19 | 10/3/2019 | 6.0 | 1800 | 35.91 | 0.01 | 23.6 | 6.9 | 721.1 | 0.6 | 0.2 | 25.3 |
| PZ-23 | 9/10/2019 | 7.0 | 2101 | 52.54 | 0 | 22.2 | 6.8 | 740.6 | 0.3 | 4.3 | 92.9 |
| PZ-25 | 10/2/2019 | 6.0 | 1800 | 34.66 | 0.01 | 23.1 | 7.2 | 466.5 | 0.3 | 0.1 | -93.5 |
| PZ-31 | 10/2/2019 | 6.0 | 2400 | 42.56 | 0 | 21.1 | 7.1 | 458.9 | 0.5 | 4.9 | 63.1 |
| PZ-32 | 10/1/2019 | 6.0 | 1800 | 41.57 | 0 | 20.9 | 7.4 | 321.5 | 0.2 | 0.5 | 70.9 |
| PZ-33 | 10/3/2019 | 7.0 | 2100 | 52.54 | 0.02 | 21.9 | 7.0 | 618.2 | 0.2 | 0.3 | 20.0 |

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623917

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623917

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2623917

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623917001 | PZ-14+QC | Water | 10/02/19 12:30 | 10/03/19 09:30 |
| 2623917002 | PZ-25 | Water | 10/02/19 13:15 | 10/03/19 09:30 |
| 2623917003 | Dup-02 | Water | 10/02/19 00:00 | 10/03/19 09:30 |
| 2623917004 | PZ-15 | Water | 10/02/19 15:23 | 10/03/19 09:30 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623917

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2623917001 | PZ-14+QC | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623917002 | PZ-25 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623917003 | Dup-02 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623917004 | PZ-15 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623917

| Sample: PZ-14+QC | | Lab ID: 2623917001 | | Collected: 10/02/19 12:30 | Received: 10/03/19 09:30 | Matrix: Water | | | | |
|-------------------------------------|-----------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-36-0 | | |
| Arsenic | 0.00083J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-38-2 | | |
| Barium | 0.017 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-39-3 | | |
| Boron | 0.021J | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-42-8 | | |
| Calcium | 103 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 19:16 | 7440-70-2 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7439-98-7 | | |
| Selenium | 0.0015J | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 19:10 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 312 | mg/L | 10.0 | 10.0 | 1 | | 10/08/19 21:36 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 5.4 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 17:05 | 16887-00-6 | | |
| Fluoride | 0.056J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 17:05 | 16984-48-8 | | |
| Sulfate | 6.2 | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 17:05 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623917

| Sample: PZ-25 | | Lab ID: 2623917002 | | Collected: 10/02/19 13:15 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-36-0 | |
| Arsenic | 0.00063J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-38-2 | |
| Barium | 0.11 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-39-3 | |
| Boron | 0.21 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-42-8 | |
| Calcium | 92.3 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 19:27 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-47-3 | |
| Cobalt | 0.0017J | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7439-92-1 | |
| Lithium | 0.0074J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7782-49-2 | |
| Thallium | 0.00024J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 19:22 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 312 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:06 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 2.6 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 17:27 | 16887-00-6 | |
| Fluoride | 0.16J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 17:27 | 16984-48-8 | |
| Sulfate | 43.0 | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 17:27 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623917

| Sample: Dup-02 | | Lab ID: 2623917003 | | Collected: 10/02/19 00:00 | | Received: 10/03/19 09:30 | | Matrix: Water | | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-36-0 | | |
| Arsenic | 0.00045J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-38-2 | | |
| Barium | 0.12 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-39-3 | | |
| Boron | 0.21 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-42-8 | | |
| Calcium | 93.2 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 19:39 | 7440-70-2 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-47-3 | | |
| Cobalt | 0.0017J | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7439-92-1 | | |
| Lithium | 0.0078J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7782-49-2 | | |
| Thallium | 0.00024J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 19:33 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 315 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:06 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 2.6 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 17:48 | 16887-00-6 | | |
| Fluoride | 0.17J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 17:48 | 16984-48-8 | | |
| Sulfate | 42.9 | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 17:48 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623917

| Sample: PZ-15 | | Lab ID: 2623917004 | | Collected: 10/02/19 15:23 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-38-2 | |
| Barium | 0.049 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-39-3 | |
| Boron | 0.17 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-42-8 | |
| Calcium | 101 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 20:02 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7439-92-1 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7782-49-2 | |
| Thallium | 0.00016J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 19:56 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 355 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:06 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 8.0 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 18:09 | 16887-00-6 | |
| Fluoride | 0.075J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 18:09 | 16984-48-8 | |
| Sulfate | 83.0 | mg/L | 5.0 | 0.085 | 5 | | 10/10/19 13:47 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623917

QC Batch: 36528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623917001, 2623917002, 2623917003, 2623917004

METHOD BLANK: 165101 Matrix: Water
Associated Lab Samples: 2623917001, 2623917002, 2623917003, 2623917004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/08/19 17:42 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 10/08/19 17:42 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/08/19 17:42 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/08/19 17:42 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/08/19 17:42 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 10/08/19 17:42 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/08/19 17:42 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/08/19 17:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/08/19 17:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/08/19 17:42 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/08/19 17:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/08/19 17:42 | |

LABORATORY CONTROL SAMPLE: 165102

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 165104

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2623873013 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 103 | 75-125 | 5 | 20 | | |
| Arsenic | mg/L | 0.00071J | 0.1 | 0.1 | 0.095 | 0.10 | 94 | 100 | 75-125 | 6 | 20 | | |
| Barium | mg/L | 0.071 | 0.1 | 0.1 | 0.17 | 0.17 | 94 | 101 | 75-125 | 4 | 20 | | |
| Boron | mg/L | 0.018J | 1 | 1 | 0.99 | 1.0 | 97 | 102 | 75-125 | 5 | 20 | | |
| Calcium | mg/L | 37.2 | 1 | 1 | 35.7 | 37.8 | -144 | 63 | 75-125 | 6 | 20 | M6 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623917

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 | | 165104 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
|------------|-------|---|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| | | 2623873013 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.097 | 91 | 97 | 75-125 | 6 | 20 | | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.093 | 0.098 | 93 | 97 | 75-125 | 4 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 5 | 20 | | |
| Lithium | mg/L | 0.018J | 0.1 | 0.1 | 0.12 | 0.12 | 100 | 103 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.10 | 95 | 103 | 75-125 | 7 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.099 | 93 | 98 | 75-125 | 5 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 4 | 20 | | |

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623917

| | |
|------------------------------------|--|
| QC Batch: 36680 | Analysis Method: SM 2540C |
| QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids |
| Associated Lab Samples: 2623917001 | |

LABORATORY CONTROL SAMPLE: 165650

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 398 | 100 | 84-108 | |

SAMPLE DUPLICATE: 165651

| Parameter | Units | 2623876009 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 25.0 | 25.0 | 0 | 10 | |

SAMPLE DUPLICATE: 165652

| Parameter | Units | 2623879002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 103 | 98.0 | 5 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623917

QC Batch: 36765 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2623917002, 2623917003, 2623917004

LABORATORY CONTROL SAMPLE: 166031

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 409 | 102 | 84-108 | |

SAMPLE DUPLICATE: 166032

| Parameter | Units | 2623917002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 312 | 305 | 2 | 10 | |

SAMPLE DUPLICATE: 166033

| Parameter | Units | 2623927002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 84.0 | 95.0 | 12 | 10 | D6 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623917

QC Batch: 36695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623917001, 2623917002, 2623917003, 2623917004

METHOD BLANK: 165707 Matrix: Water
Associated Lab Samples: 2623917001, 2623917002, 2623917003, 2623917004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | 0.030J | 1.0 | 0.024 | 10/09/19 15:19 | |
| Fluoride | mg/L | ND | 0.30 | 0.029 | 10/09/19 15:19 | |
| Sulfate | mg/L | ND | 1.0 | 0.017 | 10/09/19 15:19 | |

LABORATORY CONTROL SAMPLE: 165708

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Fluoride | mg/L | 10 | 10.7 | 107 | 90-110 | |
| Sulfate | mg/L | 10 | 10.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165709 165710

| Parameter | Units | 2623903001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 118 | 10 | 10 | 91.0 | 91.1 | -269 | -269 | 90-110 | 0 | 15 | |
| Fluoride | mg/L | 1.1 | 10 | 10 | 11.2 | 11.2 | 101 | 101 | 90-110 | 0 | 15 | |
| Sulfate | mg/L | 47.3 | 10 | 10 | 52.5 | 52.5 | 52 | 53 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 165711

| Parameter | Units | 2623921001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.3 | 10 | 14.4 | 101 | 90-110 | |
| Fluoride | mg/L | 0.057J | 10 | 10.7 | 106 | 90-110 | |
| Sulfate | mg/L | 1.6 | 10 | 11.9 | 104 | 90-110 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623917

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2623917

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2623917001 | PZ-14+QC | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623917002 | PZ-25 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623917003 | Dup-02 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623917004 | PZ-15 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623917001 | PZ-14+QC | SM 2540C | 36680 | | |
| 2623917002 | PZ-25 | SM 2540C | 36765 | | |
| 2623917003 | Dup-02 | SM 2540C | 36765 | | |
| 2623917004 | PZ-15 | SM 2540C | 36765 | | |
| 2623917001 | PZ-14+QC | EPA 300.0 | 36695 | | |
| 2623917002 | PZ-25 | EPA 300.0 | 36695 | | |
| 2623917003 | Dup-02 | EPA 300.0 | 36695 | | |
| 2623917004 | PZ-15 | EPA 300.0 | 36695 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 8121 93945429

WO#: **2623917**

PM: **BM** Due Date: **10/10/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.5 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/03/19

Temp should be above freezing to 6°C Comments:

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report replaces the report issued on September 19, 2019. This report was revised to correct the Fluoride reporting limit as 0.3 mg/L in accordance with GPC contract specifications. No other changes have been made to this report

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622942

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622942

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---------------|------------------|---------------|-----------------------|----------------------|
| 2622942001 | EB-01 | Water | 09/10/19 08:10 | 09/11/19 09:00 |
| 2622942002 | PZ-23 | Water | 09/10/19 09:47 | 09/11/19 09:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|------------------------|----------|-------------------|------------|
| 2622942001 | EB-01 | EPA 6020B | CSW | 12 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |
| 2622942002 | PZ-23 | EPA 6020B | CSW | 12 | PASI-GA |
| | | SM 2540C | ALW | 1 | PASI-GA |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | PASI-A |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

| Sample: EB-01 | | Lab ID: 2622942001 | | Collected: 09/10/19 08:10 | | Received: 09/11/19 09:00 | | Matrix: Water | | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-36-0 | | |
| Arsenic | 0.00058J | mg/L | 0.0050 | 0.00035 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-39-3 | | |
| Boron | ND | mg/L | 0.040 | 0.0049 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-42-8 | | |
| Calcium | ND | mg/L | 0.10 | 0.011 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-70-2 | | |
| Chromium | 0.00053J | mg/L | 0.010 | 0.00039 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 09/12/19 14:21 | 09/16/19 19:26 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 09/16/19 13:00 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 09/14/19 15:12 | 16887-00-6 | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 09/14/19 15:12 | 16984-48-8 | | |
| Sulfate | 0.64J | mg/L | 1.0 | 0.50 | 1 | | 09/14/19 15:12 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

| Sample: PZ-23 | | Lab ID: 2622942002 | | Collected: 09/10/19 09:47 | | Received: 09/11/19 09:00 | | Matrix: Water | | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-36-0 | | |
| Arsenic | 0.00036J | mg/L | 0.0050 | 0.00035 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-38-2 | | |
| Barium | 0.029 | mg/L | 0.010 | 0.00049 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-39-3 | | |
| Boron | 0.15 | mg/L | 0.040 | 0.0049 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-42-8 | | |
| Calcium | 137 | mg/L | 5.0 | 0.55 | 50 | 09/12/19 14:21 | 09/16/19 19:37 | 7440-70-2 | | |
| Chromium | 0.0044J | mg/L | 0.010 | 0.00039 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7439-98-7 | | |
| Selenium | 0.0018J | mg/L | 0.010 | 0.0013 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 09/12/19 14:21 | 09/16/19 19:31 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 420 | mg/L | 10.0 | 10.0 | 1 | | 09/16/19 13:00 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | |
| Chloride | 3.8 | mg/L | 1.0 | 0.60 | 1 | | 09/14/19 15:27 | 16887-00-6 | | |
| Fluoride | ND | mg/L | 0.30 | 0.050 | 1 | | 09/14/19 15:27 | 16984-48-8 | | |
| Sulfate | 45.1 | mg/L | 1.0 | 0.50 | 1 | | 09/14/19 15:27 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

QC Batch: 35185 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622942001, 2622942002

METHOD BLANK: 158382 Matrix: Water
Associated Lab Samples: 2622942001, 2622942002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 09/16/19 17:20 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 09/16/19 17:20 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 09/16/19 17:20 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 09/16/19 17:20 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 09/16/19 17:20 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 09/16/19 17:20 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 09/16/19 17:20 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 09/16/19 17:20 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 09/16/19 17:20 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 09/16/19 17:20 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 09/16/19 17:20 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 09/16/19 17:20 | |

LABORATORY CONTROL SAMPLE: 158383

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Barium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Boron | mg/L | 1 | 0.96 | 96 | 80-120 | |
| Calcium | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 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 | 0.098 | 98 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 158384 158385

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2622907001 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | 0.00079J | 0.1 | 0.1 | 0.097 | 0.10 | 97 | 99 | 75-125 | 2 | 20 | |
| Arsenic | mg/L | 0.00043J | 0.1 | 0.1 | 0.098 | 0.099 | 97 | 99 | 75-125 | 2 | 20 | |
| Barium | mg/L | 0.015 | 0.1 | 0.1 | 0.11 | 0.11 | 96 | 98 | 75-125 | 2 | 20 | |
| Boron | mg/L | ND | 1 | 1 | 0.95 | 0.98 | 95 | 98 | 75-125 | 4 | 20 | |
| Calcium | mg/L | 11.3 | 1 | 1 | 12.5 | 12.5 | 121 | 115 | 75-125 | 0 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622942

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 158384 | | 158385 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| | | 2622907001 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 100 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 2 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.097 | 95 | 97 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.10 | 95 | 100 | 75-125 | 5 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.10 | 99 | 100 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.098 | 94 | 98 | 75-125 | 4 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.098 | 97 | 98 | 75-125 | 1 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

QC Batch: 35360 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2622942001, 2622942002

LABORATORY CONTROL SAMPLE: 159298

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 399 | 100 | 84-108 | |

SAMPLE DUPLICATE: 159299

| Parameter | Units | 2622885003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 2560 | 2560 | 0 | 10 | |

SAMPLE DUPLICATE: 159300

| Parameter | Units | 2623137006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 10 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

QC Batch: 497758 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622942001, 2622942002

METHOD BLANK: 2680201 Matrix: Water
Associated Lab Samples: 2622942001, 2622942002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 09/14/19 11:57 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 09/14/19 11:57 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 09/14/19 11:57 | |

LABORATORY CONTROL SAMPLE: 2680202

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 47.5 | 95 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.3 | 92 | 90-110 | |
| Sulfate | mg/L | 50 | 47.1 | 94 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2680203 2680204

| Parameter | Units | 2622846001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 150 | 50 | 50 | 193 | 192 | 84 | 83 | 90-110 | 0 | 10 | M1 |
| Fluoride | mg/L | 1.1 | 2.5 | 2.5 | 3.3 | 3.3 | 88 | 88 | 90-110 | 0 | 10 | M1 |
| Sulfate | mg/L | 9.4 | 50 | 50 | 55.8 | 55.0 | 93 | 91 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2680205 2680206

| Parameter | Units | 92444906011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 1.5 | 50 | 50 | 54.8 | 52.1 | 106 | 101 | 90-110 | 5 | 10 | |
| Fluoride | mg/L | 0.055J | 2.5 | 2.5 | 2.7 | 2.6 | 105 | 101 | 90-110 | 4 | 10 | |
| Sulfate | mg/L | 0.59J | 50 | 50 | 52.5 | 50.2 | 104 | 99 | 90-110 | 4 | 10 | |

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QUALIFIERS

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622942

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622942

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|------------------------|----------|-------------------|------------------|
| 2622942001 | EB-01 | EPA 3005A | 35185 | EPA 6020B | 35214 |
| 2622942002 | PZ-23 | EPA 3005A | 35185 | EPA 6020B | 35214 |
| 2622942001 | EB-01 | SM 2540C | 35360 | | |
| 2622942002 | PZ-23 | SM 2540C | 35360 | | |
| 2622942001 | EB-01 | EPA 300.0 Rev 2.1 1993 | 497758 | | |
| 2622942002 | PZ-23 | EPA 300.0 Rev 2.1 1993 | 497758 | | |

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road
 Atlanta, GA 30339
 Email: jbraham@southernco.com
 Phone: (404)506-7239
 Requested Due Date: *standard*

Section B
 Required Project Information:
 Report To: Jolu Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell CGR
 Project #:

Section C
 Invoice Information:
 Attention: SCSinvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.mcdaniel@pacelabs.com
 Pace Profile #: 333.1.2

Regulatory Agency:
 State / Location: GA

Page: 1 Of 1

| ITEM # | MATRIX | MATRIX CODE | COLLECTED | | SAMP. TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | | | ANALYSES TEST | | | | REQUESTED ANALYSIS FILTERED (Y/N) | | | | | | | | | | |
|--------|---------------------|-------------|------------|----------|--------------------------|-----------------|---------------|-------|------|-----|---------------|--------|----------|-------|-----------------------------------|----------------|-------------------------|-----------------|-------------------------|--|--|--|--|--|--|
| | | | START DATE | END DATE | | | UNPRESERVED | H2SO4 | HNO3 | HCl | NaOH | Na2SO3 | Methanol | Other | Y/N | Radium 226/228 | App III & App IV Metals | TDS, Cl, F, SO4 | Residual Chlorine (Y/N) | | | | | | |
| 1 | DRINKING WATER | DW | 9/10/19 | 0810 | | 4 | | X | | | | | | | X | X | | | | | | | | | |
| 2 | WASTE WATER | WW | 9/10/19 | 0947 | | 4 | | X | | | | | | | X | X | | | | | | | | | |
| 3 | WASTE WATER PRODUCT | WP | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SOIL/SOLID | SL | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | OIL | OL | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | WIPE | WP | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | AIR | AR | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | OTHER | OT | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | TISSUE | TS | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |

WO#: 2622942

2622942

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Intact Samples (Y/N) |
|---|-------------------------------|---------|------|---------------------------|---------|------|-------------------|-----------|-----------------------|-----------------------------|----------------------|
| *For App III analyses: B, Co, Cl, F, SO4, TDS | Daniel Howard Wood | 9/10/19 | 1745 | M. Dalman | 9/11/19 | 0900 | | | | | |
| *For App II metals only: Sb, As, Cr, Co, Pb, Li, Mo, Se, Ti, Radium 226+228 | | | | | | | | | | | |
| | | | | | | | | 1.2 | | | |
| | | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: *Daniel Howard*
 DATE Signed: 9/10/19

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623919

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623919

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2623919

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623919001 | PZ-1D | Water | 10/01/19 16:30 | 10/03/19 09:30 |
| 2623919002 | PZ-32 | Water | 10/01/19 16:10 | 10/03/19 09:30 |
| 2623919003 | EB-01 | Water | 10/02/19 09:15 | 10/03/19 09:30 |
| 2623919004 | PZ-2D | Water | 10/02/19 10:38 | 10/03/19 09:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell
Pace Project No.: 2623919

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2623919001 | PZ-1D | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623919002 | PZ-32 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623919003 | EB-01 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623919004 | PZ-2D | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623919

| Sample: PZ-1D | | Lab ID: 2623919001 | | Collected: 10/01/19 16:30 | | Received: 10/03/19 09:30 | | Matrix: Water | | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | 0.00076J | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-38-2 | | |
| Barium | 0.016 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-39-3 | | |
| Boron | 0.0064J | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-42-8 | | |
| Calcium | 46.8 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 20:13 | 7440-70-2 | | |
| Chromium | 0.0022J | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7439-93-2 | | |
| Molybdenum | 0.0010J | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 20:08 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 146 | mg/L | 10.0 | 10.0 | 1 | | 10/08/19 21:35 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 3.6 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 18:31 | 16887-00-6 | | |
| Fluoride | 0.062J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 18:31 | 16984-48-8 | | |
| Sulfate | 2.8 | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 18:31 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623919

| Sample: PZ-32 | | Lab ID: 2623919002 | | Collected: 10/01/19 16:10 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|---------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
| | | | Limit | MDL | DF | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-38-2 | |
| Barium | 0.015 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-39-3 | |
| Boron | 0.011J | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-42-8 | |
| Calcium | 64.3 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 20:25 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 20:19 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 187 | mg/L | 10.0 | 10.0 | 1 | | 10/08/19 21:35 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 3.1 | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 18:52 | 16887-00-6 | |
| Fluoride | 0.042J | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 18:52 | 16984-48-8 | |
| Sulfate | 2.2 | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 18:52 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623919

| Sample: EB-01 | | Lab ID: 2623919003 | | Collected: 10/02/19 09:15 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-36-0 | |
| Arsenic | 0.0013J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-38-2 | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-39-3 | |
| Boron | ND | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-42-8 | |
| Calcium | 0.018J | mg/L | 0.10 | 0.011 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 20:30 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 0.036J | mg/L | 1.0 | 0.024 | 1 | | 10/09/19 19:13 | 16887-00-6 | B |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 10/09/19 19:13 | 16984-48-8 | |
| Sulfate | 0.059J | mg/L | 1.0 | 0.017 | 1 | | 10/09/19 19:13 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell

Pace Project No.: 2623919

| Sample: PZ-2D | | Lab ID: 2623919004 | | Collected: 10/02/19 10:38 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00042J | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-36-0 | |
| Arsenic | 0.0022J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-38-2 | |
| Barium | 0.0046J | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-39-3 | |
| Boron | 0.011J | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-42-8 | |
| Calcium | 21.0 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 20:42 | 7440-70-2 | |
| Chromium | 0.0049J | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-48-4 | |
| Lead | 0.000047J | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7439-92-1 | |
| Lithium | 0.0016J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 20:36 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 95.0 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 2.7 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 06:42 | 16887-00-6 | |
| Fluoride | 0.11J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 06:42 | 16984-48-8 | |
| Sulfate | 4.1 | mg/L | 1.0 | 0.017 | 1 | | 10/10/19 06:42 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623919

QC Batch: 36528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623919001, 2623919002, 2623919003, 2623919004

METHOD BLANK: 165101 Matrix: Water
Associated Lab Samples: 2623919001, 2623919002, 2623919003, 2623919004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/08/19 17:42 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 10/08/19 17:42 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/08/19 17:42 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/08/19 17:42 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/08/19 17:42 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 10/08/19 17:42 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/08/19 17:42 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/08/19 17:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/08/19 17:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/08/19 17:42 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/08/19 17:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/08/19 17:42 | |

LABORATORY CONTROL SAMPLE: 165102

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 165104

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2623873013 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | 0.00071J | 0.1 | 0.1 | 0.095 | 0.10 | 94 | 100 | 75-125 | 6 | 20 | |
| Barium | mg/L | 0.071 | 0.1 | 0.1 | 0.17 | 0.17 | 94 | 101 | 75-125 | 4 | 20 | |
| Boron | mg/L | 0.018J | 1 | 1 | 0.99 | 1.0 | 97 | 102 | 75-125 | 5 | 20 | |
| Calcium | mg/L | 37.2 | 1 | 1 | 35.7 | 37.8 | -144 | 63 | 75-125 | 6 | 20 | M6 |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623919

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 | | 165104 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 2623873013 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.097 | 91 | 97 | 75-125 | 6 | 20 | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.093 | 0.098 | 93 | 97 | 75-125 | 4 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 5 | 20 | |
| Lithium | mg/L | 0.018J | 0.1 | 0.1 | 0.12 | 0.12 | 100 | 103 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.10 | 95 | 103 | 75-125 | 7 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.099 | 93 | 98 | 75-125 | 5 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 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.

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623919

QC Batch: 36680

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2623919001, 2623919002

LABORATORY CONTROL SAMPLE: 165650

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 398 | 100 | 84-108 | |

SAMPLE DUPLICATE: 165651

| Parameter | Units | 2623876009 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 25.0 | 25.0 | 0 | 10 | |

SAMPLE DUPLICATE: 165652

| Parameter | Units | 2623879002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 103 | 98.0 | 5 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623919

QC Batch: 36765

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2623919003, 2623919004

LABORATORY CONTROL SAMPLE: 166031

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 409 | 102 | 84-108 | |

SAMPLE DUPLICATE: 166032

| Parameter | Units | 2623917002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 312 | 305 | 2 | 10 | |

SAMPLE DUPLICATE: 166033

| Parameter | Units | 2623927002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 84.0 | 95.0 | 12 | 10 | D6 |

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623919

QC Batch: 36695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623919001, 2623919002, 2623919003, 2623919004

METHOD BLANK: 165707 Matrix: Water
Associated Lab Samples: 2623919001, 2623919002, 2623919003, 2623919004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | 0.030J | 1.0 | 0.024 | 10/09/19 15:19 | |
| Fluoride | mg/L | ND | 0.30 | 0.029 | 10/09/19 15:19 | |
| Sulfate | mg/L | ND | 1.0 | 0.017 | 10/09/19 15:19 | |

LABORATORY CONTROL SAMPLE: 165708

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Fluoride | mg/L | 10 | 10.7 | 107 | 90-110 | |
| Sulfate | mg/L | 10 | 10.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165709 165710

| Parameter | Units | 2623903001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 118 | 10 | 10 | 91.0 | 91.1 | -269 | -269 | 90-110 | 0 | 15 | |
| Fluoride | mg/L | 1.1 | 10 | 10 | 11.2 | 11.2 | 101 | 101 | 90-110 | 0 | 15 | |
| Sulfate | mg/L | 47.3 | 10 | 10 | 52.5 | 52.5 | 52 | 53 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 165711

| Parameter | Units | 2623921001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.3 | 10 | 14.4 | 101 | 90-110 | |
| Fluoride | mg/L | 0.057J | 10 | 10.7 | 106 | 90-110 | |
| Sulfate | mg/L | 1.6 | 10 | 11.9 | 104 | 90-110 | |

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623919

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623919

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2623919001 | PZ-1D | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623919002 | PZ-32 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623919003 | EB-01 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623919004 | PZ-2D | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623919001 | PZ-1D | SM 2540C | 36680 | | |
| 2623919002 | PZ-32 | SM 2540C | 36680 | | |
| 2623919003 | EB-01 | SM 2540C | 36765 | | |
| 2623919004 | PZ-2D | SM 2540C | 36765 | | |
| 2623919001 | PZ-1D | EPA 300.0 | 36695 | | |
| 2623919002 | PZ-32 | EPA 300.0 | 36695 | | |
| 2623919003 | EB-01 | EPA 300.0 | 36695 | | |
| 2623919004 | PZ-2D | EPA 300.0 | 36695 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Mamer Road, Atlanta, GA 30339
 Email: jabraham@southernco.com
 Phone: (404)506-7239
 Requested Due Date: Standard

Section B
Required Project Information:
 Report To: Jopi Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS 0582775
 Project Name: Plant Mitchell CCR
 Project #: 61232160170

Section C
Invoice Information:
 Attention: SCSinvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.mcdaniel@pacelabs.com
 Pace Profile #: 333.1.2
 State / Location: GA

Page: | Of |

| ITEM | MATRIX CODE (see valid codes to left) | COLLECTED | | SAMPLE TYPE (G-GRAB C-COMP) | SAMPLE TEMP AT COLLECTION | | # OF CONTAINERS | PRESERVATIVES | | | | | | | ANALYSES TEST | Y/N | Radium 226/228 | App. III & App. IV Metals | TDS, Cl, F, SO4 | Residual Chlorine (Y/N) |
|------|--|------------|------------|-----------------------------|---------------------------|----------|-----------------|---------------|------|-----|------|---------|----------|-------|---------------|-----|----------------|---------------------------|-----------------|-------------------------|
| | | START DATE | START TIME | | END DATE | END TIME | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | | | | |
| 1 | WG | 10/1/19 | 1630 | | | | 4 | X | | | | | | | | X | | | | |
| 2 | WG | 10/1/19 | 1610 | | | | 4 | X | | | | | | | | X | | | | |
| 3 | WTG | 10/2/19 | 1015 | | | | 4 | X | | | | | | | | X | | | | |
| 4 | WTG | 10/4/19 | 1038 | | | | 4 | X | | | | | | | | X | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |

WO#: 2623919



2623919

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | | | | | |
|---|-------------------------------|---------|------|---------------------------|---------|------|-------------------|-----------|--------------|--------------|----------------------|--|--|--|
| | | | | | | | Received on | Ice (Y/N) | Sealed (Y/N) | Cooler (Y/N) | Samples Intact (Y/N) | | | |
| App III metals: B Ca | Daniel Howard / Wood | 10/2/19 | 1800 | Daniel Howard | 10/3/19 | 0930 | | | | | | | | |
| App IV metals: Sb, As, Ba, Cr, Co, Pb, Ni, Mo, Se, Tl | Daniel Howard / Wood | | | | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE: Daniel Howard
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: Daniel Howard
 DATE Signed: 10/2/19

Sample Condition Upon Receipt



Client Name: GIA POWER

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 81219394 5418

WO# : 2623919

PM: BM Due Date: 10/10/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/03/19 MR

Temp should be above freezing to 6°C

Comments:

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | _____ | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623953

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2623953

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2623953

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623953001 | PZ-18+QC | Water | 10/03/19 09:40 | 10/04/19 09:05 |
| 2623953002 | PZ-7D | Water | 10/03/19 11:10 | 10/04/19 09:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623953

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2623953001 | PZ-18+QC | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623953002 | PZ-7D | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623953

| Sample: PZ-18+QC | | Lab ID: 2623953001 | | Collected: 10/03/19 09:40 | | Received: 10/04/19 09:05 | | Matrix: Water | | |
|-------------------------------------|----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-38-2 | | |
| Barium | 0.025 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-39-3 | | |
| Boron | 0.35 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-42-8 | | |
| Calcium | 139 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 21:51 | 7440-70-2 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7439-92-1 | | |
| Lithium | 0.0027J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 21:45 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 464 | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 7.0 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 09:11 | 16887-00-6 | | |
| Fluoride | 0.043J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 09:11 | 16984-48-8 | | |
| Sulfate | 95.8 | mg/L | 10.0 | 0.17 | 10 | | 10/10/19 16:45 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623953

| Sample: PZ-7D | | Lab ID: 2623953002 | | Collected: 10/03/19 11:10 | | Received: 10/04/19 09:05 | | Matrix: Water | |
|-------------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00029J | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-38-2 | |
| Barium | 0.0070J | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-39-3 | |
| Boron | 0.24 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-42-8 | |
| Calcium | 127 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 22:14 | 7440-70-2 | |
| Chromium | 0.00040J | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7439-92-1 | |
| Lithium | 0.0032J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7439-98-7 | |
| Selenium | 0.0017J | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7782-49-2 | |
| Thallium | 0.000078J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 22:08 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 405 | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 5.9 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 09:33 | 16887-00-6 | |
| Fluoride | 0.041J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 09:33 | 16984-48-8 | |
| Sulfate | 59.6 | mg/L | 2.0 | 0.034 | 2 | | 10/10/19 17:08 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623953

QC Batch: 36528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623953001, 2623953002

METHOD BLANK: 165101 Matrix: Water
Associated Lab Samples: 2623953001, 2623953002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/08/19 17:42 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 10/08/19 17:42 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/08/19 17:42 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/08/19 17:42 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/08/19 17:42 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 10/08/19 17:42 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/08/19 17:42 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/08/19 17:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/08/19 17:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/08/19 17:42 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/08/19 17:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/08/19 17:42 | |

LABORATORY CONTROL SAMPLE: 165102

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 165104

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2623873013 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | 0.00071J | 0.1 | 0.1 | 0.095 | 0.10 | 94 | 100 | 75-125 | 6 | 20 | |
| Barium | mg/L | 0.071 | 0.1 | 0.1 | 0.17 | 0.17 | 94 | 101 | 75-125 | 4 | 20 | |
| Boron | mg/L | 0.018J | 1 | 1 | 0.99 | 1.0 | 97 | 102 | 75-125 | 5 | 20 | |
| Calcium | mg/L | 37.2 | 1 | 1 | 35.7 | 37.8 | -144 | 63 | 75-125 | 6 | 20 | M6 |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623953

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 | | 165104 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 2623873013 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.097 | 91 | 97 | 75-125 | 6 | 20 | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.093 | 0.098 | 93 | 97 | 75-125 | 4 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 5 | 20 | |
| Lithium | mg/L | 0.018J | 0.1 | 0.1 | 0.12 | 0.12 | 100 | 103 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.10 | 95 | 103 | 75-125 | 7 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.099 | 93 | 98 | 75-125 | 5 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 4 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623953

QC Batch: 36798

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2623953001, 2623953002

LABORATORY CONTROL SAMPLE: 166239

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 403 | 101 | 84-108 | |

SAMPLE DUPLICATE: 166240

| Parameter | Units | 2623927003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 86.0 | 90.0 | 5 | 10 | |

SAMPLE DUPLICATE: 166241

| Parameter | Units | 2623981001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 311 | 321 | 3 | 10 | |

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623953

QC Batch: 36695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623953001, 2623953002

METHOD BLANK: 165707 Matrix: Water
Associated Lab Samples: 2623953001, 2623953002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | 0.030J | 1.0 | 0.024 | 10/09/19 15:19 | |
| Fluoride | mg/L | ND | 0.30 | 0.029 | 10/09/19 15:19 | |
| Sulfate | mg/L | ND | 1.0 | 0.017 | 10/09/19 15:19 | |

LABORATORY CONTROL SAMPLE: 165708

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Fluoride | mg/L | 10 | 10.7 | 107 | 90-110 | |
| Sulfate | mg/L | 10 | 10.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165709 165710

| Parameter | Units | 2623903001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 118 | 10 | 10 | 91.0 | 91.1 | -269 | -269 | 90-110 | 0 | 15 | |
| Fluoride | mg/L | 1.1 | 10 | 10 | 11.2 | 11.2 | 101 | 101 | 90-110 | 0 | 15 | |
| Sulfate | mg/L | 47.3 | 10 | 10 | 52.5 | 52.5 | 52 | 53 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 165711

| Parameter | Units | 2623921001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.3 | 10 | 14.4 | 101 | 90-110 | |
| Fluoride | mg/L | 0.057J | 10 | 10.7 | 106 | 90-110 | |
| Sulfate | mg/L | 1.6 | 10 | 11.9 | 104 | 90-110 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623953

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623953

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2623953001 | PZ-18+QC | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623953002 | PZ-7D | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623953001 | PZ-18+QC | SM 2540C | 36798 | | |
| 2623953002 | PZ-7D | SM 2540C | 36798 | | |
| 2623953001 | PZ-18+QC | EPA 300.0 | 36695 | | |
| 2623953002 | PZ-7D | EPA 300.0 | 36695 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road, Atlanta, GA 30339
 Email: jbraham@southernco.com
 Phone: (404) 506-7239 Fax: []
 Requested Due Date: Standard

Section B
Required Project Information:
 Report To: John Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell CCR
 Project #: 6122160170

Section C
Invoice Information:
 Attention: SCSInvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.medlarial@pacelabs.com
 Pace Profile #: 333.1.2
 Regulatory Agency:
 State / Location: GA

Page: 1 of 1

| ITEM # | MATRIX CODE Drinking Water: DW Waste Water: WW Waste Water Product: WP Soil/Sediment: SL Coil: CL Air: AR Other: OT Tissue: TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Y/N | Analyses Test | Radium 226/228 | App. III & App. IV Metals | TDS, Cl, F, SO4 | Residual Chroma (Y/N) |
|--------|--|---------------------------------------|-----------------------------|------------|------------|---------------------------|-----------------|---------------|----------|-------|------|-----|------|---------|-----|---------------|----------------|---------------------------|-----------------|-----------------------|
| | | | | START DATE | START TIME | | | END DATE | END TIME | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | | | | | | |
| 1 | | MG | G | 10/31/19 | 0940 | | 2 | X | | | | | | | | X | X | X | | |
| 2 | | MG | G | 10/31/19 | 1110 | | 4 | X | | | | | | | | X | X | X | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |

NO#: 2623953

ADDITIONAL COMMENTS:
 App III metals: R, Ca
 App IV metals: Sb, As, Be, Cr, Co, Pb, Mo, Se, Tl

RELINQUISHED BY / AFFILIATION: Daniel L. Howard / Wood
DATE: 10/31/19
TIME: 1630

ACCEPTED BY / AFFILIATION: M. A. Lanson
DATE: 10/31/19
TIME: 0905

TEMP in C: 1.0
Received on: F
Ice (Y/N): F
Sealed (Y/N): F
Cooler (Y/N): F
Samples Intact (Y/N): F

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: Daniel Howard
 DATE Signed: 10/31/19



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

WO#: **2623953**

PM: **BM** Due Date: **10/11/19**

CLIENT: **GAPower-CCR**

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 23 Type of Ice: Wet Blue None

Cooler Temperature 1.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments: _____

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 10/04/19

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | _____ | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623921

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2623921

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2623921

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623921001 | PZ-31 | Water | 10/02/19 10:25 | 10/03/19 09:30 |
| 2623921002 | PZ-16 | Water | 10/02/19 13:55 | 10/03/19 09:30 |
| 2623921003 | PZ-17 | Water | 10/02/19 15:30 | 10/03/19 09:30 |
| 2623921004 | Dup-01 | Water | 10/02/19 00:00 | 10/03/19 09:30 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell
Pace Project No.: 2623921

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2623921001 | PZ-31 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623921002 | PZ-16 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623921003 | PZ-17 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623921004 | Dup-01 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell

Pace Project No.: 2623921

| Sample: PZ-31 | | Lab ID: 2623921001 | | Collected: 10/02/19 10:25 | Received: 10/03/19 09:30 | Matrix: Water | | | | |
|-------------------------------------|------------------|--|--------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-38-2 | | |
| Barium | 0.0067J | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-39-3 | | |
| Boron | 0.0084J | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-42-8 | | |
| Calcium | 95.5 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 21:05 | 7440-70-2 | | |
| Chromium | 0.00043J | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-48-4 | | |
| Lead | 0.000081J | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 20:59 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 263 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 4.3 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 07:04 | 16887-00-6 | | |
| Fluoride | 0.057J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 07:04 | 16984-48-8 | | |
| Sulfate | 1.6 | mg/L | 1.0 | 0.017 | 1 | | 10/10/19 07:04 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623921

| Sample: PZ-16 | | Lab ID: 2623921002 | | Collected: 10/02/19 13:55 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|------------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-38-2 | |
| Barium | 0.038 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-39-3 | |
| Boron | 0.19 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-42-8 | |
| Calcium | 89.1 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 21:16 | 7440-70-2 | |
| Chromium | 0.00044J | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-48-4 | |
| Lead | 0.000081J | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7782-49-2 | |
| Thallium | 0.000053J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 21:11 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 284 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 7.7 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 07:46 | 16887-00-6 | |
| Fluoride | 0.053J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 07:46 | 16984-48-8 | |
| Sulfate | 48.5 | mg/L | 1.0 | 0.017 | 1 | | 10/10/19 07:46 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623921

| Sample: PZ-17 | | Lab ID: 2623921003 | | Collected: 10/02/19 15:30 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-38-2 | |
| Barium | 0.074 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-39-3 | |
| Boron | 0.28 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-42-8 | |
| Calcium | 115 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 21:28 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7439-92-1 | |
| Lithium | 0.0024J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7782-49-2 | |
| Thallium | 0.00016J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 21:22 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 415 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 7.9 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 08:08 | 16887-00-6 | |
| Fluoride | 0.063J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 08:08 | 16984-48-8 | |
| Sulfate | 104 | mg/L | 5.0 | 0.085 | 5 | | 10/10/19 18:15 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623921

| Sample: Dup-01 | | Lab ID: 2623921004 | | Collected: 10/02/19 00:00 | | Received: 10/03/19 09:30 | | Matrix: Water | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
| | | | Limit | MDL | DF | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-38-2 | |
| Barium | 0.083 | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-39-3 | |
| Boron | 0.30 | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-42-8 | |
| Calcium | 125 | mg/L | 5.0 | 0.55 | 50 | 10/05/19 16:23 | 10/08/19 21:39 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7439-92-1 | |
| Lithium | 0.0026J | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7782-49-2 | |
| Thallium | 0.00017J | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 21:33 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 418 | mg/L | 10.0 | 10.0 | 1 | | 10/09/19 20:07 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 7.8 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 08:29 | 16887-00-6 | |
| Fluoride | 0.063J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 08:29 | 16984-48-8 | |
| Sulfate | 102 | mg/L | 5.0 | 0.085 | 5 | | 10/10/19 14:31 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623921

QC Batch: 36528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623921001, 2623921002, 2623921003, 2623921004

METHOD BLANK: 165101 Matrix: Water
Associated Lab Samples: 2623921001, 2623921002, 2623921003, 2623921004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/08/19 17:42 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 10/08/19 17:42 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/08/19 17:42 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/08/19 17:42 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/08/19 17:42 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 10/08/19 17:42 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/08/19 17:42 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/08/19 17:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/08/19 17:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/08/19 17:42 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/08/19 17:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/08/19 17:42 | |

LABORATORY CONTROL SAMPLE: 165102

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 165104

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2623873013 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | 0.00071J | 0.1 | 0.1 | 0.095 | 0.10 | 94 | 100 | 75-125 | 6 | 20 | |
| Barium | mg/L | 0.071 | 0.1 | 0.1 | 0.17 | 0.17 | 94 | 101 | 75-125 | 4 | 20 | |
| Boron | mg/L | 0.018J | 1 | 1 | 0.99 | 1.0 | 97 | 102 | 75-125 | 5 | 20 | |
| Calcium | mg/L | 37.2 | 1 | 1 | 35.7 | 37.8 | -144 | 63 | 75-125 | 6 | 20 | M6 |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623921

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 | | 165104 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|---|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 2623873013 Result | MS Spike Conc. | MSD Spike Conc. | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.097 | 91 | 97 | 75-125 | 6 | 20 | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.093 | 0.098 | 93 | 97 | 75-125 | 4 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 5 | 20 | |
| Lithium | mg/L | 0.018J | 0.1 | 0.1 | 0.12 | 0.12 | 100 | 103 | 75-125 | 2 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.10 | 95 | 103 | 75-125 | 7 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.099 | 93 | 98 | 75-125 | 5 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623921

QC Batch: 36695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623921001, 2623921002, 2623921003, 2623921004

METHOD BLANK: 165707 Matrix: Water
Associated Lab Samples: 2623921001, 2623921002, 2623921003, 2623921004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | 0.030J | 1.0 | 0.024 | 10/09/19 15:19 | |
| Fluoride | mg/L | ND | 0.30 | 0.029 | 10/09/19 15:19 | |
| Sulfate | mg/L | ND | 1.0 | 0.017 | 10/09/19 15:19 | |

LABORATORY CONTROL SAMPLE: 165708

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Fluoride | mg/L | 10 | 10.7 | 107 | 90-110 | |
| Sulfate | mg/L | 10 | 10.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165709 165710

| Parameter | Units | 2623903001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 118 | 10 | 10 | 91.0 | 91.1 | -269 | -269 | 90-110 | 0 | 15 | |
| Fluoride | mg/L | 1.1 | 10 | 10 | 11.2 | 11.2 | 101 | 101 | 90-110 | 0 | 15 | |
| Sulfate | mg/L | 47.3 | 10 | 10 | 52.5 | 52.5 | 52 | 53 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 165711

| Parameter | Units | 2623921001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.3 | 10 | 14.4 | 101 | 90-110 | |
| Fluoride | mg/L | 0.057J | 10 | 10.7 | 106 | 90-110 | |
| Sulfate | mg/L | 1.6 | 10 | 11.9 | 104 | 90-110 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623921

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623921

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2623921001 | PZ-31 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623921002 | PZ-16 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623921003 | PZ-17 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623921004 | Dup-01 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623921001 | PZ-31 | SM 2540C | 36765 | | |
| 2623921002 | PZ-16 | SM 2540C | 36765 | | |
| 2623921003 | PZ-17 | SM 2540C | 36765 | | |
| 2623921004 | Dup-01 | SM 2540C | 36765 | | |
| 2623921001 | PZ-31 | EPA 300.0 | 36695 | | |
| 2623921002 | PZ-16 | EPA 300.0 | 36695 | | |
| 2623921003 | PZ-17 | EPA 300.0 | 36695 | | |
| 2623921004 | Dup-01 | EPA 300.0 | 36695 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Maner Road, Atlanta, GA 30339
 Email: abraham@southernco.com
 Phone: (404) 506-7239
 Requested Due Date: **5/24/2019**

Section B
 Required Project Information:
 Report To: Jibr Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell CCR
 Project #: **622160170**

Section C
 Invoice Information:
 Attention: SCSInvoices@southernco.com
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: betsy.medlar@pacelabs.com
 Pace Profile #: 333.1.2
 Regulatory Agency:
 State / Location: GA

Page: 1 of 1

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | MATRIX CODE (see valid codes to left) | # OF CONTAINERS | PRESERVATIVES | | | | | | | | ANALYSES TEST Y/N | Residual Chrome (Y/N) | | |
|--------|--------|------|------------|----------|-----------------------------|---------------------------------------|-----------------|---------------|------|-----|------|---------|----------|-------|----------------|-------------------|-----------------------|---------------------------|-----------------|
| | | | START DATE | END DATE | | | | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Radium 226/228 | | | App. III & App. IV Metals | TDS, Cl, F, SO4 |
| 1 | | | 10/14/19 | 10/25 | WG | | 4 | X | | | | | | | | | | | |
| 2 | | | 10/19/19 | 1355 | WG | | 4 | X | | | | | | | | | | | |
| 3 | | | 10/19/19 | 1530 | WG | | 4 | X | | | | | | | | | | | |
| 4 | | | 10/19/19 | - | WG | | 4 | X | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |

WO#: 2623921



2623921

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | TEMP IN C | Received on | Ice (Y/N) | Sealed (Y/N) | Cooler (Y/N) | Samples Intact (Y/N) |
|--|-------------------------------|----------|------|---------------------------|----------|------|-----------|-------------|-----------|--------------|--------------|----------------------|
| App III metals: B, Ca App IV metals: Sb, As, Ba, Cr, Co, Pb, Mo, Se, Ti | Daniel Howard / Wood | 10/21/19 | 1800 | M. LaLumaine | 10/23/19 | 0930 | | | | | | |
| | | | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: *Daniel Howard*

DATE Signed: 10/21/19



Sample Condition Upon Receipt

Client Name: GAP Power

Project # _____

WO#: **2623921**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193946079

PM: **BM** Due Date: **10/10/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/03/19 MK

Comments:

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

December 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623955

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2623955

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2623955

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623955001 | FB-01 | Water | 10/03/19 08:10 | 10/04/19 09:05 |
| 2623955002 | EB-02 | Water | 10/03/19 08:25 | 10/04/19 09:05 |
| 2623955003 | PZ-33 | Water | 10/03/19 09:50 | 10/04/19 09:05 |
| 2623955004 | PZ-19 | Water | 10/03/19 12:00 | 10/04/19 09:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623955

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|------------|-----------|-----------|----------|-------------------|
| 2623955001 | FB-01 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623955002 | EB-02 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623955003 | PZ-33 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |
| 2623955004 | PZ-19 | EPA 6020B | CSW | 12 |
| | | SM 2540C | ALW | 1 |
| | | EPA 300.0 | MWB | 3 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623955

| Sample: FB-01 | | Lab ID: 2623955001 | | Collected: 10/03/19 08:10 | | Received: 10/04/19 09:05 | | Matrix: Water | | |
|-------------------------------------|-----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-36-0 | | |
| Arsenic | 0.00072J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-38-2 | | |
| Barium | 0.0023J | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-39-3 | | |
| Boron | ND | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-42-8 | | |
| Calcium | ND | mg/L | 0.10 | 0.011 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-70-2 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 22:25 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 0.033J | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 09:54 | 16887-00-6 | B | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 09:54 | 16984-48-8 | | |
| Sulfate | ND | mg/L | 1.0 | 0.017 | 1 | | 10/10/19 09:54 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623955

| Sample: EB-02 | | Lab ID: 2623955002 | | Collected: 10/03/19 08:25 | | Received: 10/04/19 09:05 | | Matrix: Water | | |
|-------------------------------------|----------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-36-0 | | |
| Arsenic | 0.0011J | mg/L | 0.0050 | 0.00035 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.010 | 0.00049 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-39-3 | | |
| Boron | ND | mg/L | 0.040 | 0.0049 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-42-8 | | |
| Calcium | ND | mg/L | 0.10 | 0.011 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-70-2 | | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.000052 | 1 | 10/05/19 16:23 | 10/08/19 22:31 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 0.034J | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 11:40 | 16887-00-6 | B | |
| Fluoride | ND | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 11:40 | 16984-48-8 | | |
| Sulfate | ND | mg/L | 1.0 | 0.017 | 1 | | 10/10/19 11:40 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623955

| Sample: PZ-33 | | Lab ID: 2623955003 | | Collected: 10/03/19 09:50 | | Received: 10/04/19 09:05 | | Matrix: Water | | |
|-------------------------------------|------------------|--|--------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00027 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-38-2 | | |
| Barium | 0.057 | mg/L | 0.010 | 0.00049 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-39-3 | | |
| Boron | 0.36 | mg/L | 0.040 | 0.0049 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-42-8 | | |
| Calcium | 110 | mg/L | 5.0 | 0.55 | 50 | 10/09/19 16:23 | 10/10/19 18:23 | 7440-70-2 | M6 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-48-4 | | |
| Lead | 0.000047J | mg/L | 0.0050 | 0.000046 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00078 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00095 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.010 | 0.0013 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7782-49-2 | | |
| Thallium | 0.00018J | mg/L | 0.0010 | 0.000052 | 1 | 10/09/19 16:23 | 10/10/19 18:18 | 7440-28-0 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | 414 | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | 4.1 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 12:02 | 16887-00-6 | | |
| Fluoride | 0.060J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 12:02 | 16984-48-8 | | |
| Sulfate | 72.1 | mg/L | 5.0 | 0.085 | 5 | | 10/10/19 17:30 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Mitchell
Pace Project No.: 2623955

| Sample: PZ-19 | | Lab ID: 2623955004 | | Collected: 10/03/19 12:00 | | Received: 10/04/19 09:05 | | Matrix: Water | |
|-------------------------------------|-----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | |
| Antimony | 0.00044J | mg/L | 0.0030 | 0.00027 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.00035 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.010 | 0.00049 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-39-3 | |
| Boron | 0.52 | mg/L | 0.040 | 0.0049 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-42-8 | |
| Calcium | 125 | mg/L | 5.0 | 0.55 | 50 | 10/09/19 16:23 | 10/10/19 19:15 | 7440-70-2 | |
| Chromium | ND | mg/L | 0.010 | 0.00039 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00030 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0050 | 0.000046 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7439-92-1 | |
| Lithium | 0.016J | mg/L | 0.030 | 0.00078 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7439-93-2 | |
| Molybdenum | 0.0024J | mg/L | 0.010 | 0.00095 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7439-98-7 | |
| Selenium | 0.0034J | mg/L | 0.010 | 0.0013 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7782-49-2 | |
| Thallium | 0.00071J | mg/L | 0.0010 | 0.000052 | 1 | 10/09/19 16:23 | 10/10/19 19:09 | 7440-28-0 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C | | | | | | | |
| Total Dissolved Solids | 485 | mg/L | 10.0 | 10.0 | 1 | | 10/10/19 13:33 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 | | | | | | | |
| Chloride | 5.6 | mg/L | 1.0 | 0.024 | 1 | | 10/10/19 12:23 | 16887-00-6 | |
| Fluoride | 0.084J | mg/L | 0.30 | 0.029 | 1 | | 10/10/19 12:23 | 16984-48-8 | |
| Sulfate | 84.9 | mg/L | 5.0 | 0.085 | 5 | | 10/10/19 17:53 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623955

QC Batch: 36528 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623955001, 2623955002

METHOD BLANK: 165101 Matrix: Water
Associated Lab Samples: 2623955001, 2623955002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/08/19 17:42 | |
| Arsenic | mg/L | ND | 0.0050 | 0.00035 | 10/08/19 17:42 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/08/19 17:42 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/08/19 17:42 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/08/19 17:42 | |
| Chromium | mg/L | ND | 0.010 | 0.00039 | 10/08/19 17:42 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/08/19 17:42 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/08/19 17:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/08/19 17:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/08/19 17:42 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/08/19 17:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/08/19 17:42 | |

LABORATORY CONTROL SAMPLE: 165102

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 165104

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 2623873013 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | MSD Result |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 103 | 75-125 | 5 | 20 | |
| Arsenic | mg/L | 0.00071J | 0.1 | 0.1 | 0.095 | 0.10 | 94 | 100 | 75-125 | 6 | 20 | |
| Barium | mg/L | 0.071 | 0.1 | 0.1 | 0.17 | 0.17 | 94 | 101 | 75-125 | 4 | 20 | |
| Boron | mg/L | 0.018J | 1 | 1 | 0.99 | 1.0 | 97 | 102 | 75-125 | 5 | 20 | |
| Calcium | mg/L | 37.2 | 1 | 1 | 35.7 | 37.8 | -144 | 63 | 75-125 | 6 | 20 | M6 |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623955

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165103 | | 165104 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
|------------|-------|---|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| | | 2623873013 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.097 | 91 | 97 | 75-125 | 6 | 20 | | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.093 | 0.098 | 93 | 97 | 75-125 | 4 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 75-125 | 5 | 20 | | |
| Lithium | mg/L | 0.018J | 0.1 | 0.1 | 0.12 | 0.12 | 100 | 103 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.10 | 95 | 103 | 75-125 | 7 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.099 | 93 | 98 | 75-125 | 5 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.099 | 95 | 99 | 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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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623955

QC Batch: 36735 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623955003, 2623955004

METHOD BLANK: 165916 Matrix: Water
Associated Lab Samples: 2623955003, 2623955004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00027 | 10/10/19 18:06 | |
| Arsenic | mg/L | 0.00036J | 0.0050 | 0.00035 | 10/10/19 18:06 | |
| Barium | mg/L | ND | 0.010 | 0.00049 | 10/10/19 18:06 | |
| Boron | mg/L | ND | 0.040 | 0.0049 | 10/10/19 18:06 | |
| Calcium | mg/L | ND | 0.10 | 0.011 | 10/10/19 18:06 | |
| Chromium | mg/L | 0.00050J | 0.010 | 0.00039 | 10/10/19 18:06 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00030 | 10/10/19 18:06 | |
| Lead | mg/L | ND | 0.0050 | 0.000046 | 10/10/19 18:06 | |
| Lithium | mg/L | ND | 0.030 | 0.00078 | 10/10/19 18:06 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00095 | 10/10/19 18:06 | |
| Selenium | mg/L | ND | 0.010 | 0.0013 | 10/10/19 18:06 | |
| Thallium | mg/L | ND | 0.0010 | 0.000052 | 10/10/19 18:06 | |

LABORATORY CONTROL SAMPLE: 165917

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Calcium | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lead | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165918 165919

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2623955003 | Spike Conc. | Spike Conc. | 165919 | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 105 | 101 | 75-125 | 3 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | | |
| Barium | mg/L | 0.057 | 0.1 | 0.1 | 0.17 | 0.17 | 117 | 114 | 75-125 | 2 | 20 | | |
| Boron | mg/L | 0.36 | 1 | 1 | 1.3 | 1.3 | 94 | 94 | 75-125 | 0 | 20 | | |
| Calcium | mg/L | 110 | 1 | 1 | 114 | 109 | 387 | -44 | 75-125 | 4 | 20 | M6 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell

Pace Project No.: 2623955

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165918 | | | | | | | | | | | | 165919 | |
|---|-------|----------------------|----------------|----------------|--------|--------|-------|-------|--------|--------|-----|------------|------|
| Parameter | Units | 2623955003 Result | MS | MSD | MS | MSD | MS | MSD | % Rec | Limits | RPD | Max RPD | Qual |
| | | | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 100 | 75-125 | 4 | 20 | | |
| Lead | mg/L | 0.000047J | 0.1 | 0.1 | 0.094 | 0.089 | 94 | 89 | 75-125 | 6 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.097 | 97 | 97 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 107 | 104 | 75-125 | 4 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 100 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | 0.00018J | 0.1 | 0.1 | 0.095 | 0.091 | 94 | 91 | 75-125 | 4 | 20 | | |

SAMPLE DUPLICATE: 165920

| Parameter | Units | 92448261001 | Dup | RPD | Max RPD | Qualifiers |
|------------|-------|--------------|----------|-----|------------|------------|
| | | Result | Result | | | |
| Antimony | mg/L | 3.6J ug/L | ND | | 20 | |
| Arsenic | mg/L | 51.7 ug/L | 0.046J | | 20 | |
| Barium | mg/L | 191 ug/L | 0.20 | 4 | 20 | |
| Boron | mg/L | 404 ug/L | 0.42 | 3 | 20 | |
| Calcium | mg/L | 1460000 ug/L | 1490 | 2 | 20 | |
| Chromium | mg/L | 4.3J ug/L | 0.0046J | | 20 | |
| Cobalt | mg/L | 52.8 ug/L | 0.058 | 10 | 20 | |
| Lead | mg/L | 0.92J ug/L | 0.00084J | | 20 | |
| Lithium | mg/L | 33.9J ug/L | 0.034J | | 20 | |
| Molybdenum | mg/L | ND | ND | | 20 | |
| Selenium | mg/L | ND | ND | | 20 | |
| Thallium | mg/L | 0.64J ug/L | 0.00065J | | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623955

QC Batch: 36798 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2623955001, 2623955002, 2623955003, 2623955004

LABORATORY CONTROL SAMPLE: 166239

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 403 | 101 | 84-108 | |

SAMPLE DUPLICATE: 166240

| Parameter | Units | 2623927003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 86.0 | 90.0 | 5 | 10 | |

SAMPLE DUPLICATE: 166241

| Parameter | Units | 2623981001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 311 | 321 | 3 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Mitchell
Pace Project No.: 2623955

QC Batch: 36695 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623955001, 2623955002, 2623955003, 2623955004

METHOD BLANK: 165707 Matrix: Water
Associated Lab Samples: 2623955001, 2623955002, 2623955003, 2623955004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | 0.030J | 1.0 | 0.024 | 10/09/19 15:19 | |
| Fluoride | mg/L | ND | 0.30 | 0.029 | 10/09/19 15:19 | |
| Sulfate | mg/L | ND | 1.0 | 0.017 | 10/09/19 15:19 | |

LABORATORY CONTROL SAMPLE: 165708

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 10 | 10.3 | 103 | 90-110 | |
| Fluoride | mg/L | 10 | 10.7 | 107 | 90-110 | |
| Sulfate | mg/L | 10 | 10.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 165709 165710

| Parameter | Units | 2623903001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride | mg/L | 118 | 10 | 10 | 91.0 | 91.1 | -269 | -269 | 90-110 | 0 | 15 | |
| Fluoride | mg/L | 1.1 | 10 | 10 | 11.2 | 11.2 | 101 | 101 | 90-110 | 0 | 15 | |
| Sulfate | mg/L | 47.3 | 10 | 10 | 52.5 | 52.5 | 52 | 53 | 90-110 | 0 | 15 | |

MATRIX SPIKE SAMPLE: 165711

| Parameter | Units | 2623921001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/L | 4.3 | 10 | 14.4 | 101 | 90-110 | |
| Fluoride | mg/L | 0.057J | 10 | 10.7 | 106 | 90-110 | |
| Sulfate | mg/L | 1.6 | 10 | 11.9 | 104 | 90-110 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623955

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623955

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|----------|-------------------|------------------|
| 2623955001 | FB-01 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623955002 | EB-02 | EPA 3005A | 36528 | EPA 6020B | 36530 |
| 2623955003 | PZ-33 | EPA 3005A | 36735 | EPA 6020B | 36742 |
| 2623955004 | PZ-19 | EPA 3005A | 36735 | EPA 6020B | 36742 |
| 2623955001 | FB-01 | SM 2540C | 36798 | | |
| 2623955002 | EB-02 | SM 2540C | 36798 | | |
| 2623955003 | PZ-33 | SM 2540C | 36798 | | |
| 2623955004 | PZ-19 | SM 2540C | 36798 | | |
| 2623955001 | FB-01 | EPA 300.0 | 36695 | | |
| 2623955002 | EB-02 | EPA 300.0 | 36695 | | |
| 2623955003 | PZ-33 | EPA 300.0 | 36695 | | |
| 2623955004 | PZ-19 | EPA 300.0 | 36695 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Wamer Road, Atlanta, GA 30339
 Email: jabraham@southernco.com
 Phone: (404) 506-7238
 Requested Due Date: Standard

Section B
Required Project Information:
 Report To: Jsu Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell CCR
 Project #: 0122160170

Section C
Invoice Information:
 Attention: SCSinvoicess@southernco.com
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: betsy.mcdaniel@pacelabs.com
 Pace Profile #: 333.1.2
 State / Location: GA

Page: | Of |

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | # OF CONTAINERS | PRESERVATIVES | | | | | | | ANALYSES TEST | REQUESTED ANALYSES FILTERED (Y/N) | RESIDUAL CHLORINE (Y/N) |
|--------|--------|------|-----------------|---------------|-----------------------------|-----------------|---------------|-------|------|-----|------|---------|----------|---------------|-----------------------------------|-------------------------|
| | | | START DATE TIME | END DATE TIME | | | UNPRESERVED | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | | | |
| 1 | WB | DW | 10/31/19 | 0810 | G | 4 | X | X | X | X | X | X | X | X | X | X |
| 2 | WB | WT | 10/31/19 | 0825 | G | 4 | X | X | X | X | X | X | X | X | X | X |
| 3 | WB | WP | 10/31/19 | 0950 | G | 4 | X | X | X | X | X | X | X | X | X | X |
| 4 | WB | TS | 10/31/19 | 1200 | G | 4 | X | X | X | X | X | X | X | X | X | X |

MO#: 2623955

2623955

ADDITIONAL COMMENTS:
 App III metals: B, Cu
 App IV metals: Sb, As, Ba, Cr, Co, Pb, Li
 Mo, Se, Tl

RELINQUISHED BY / AFFILIATION:
 Daniel Howard / Wood 10/31/19 16:30

ACQUIRED BY / AFFILIATION:
 Madalman 10/04/19 09:00

TEMP in C: 1.0 F A A A

Received on: Ice (Y/N) Sealed (Y/N) Custody (Y/N) Cooler (Y/N) Intact (Y/N)

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 10/31/19

Sample Condition Upon Receipt

Pace Analytical

Client Name: GIA Power

Project # _____

WO# : 2623955

PM: BM

Due Date: 10/11/19

CLIENT: GAPower-CCR

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 1.0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/04/19

Temp should be above freezing to 6°C

Comments:

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | _____ | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

October 09, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622943

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2622943001 | EB-01 | Water | 09/10/19 08:10 | 09/11/19 09:00 |
| 2622943002 | PZ-23 | Water | 09/10/19 09:47 | 09/11/19 09:00 |

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2622943001 | EB-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2622943002 | PZ-23 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

Sample: EB-01 **Lab ID: 2622943001** Collected: 09/10/19 08:10 Received: 09/11/19 09:00 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.259 ± 0.246 (0.468) C:94% T:NA | pCi/L | 09/20/19 08:53 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.276 ± 0.437 (0.947) C:71% T:84% | pCi/L | 09/20/19 11:45 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.535 ± 0.683 (1.42) | pCi/L | 10/01/19 15:28 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

Sample: PZ-23 **Lab ID: 2622943002** Collected: 09/10/19 09:47 Received: 09/11/19 09:00 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.575 ± 0.295 (0.302) C:89% T:NA | pCi/L | 09/20/19 08:54 | 13982-63-3 | |
| Radium-228 | EPA 9320 | -0.163 ± 0.417 (0.979) C:74% T:87% | pCi/L | 09/20/19 11:45 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.575 ± 0.712 (1.28) | pCi/L | 10/01/19 15:28 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

QC Batch: 361438

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2622943001, 2622943002

METHOD BLANK: 1754425

Matrix: Water

Associated Lab Samples: 2622943001, 2622943002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.337 ± 0.242 (0.380) C:91% T:NA | pCi/L | 09/20/19 07:12 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

QC Batch: 361439

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2622943001, 2622943002

METHOD BLANK: 1754427

Matrix: Water

Associated Lab Samples: 2622943001, 2622943002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.462 ± 0.419 (0.854) C:67% T:85% | pCi/L | 09/20/19 11:52 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell Ash Ponds
Pace Project No.: 2622943

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell Ash Ponds

Pace Project No.: 2622943

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2622943001 | EB-01 | EPA 9315 | 361438 | | |
| 2622943002 | PZ-23 | EPA 9315 | 361438 | | |
| 2622943001 | EB-01 | EPA 9320 | 361439 | | |
| 2622943002 | PZ-23 | EPA 9320 | 361439 | | |
| 2622943001 | EB-01 | Total Radium Calculation | 364083 | | |
| 2622943002 | PZ-23 | Total Radium Calculation | 364083 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

WO#: 2622943
PM: BM Due Date: 10/09/19
CLIENT: GAPower-CCR

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.2 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/11/19 MR

| | | |
|--|--|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed |
| | | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): _____ | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

November 04, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623918

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623918

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2623918

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623918001 | PZ-14+QC | Water | 10/02/19 12:30 | 10/03/19 09:30 |
| 2623918002 | PZ-25 | Water | 10/02/19 13:15 | 10/03/19 09:30 |
| 2623918003 | Dup-02 | Water | 10/02/19 00:00 | 10/03/19 09:30 |
| 2623918004 | PZ-15 | Water | 10/02/19 15:23 | 10/03/19 09:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623918

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2623918001 | PZ-14+QC | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623918002 | PZ-25 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623918003 | Dup-02 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623918004 | PZ-15 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623918

Sample: PZ-14+QC **Lab ID: 2623918001** Collected: 10/02/19 12:30 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.281 ± 0.213 (0.319) C:96% T:NA | pCi/L | 10/25/19 08:34 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.574 ± 0.430 (0.848) C:75% T:82% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.915 ± 1.05 (2.22) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623918

Sample: PZ-25 **Lab ID: 2623918002** Collected: 10/02/19 13:15 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.802 ± 0.411 (0.597) C:89% T:NA | pCi/L | 10/25/19 09:51 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.674 ± 0.426 (0.805) C:74% T:86% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.48 ± 0.837 (1.40) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623918

Sample: Dup-02 **Lab ID: 2623918003** Collected: 10/02/19 00:00 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.554 ± 0.327 (0.462) C:87% T:NA | pCi/L | 10/25/19 08:34 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.423 ± 0.441 (0.917) C:70% T:83% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.977 ± 0.768 (1.38) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623918

Sample: PZ-15 **Lab ID: 2623918004** Collected: 10/02/19 15:23 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.517 ± 0.298 (0.396) C:91% T:NA | pCi/L | 10/25/19 08:34 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.484 ± 0.508 (1.06) C:70% T:81% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.00 ± 0.806 (1.46) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623918

| | | | |
|-------------------------|--|-----------------------|-------------------|
| QC Batch: | 366498 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| Associated Lab Samples: | 2623918001, 2623918002, 2623918003, 2623918004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1777737 | Matrix: | Water |
| Associated Lab Samples: | 2623918001, 2623918002, 2623918003, 2623918004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.599 ± 0.309 (0.395) C:98% T:NA | pCi/L | 10/25/19 09:42 | |

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: Plant Mitchell

Pace Project No.: 2623918

QC Batch: 366499

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2623918001, 2623918002, 2623918003, 2623918004

METHOD BLANK: 1777739

Matrix: Water

Associated Lab Samples: 2623918001, 2623918002, 2623918003, 2623918004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.720 ± 0.387 (0.688) C:72% T:87% | pCi/L | 10/29/19 12:24 | |

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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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623918

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623918

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2623918001 | PZ-14+QC | EPA 9315 | 366498 | | |
| 2623918002 | PZ-25 | EPA 9315 | 366498 | | |
| 2623918003 | Dup-02 | EPA 9315 | 366498 | | |
| 2623918004 | PZ-15 | EPA 9315 | 366498 | | |
| 2623918001 | PZ-14+QC | EPA 9320 | 366499 | | |
| 2623918002 | PZ-25 | EPA 9320 | 366499 | | |
| 2623918003 | Dup-02 | EPA 9320 | 366499 | | |
| 2623918004 | PZ-15 | EPA 9320 | 366499 | | |
| 2623918001 | PZ-14+QC | Total Radium Calculation | 368618 | | |
| 2623918002 | PZ-25 | Total Radium Calculation | 368618 | | |
| 2623918003 | Dup-02 | Total Radium Calculation | 368618 | | |
| 2623918004 | PZ-15 | Total Radium Calculation | 368618 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193945429

WO#: **2623918**

PM: BM Due Date: 10/31/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.5

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/03/19

Temp should be above freezing to 6°C Comments:

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

November 04, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623920

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell
Pace Project No.: 2623920

Pennsylvania Certification IDs

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell
Pace Project No.: 2623920

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623920001 | PZ-1D | Water | 10/01/19 16:30 | 10/03/19 09:30 |
| 2623920002 | PZ-32 | Water | 10/01/19 16:10 | 10/03/19 09:30 |
| 2623920003 | EB-01 | Water | 10/02/19 09:15 | 10/03/19 09:30 |
| 2623920004 | PZ-2D | Water | 10/02/19 10:38 | 10/03/19 09:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623920

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2623920001 | PZ-1D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623920002 | PZ-32 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623920003 | EB-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623920004 | PZ-2D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

Sample: PZ-1D **Lab ID: 2623920001** Collected: 10/01/19 16:30 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.443 ± 0.307 (0.534) C:95% T:NA | pCi/L | 10/18/19 07:54 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.510 ± 0.403 (0.804) C:74% T:90% | pCi/L | 10/23/19 12:59 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.953 ± 0.710 (1.34) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

Sample: PZ-32 **Lab ID: 2623920002** Collected: 10/01/19 16:10 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.501 ± 0.308 (0.498) C:96% T:NA | pCi/L | 10/18/19 07:54 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.506 ± 0.429 (0.863) C:63% T:90% | pCi/L | 10/23/19 12:35 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.01 ± 0.737 (1.36) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

Sample: EB-01 **Lab ID: 2623920003** Collected: 10/02/19 09:15 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.231 ± 0.210 (0.387) C:98% T:NA | pCi/L | 10/18/19 07:54 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.260 ± 0.394 (0.851) C:72% T:89% | pCi/L | 10/23/19 12:35 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.491 ± 0.604 (1.24) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

Sample: PZ-2D **Lab ID: 2623920004** Collected: 10/02/19 10:38 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.362 ± 0.253 (0.398) C:92% T:NA | pCi/L | 10/18/19 07:53 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.350 ± 0.553 (1.20) C:55% T:80% | pCi/L | 10/23/19 12:36 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.712 ± 0.806 (1.60) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

| | | | |
|-------------------------|--|-----------------------|-----------------|
| QC Batch: | 366031 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| Associated Lab Samples: | 2623920001, 2623920002, 2623920003, 2623920004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1775592 | Matrix: | Water |
| Associated Lab Samples: | 2623920001, 2623920002, 2623920003, 2623920004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|--------------------------------------|-------|----------------|------------|
| Radium-228 | 0.000680 ± 0.296 (0.693) C:76% T:86% | pCi/L | 10/23/19 12:34 | |

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623920

| | | | |
|-------------------------|--|-----------------------|-------------------|
| QC Batch: | 366030 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| Associated Lab Samples: | 2623920001, 2623920002, 2623920003, 2623920004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1775591 | Matrix: | Water |
| Associated Lab Samples: | 2623920001, 2623920002, 2623920003, 2623920004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.592 ± 0.321 (0.466) C:93% T:NA | pCi/L | 10/18/19 07:54 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2623920

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2623920

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2623920001 | PZ-1D | EPA 9315 | 366030 | | |
| 2623920002 | PZ-32 | EPA 9315 | 366030 | | |
| 2623920003 | EB-01 | EPA 9315 | 366030 | | |
| 2623920004 | PZ-2D | EPA 9315 | 366030 | | |
| 2623920001 | PZ-1D | EPA 9320 | 366031 | | |
| 2623920002 | PZ-32 | EPA 9320 | 366031 | | |
| 2623920003 | EB-01 | EPA 9320 | 366031 | | |
| 2623920004 | PZ-2D | EPA 9320 | 366031 | | |
| 2623920001 | PZ-1D | Total Radium Calculation | 368618 | | |
| 2623920002 | PZ-32 | Total Radium Calculation | 368618 | | |
| 2623920003 | EB-01 | Total Radium Calculation | 368618 | | |
| 2623920004 | PZ-2D | Total Radium Calculation | 368618 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 81219394 5418

WO#: **2623920**

PM: BM Due Date: 10/31/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: **GA Power-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/03/19 MR

Temp should be above freezing to 6°C

Comments:

| | | | |
|---|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

November 04, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623922

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623922

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2623922

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623922001 | PZ-31 | Water | 10/02/19 10:25 | 10/03/19 09:30 |
| 2623922002 | PZ-16 | Water | 10/02/19 13:55 | 10/03/19 09:30 |
| 2623922003 | PZ-17 | Water | 10/02/19 15:30 | 10/03/19 09:30 |
| 2623922004 | Dup-01 | Water | 10/02/19 00:00 | 10/03/19 09:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623922

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2623922001 | PZ-31 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623922002 | PZ-16 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623922003 | PZ-17 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623922004 | Dup-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

Sample: PZ-31 **Lab ID: 2623922001** Collected: 10/02/19 10:25 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.0883 ± 0.144 (0.313) C:95% T:NA | pCi/L | 10/18/19 08:18 | 13982-63-3 | |
| Radium-228 | EPA 9320 | -0.163 ± 0.563 (1.32) C:54% T:96% | pCi/L | 10/23/19 12:46 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.0883 ± 0.707 (1.63) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

Sample: PZ-16 **Lab ID: 2623922002** Collected: 10/02/19 13:55 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.440 ± 0.294 (0.467) C:80% T:NA | pCi/L | 10/18/19 08:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.210 ± 0.756 (1.71) C:54% T:82% | pCi/L | 10/23/19 15:59 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.650 ± 1.05 (2.18) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

Sample: PZ-17 **Lab ID: 2623922003** Collected: 10/02/19 15:30 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.513 ± 0.297 (0.435) C:89% T:NA | pCi/L | 10/18/19 08:19 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.826 ± 0.691 (1.39) C:69% T:78% | pCi/L | 10/23/19 15:59 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.34 ± 0.988 (1.83) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

Sample: Dup-01 **Lab ID: 2623922004** Collected: 10/02/19 00:00 Received: 10/03/19 09:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.637 ± 0.360 (0.563) C:93% T:NA | pCi/L | 10/18/19 09:17 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.531 ± 0.576 (1.20) C:68% T:82% | pCi/L | 10/23/19 16:00 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.17 ± 0.936 (1.76) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

| | | | |
|-------------------------|--|-----------------------|-----------------|
| QC Batch: | 366031 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| Associated Lab Samples: | 2623922001, 2623922002, 2623922003, 2623922004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1775592 | Matrix: | Water |
| Associated Lab Samples: | 2623922001, 2623922002, 2623922003, 2623922004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|--------------------------------------|-------|----------------|------------|
| Radium-228 | 0.000680 ± 0.296 (0.693) C:76% T:86% | pCi/L | 10/23/19 12:34 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623922

| | | | |
|-------------------------|--|-----------------------|-------------------|
| QC Batch: | 366030 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| Associated Lab Samples: | 2623922001, 2623922002, 2623922003, 2623922004 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1775591 | Matrix: | Water |
| Associated Lab Samples: | 2623922001, 2623922002, 2623922003, 2623922004 | | |

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.592 ± 0.321 (0.466) C:93% T:NA | pCi/L | 10/18/19 07:54 | |

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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QUALIFIERS

Project: Plant Mitchell

Pace Project No.: 2623922

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell

Pace Project No.: 2623922

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2623922001 | PZ-31 | EPA 9315 | 366030 | | |
| 2623922002 | PZ-16 | EPA 9315 | 366030 | | |
| 2623922003 | PZ-17 | EPA 9315 | 366030 | | |
| 2623922004 | Dup-01 | EPA 9315 | 366030 | | |
| 2623922001 | PZ-31 | EPA 9320 | 366031 | | |
| 2623922002 | PZ-16 | EPA 9320 | 366031 | | |
| 2623922003 | PZ-17 | EPA 9320 | 366031 | | |
| 2623922004 | Dup-01 | EPA 9320 | 366031 | | |
| 2623922001 | PZ-31 | Total Radium Calculation | 368952 | | |
| 2623922002 | PZ-16 | Total Radium Calculation | 368952 | | |
| 2623922003 | PZ-17 | Total Radium Calculation | 368952 | | |
| 2623922004 | Dup-01 | Total Radium Calculation | 368952 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document


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

| | | | | | |
|------------------------------|---|-------------------------------|--------------------|-----------------------|-----------------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company | Georgia Power - Coal Combustion Residuals | Report To: | Joey Abraham | Attention: | SCSinvoices@southernco.com |
| Address | 2480 Meter Road Atlanta, GA 30339 | Copy To: | Wood PLC | Company Name: | |
| Email | abraham@southernco.com | Purchase Order #: | SCS 0382775 | Address: | |
| Phone | (404) 506-7239 | Project Name: | Plant Mitchell CCR | Pace Quote: | |
| Request Due Date: | Standard | Project #: | 6122160170 | Pace Project Manager: | betsy.mcdaniels@pscjobs.com |
| | | | | Pace Profile #: | 333.1.2 |
| | | | | Regulatory Agency: | GA |
| | | | | State / Location: | GA |

Page: 1 Of 1

| ITEM # | MATRIX | MATRIX CODE | COLLECTOR | | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see vial codes to left) | SAMPLE TEMP AT COLLECTION | | # OF CONTAINERS | PRESERVATIVES | | | | | | | | | | ANALYSES TEST | | | | Residual Chrome (Y/N) | |
|--------|----------------|-------------|------------|----------|-----------------------------|--------------------------------------|---------------------------|-------|-----------------|---------------|-----|------|---------|----------|-------|-----|----------------|---------------------------|-----------------|---------------|--|--|--|-----------------------|--|
| | | | START DATE | END DATE | | | UNPRESERVED | H2SO4 | | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Y/N | Radium 226/228 | App. III & App. IV Metals | TDS, Cl, F, SO4 | | | | | | |
| 1 | Drinking Water | DW | 10/2/19 | 10/25 | WG | WG | | 4 | X | | | | | | | | | X | X | X | | | | | |
| 2 | Waste Water | WW | 10/2/19 | 1355 | WG | WG | | 4 | X | | | | | | | | | X | X | X | | | | | |
| 3 | Product | P | 10/2/19 | 1530 | GM | GM | | 4 | X | | | | | | | | | X | X | X | | | | | |
| 4 | Soils/Sediment | SL | 10/2/19 | - | MG | MG | | 4 | X | | | | | | | | | X | X | X | | | | | |

WO#: 2623922



| ITEM # | ADDITIONAL COMMENTS | REMOVED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | TEMP in C | | Received on | Ice (Y/N) | Custody (Y/N) | Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---------------------|--------------------------|--------------|---------------------------|---------------|-----------|------|-------------|-----------|---------------|---------------------|----------------------|
| | | DATE | TIME | DATE | TIME | DATE | TIME | | | | | |
| App II metals: B, Ca | | | | | | | | | | | | |
| App IV metals: Sb, As, Ba, Cr, Co, Pb, Ni, Mo, Se, Tl | | | | | | | | | | | | |
| | | Daniel Howard / Wood | 10/2/19 1800 | M. D. Luman | 10/03/19 0930 | | | | | | | |
| | | | | | | | | | | | | 0.5 |

SAMPLER NAME AND SIGNATURE: Daniel Howard
 PRINT NAME of SAMPLER: Daniel Howard
 SIGNATURE of SAMPLER: Daniel Howard

DATE Signed: 10/2/19



Sample Condition Upon Receipt

Client Name: GCA Power

Project # _____

WO#: 2623922

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 812193946079

PM: BM Due Date: 10/31/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.5 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/03/19 MK

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

November 04, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623954

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623954

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2623954

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623954001 | PZ-18+QC | Water | 10/03/19 09:40 | 10/04/19 09:05 |
| 2623954002 | PZ-7D | Water | 10/03/19 11:10 | 10/04/19 09:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623954

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2623954001 | PZ-18+QC | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623954002 | PZ-7D | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623954

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|--------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.508 ± 0.297 (0.343) C:85% T:NA | pCi/L | 10/25/19 08:34 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.56 ± 0.614 (0.971) C:71% T:78% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 2.07 ± 0.911 (1.31) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623954

Sample: PZ-7D **Lab ID: 2623954002** Collected: 10/03/19 11:10 Received: 10/04/19 09:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.654 ± 0.329 (0.402) C:89% T:NA | pCi/L | 10/25/19 09:00 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.711 ± 0.444 (0.841) C:74% T:86% | pCi/L | 10/29/19 15:27 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.37 ± 0.773 (1.24) | pCi/L | 11/01/19 14:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623954

QC Batch: 366498

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2623954001, 2623954002

METHOD BLANK: 1777737

Matrix: Water

Associated Lab Samples: 2623954001, 2623954002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.599 ± 0.309 (0.395) C:98% T:NA | pCi/L | 10/25/19 09:42 | |

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: Plant Mitchell

Pace Project No.: 2623954

QC Batch: 366499

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2623954001, 2623954002

METHOD BLANK: 1777739

Matrix: Water

Associated Lab Samples: 2623954001, 2623954002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.720 ± 0.387 (0.688) C:72% T:87% | pCi/L | 10/29/19 12:24 | |

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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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2623954

DEFINITIONS

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ND - Not Detected at or above adjusted reporting limit.

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

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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)

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RPD - Relative Percent Difference

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SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

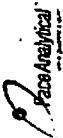
Project: Plant Mitchell

Pace Project No.: 2623954

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2623954001 | PZ-18+QC | EPA 9315 | 366498 | | |
| 2623954002 | PZ-7D | EPA 9315 | 366498 | | |
| 2623954001 | PZ-18+QC | EPA 9320 | 366499 | | |
| 2623954002 | PZ-7D | EPA 9320 | 366499 | | |
| 2623954001 | PZ-18+QC | Total Radium Calculation | 368952 | | |
| 2623954002 | PZ-7D | Total Radium Calculation | 369016 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Muner Road, Atlanta, GA 30339
 Email: jabraham@southernco.com
 Phone: (404)506-7239
 Requested Due Date: **Standard**

Section B
 Required Project Information:
 Report To: Josh Abraham
 Copy To: Wood PLC
 Purchase Order #: SCS10382775
 Project Name: Plant Mitchell CCR
 Project #: **6122160170**

Section C
 Invoice Information:
 Attention: sjsinvoic@southernco.com
 Company Name:
 Address:
 Pace Project Manager: gaby.mcdaniels@pucsubr.com
 Pace Profile #: 333.1.2
 State / Location: GA
 Regulatory Agency:
 Page: 1 of 1

| ITEM # | MATRIX | MATRIX CODE (see valid codes to left) | COLLECTED | | SAMPLE TYPE (G-GRAB C-COMP) | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | | | ANALYSES TEST | Requested Analysis Filtered (Y/N) | |
|--------|---------------------|---------------------------------------|------------|----------|-----------------------------|---------------------------|-----------------|---------------|-------|------|-----|---------------|-----------------------------------|------|
| | | | START DATE | END DATE | | | | UNPRESERVED | H2SO4 | HNO3 | HCl | | | NaOH |
| 1 | Drying Water | DW | 10/31/11 | 0940 | G | | 6 | X | | | | | | |
| 2 | Waste Water | WW | 10/31/11 | 1110 | G | | 4 | X | | | | | | |
| 3 | Waste Water Product | WP | | | | | | | | | | | | |
| 4 | Scrubbed Oil | OL | | | | | | | | | | | | |
| 5 | Wipe | WP | | | | | | | | | | | | |
| 6 | Air | AR | | | | | | | | | | | | |
| 7 | Other | OT | | | | | | | | | | | | |
| 8 | Tissue | TS | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

WO#: 2623954

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACQUIRED BY / AFFILIATION | DATE | TIME | TEMP IN C | Received on | Ice | Custody | Sealed | Cooler | Samples | (Y/N) |
|---|-------------------------------|--------------------------------------|------|-------------------------------------|---------|----------------------|-----------|-------------|-----|---------|--------|--------|---------|-------|
| App III metals: R, Ca | Daniel Howard / Wood | 10/31/11 | 1630 | M. K. Lawson | 10/4/11 | 0905 | | | | | | | | |
| App IV metals: Sb, As, Ba, Cr, Co, Pb, Mo, Se, Tl | Daniel Howard | | | | | | 1.0 | | | | | | | |
| SAMPLER NAME AND SIGNATURE | | PRINT Name of SAMPLER: Daniel Howard | | SIGNATURE of SAMPLER: Daniel Howard | | DATE Signed: 10/3/11 | | | | | | | | |

Sample Condition Upon Receipt

Pace Analytical

Client Name: GIA Power

Project # _____

WO# : 2623954

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

PM: **BM** Due Date: **11/01/19**
 CLIENT: **GAPower-CCR**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 23 Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 1-0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/04/19

Temp should be above freezing to 6°C

Comments: _____

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | _____ | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

November 04, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Mitchell
Pace Project No.: 2623956

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Rhonda Quinn, Wood E&I Solutions, Inc. - Kennesaw
Rebecca Thornton, Pace Analytical Atlanta
Greg Wrenn, Wood PLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Mitchell

Pace Project No.: 2623956

Pennsylvania Certification IDs

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 #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Mitchell

Pace Project No.: 2623956

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------|--------|----------------|----------------|
| 2623956001 | FB-01 | Water | 10/03/19 08:10 | 10/04/19 09:05 |
| 2623956002 | EB-02 | Water | 10/03/19 08:25 | 10/04/19 09:05 |
| 2623956003 | PZ-33 | Water | 10/03/19 09:50 | 10/04/19 09:05 |
| 2623956004 | PZ-19 | Water | 10/03/19 12:00 | 10/04/19 09:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Mitchell

Pace Project No.: 2623956

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------|--------------------------|----------|-------------------|------------|
| 2623956001 | FB-01 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623956002 | EB-02 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623956003 | PZ-33 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |
| 2623956004 | PZ-19 | EPA 9315 | LAL | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | CMC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623956

Sample: FB-01 **Lab ID: 2623956001** Collected: 10/03/19 08:10 Received: 10/04/19 09:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.341 ± 0.244 (0.410) C:98% T:NA | pCi/L | 10/18/19 08:02 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.397 ± 0.420 (0.868) C:54% T:91% | pCi/L | 10/23/19 13:10 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.738 ± 0.664 (1.28) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623956

Sample: EB-02 **Lab ID: 2623956002** Collected: 10/03/19 08:25 Received: 10/04/19 09:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.362 ± 0.261 (0.439) C:95% T:NA | pCi/L | 10/18/19 07:53 | 13982-63-3 | |
| Radium-228 | EPA 9320 | -0.0922 ± 0.336 (0.806) C:64% T:95% | pCi/L | 10/23/19 12:56 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 0.362 ± 0.597 (1.25) | pCi/L | 10/30/19 16:01 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623956

Sample: PZ-33 **Lab ID: 2623956003** Collected: 10/03/19 09:50 Received: 10/04/19 09:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|--|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 0.548 ± 0.359 (0.621) C:85% T:NA | pCi/L | 10/18/19 07:53 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 1.07 ± 0.656 (1.26) C:59% T:87% | pCi/L | 10/23/19 12:46 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.62 ± 1.02 (1.88) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623956

Sample: PZ-19 **Lab ID: 2623956004** Collected: 10/03/19 12:00 Received: 10/04/19 09:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|-----------------------------|---|-------|----------------|------------|------|
| Radium-226 | EPA 9315 | 1.12 ± 0.426 (0.349) C:84% T:NA | pCi/L | 10/18/19 08:18 | 13982-63-3 | |
| Radium-228 | EPA 9320 | 0.780 ± 0.564 (1.12) C:60% T:86% | pCi/L | 10/23/19 12:46 | 15262-20-1 | |
| Total Radium | Total Radium Calculation | 1.90 ± 0.990 (1.47) | pCi/L | 11/01/19 10:40 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Mitchell

Pace Project No.: 2623956

QC Batch: 366031

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2623956001, 2623956002, 2623956003, 2623956004

METHOD BLANK: 1775592

Matrix: Water

Associated Lab Samples: 2623956001, 2623956002, 2623956003, 2623956004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|--------------------------------------|-------|----------------|------------|
| Radium-228 | 0.000680 ± 0.296 (0.693) C:76% T:86% | pCi/L | 10/23/19 12:34 | |

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: Plant Mitchell

Pace Project No.: 2623956

QC Batch: 366030

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2623956001, 2623956002, 2623956003, 2623956004

METHOD BLANK: 1775591

Matrix: Water

Associated Lab Samples: 2623956001, 2623956002, 2623956003, 2623956004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.592 ± 0.321 (0.466) C:93% T:NA | pCi/L | 10/18/19 07:54 | |

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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QUALIFIERS

Project: Plant Mitchell
Pace Project No.: 2623956

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.

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.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Mitchell
Pace Project No.: 2623956

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------|--------------------------|----------|-------------------|------------------|
| 2623956001 | FB-01 | EPA 9315 | 366030 | | |
| 2623956002 | EB-02 | EPA 9315 | 366030 | | |
| 2623956003 | PZ-33 | EPA 9315 | 366030 | | |
| 2623956004 | PZ-19 | EPA 9315 | 366030 | | |
| 2623956001 | FB-01 | EPA 9320 | 366031 | | |
| 2623956002 | EB-02 | EPA 9320 | 366031 | | |
| 2623956003 | PZ-33 | EPA 9320 | 366031 | | |
| 2623956004 | PZ-19 | EPA 9320 | 366031 | | |
| 2623956001 | FB-01 | Total Radium Calculation | 368618 | | |
| 2623956002 | EB-02 | Total Radium Calculation | 368618 | | |
| 2623956003 | PZ-33 | Total Radium Calculation | 368952 | | |
| 2623956004 | PZ-19 | Total Radium Calculation | 368952 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|---|---|--|--------------------|-----------------------------------|----------------------------|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company | Georgia Power - Coal Combustion Residuals | Report To: | Joju Abraham | Attention: | scsinvoices@southernco.com |
| Address: | 2480 Maner Road Atlanta, GA 30339 | Copy To: | Wood PLC | Company Name: | |
| Email: | jabraham@southernco.com | Purchase Order #: | SCS10382775 | Address: | |
| Phone: | (404)506-7239 | Project Name: | Plant Mitchell CCR | Pace Project Manager: | bday.medaniel@pacelabs.com |
| Requested Due Date: | Standard | Project #: | 6123160170 | Pace Profile #: | 333.1.2 |
| Regulatory Agency: | | State / Location: | | GA | |

Page: | Of |

| ITEM # | MATRIX CODE (see valid codes to left) | MATRIX | COLLECTED | | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | | | ANALYSES TEST | Y/N | Requested Analysis Filtered (Y/N) |
|--------|---------------------------------------|----------------|-----------|------|------|------|---------------------------|-----------------|---------------|------|-----|------|---------------|-----|-----------------------------------|
| | | | START | END | | | | | H2SO4 | HNO3 | HCl | NaOH | | | |
| 1 | WG | Drinking Water | 10/31/10 | 0810 | 4 | X | 4 | X | | | | | X | X | |
| 2 | WG | Waste Water | 10/31/10 | 0825 | 4 | X | 4 | X | | | | | X | X | |
| 3 | WG | Process | 10/31/10 | 0950 | 4 | X | 4 | X | | | | | X | X | |
| 4 | WG | Solid | 10/31/10 | 1200 | 4 | X | 4 | X | | | | | X | X | |
| 5 | | Other | | | | | | | | | | | | | |
| 6 | | TS | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

WO#: 2623956

| | | | | | | | | | | | | | | | | |
|--|--------------------------------|------------------------|-------|----------------------------|----------|--------------|-----------|-------------|-----|-------|--------|--------|-------|-------|---------|-------|
| ADDITIONAL COMMENTS: | RELINQUISHED BY / AFFILIATION: | DATE: | TIME: | RECEIVED BY / AFFILIATION: | DATE: | TIME: | TEMP in C | Received on | ice | (Y/N) | Cloudy | Sealed | Color | (Y/N) | Samples | (Y/N) |
| App III metals: R, Cu App IV metals: Sb, As, Ba, Cr, Co, Pb, Ni Mo, Se, Tl | Daniel Howard / Wood | 10/31/10 | 1630 | M. Dalman | 10/04/19 | 0900 | 1.0 | F | F | F | F | F | F | F | F | F |
| SAMPLER NAME AND SIGNATURE: | | PRINT Name of SAMPLER: | | SIGNATURE of SAMPLER: | | DATE Signed: | | | | | | | | | | |
| Daniel Howard | | Daniel Howard | | Daniel Howard | | 10/3/19 | | | | | | | | | | |

Sample Condition Upon Receipt

Pace Analytical

Client Name: GIA Power

Project # _____

WO#: 2623956

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

PM: **BM** Due Date: **11/01/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/04/19

Comments: _____

| | | | |
|--|--|------------------------|-----------------------------|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. | |
| -Includes date/time/ID/Analysis Matrix: | <u>W</u> | | |
| All containers needing preservation have been checked. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Initial when completed | Lot # of added preservative |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |
| Pace Trip Blank Lot # (if purchased): | _____ | | |

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

Product Name: Low-Flow System

Date: 2019-10-01 16:29:08

Project Information:

Operator Name Ever Guillem
Company Name Wood
Project Name Plant Mitchell
Site Name PZ-1D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model N/A

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55.86 ft

Pump placement from TOC 55.86 ft

Well Information:

Well ID PZ-1D
Well diameter 2 in
Well Total Depth 81.71 ft
Screen Length 10 ft
Depth to Water 55.86 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7293268 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 16:04:09 | 1200.02 | 22.61 | 7.36 | 242.53 | 1.37 | 55.97 | 3.67 | 75.39 |
| Last 5 | 16:09:09 | 1500.03 | 22.35 | 7.41 | 245.00 | 1.24 | 55.97 | 3.73 | 76.91 |
| Last 5 | 16:14:09 | 1800.02 | 22.26 | 7.45 | 248.00 | 1.06 | 55.97 | 3.80 | 75.49 |
| Last 5 | 16:19:09 | 2100.02 | 22.17 | 7.47 | 249.34 | 0.91 | 55.97 | 3.89 | 73.56 |
| Last 5 | 16:24:09 | 2400.02 | 22.30 | 7.50 | 250.52 | 0.82 | 55.97 | 3.93 | 71.31 |
| Variance 0 | | | -0.09 | 0.04 | 3.01 | | | 0.07 | -1.42 |
| Variance 1 | | | -0.09 | 0.02 | 1.33 | | | 0.09 | -1.93 |
| Variance 2 | | | 0.13 | 0.03 | 1.18 | | | 0.04 | -2.25 |

Notes

PZ-1D Sampled at 1630

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 10:42:04

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-2D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.17 in
Tubing Length 81 ft

Pump placement from TOC 76 ft

Well Information:

Well ID PZ-2D
Well diameter 2 in
Well Total Depth 81.01 ft
Screen Length 10 ft
Depth to Water 39.42 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8415373 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.16 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 10:16:51 | 900.02 | 20.40 | 8.86 | 121.36 | 4.44 | 39.58 | 2.50 | 89.12 |
| Last 5 | 10:21:51 | 1200.02 | 20.33 | 8.89 | 126.08 | 3.23 | 39.58 | 2.55 | 91.78 |
| Last 5 | 10:26:51 | 1500.02 | 20.29 | 8.93 | 130.28 | 2.88 | 39.58 | 2.57 | 99.79 |
| Last 5 | 10:31:51 | 1800.02 | 20.23 | 8.94 | 132.68 | 2.34 | 39.58 | 2.58 | 103.53 |
| Last 5 | 10:36:51 | 2100.02 | 20.16 | 8.97 | 132.84 | 3.19 | 39.58 | 2.57 | 97.44 |
| Variance 0 | | | -0.04 | 0.03 | 4.20 | | | 0.01 | 8.01 |
| Variance 1 | | | -0.06 | 0.01 | 2.39 | | | 0.01 | 3.75 |
| Variance 2 | | | -0.07 | 0.03 | 0.16 | | | -0.01 | -6.09 |

Notes

PZ-2D sample time 1038

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-03 11:09:42

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-7D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 50.37 ft

Pump placement from TOC 55.37 ft

Well Information:

Well ID PZ-7D
Well diameter 2 in
Well Total Depth 60.37 ft
Screen Length 10 ft
Depth to Water 37.15 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.966208 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 10:45:49 | 300.03 | 21.90 | 6.91 | 611.18 | 3.34 | 37.55 | 0.40 | 47.14 |
| Last 5 | 10:50:49 | 600.03 | 21.72 | 6.87 | 613.78 | 2.42 | 37.55 | 0.29 | 53.70 |
| Last 5 | 10:55:49 | 900.03 | 21.76 | 6.86 | 614.80 | 1.03 | 37.55 | 0.29 | 55.52 |
| Last 5 | 11:00:49 | 1200.03 | 21.72 | 6.85 | 613.66 | 0.86 | 37.55 | 0.28 | 56.95 |
| Last 5 | 11:05:49 | 1500.03 | 21.72 | 6.85 | 612.82 | 0.64 | 37.55 | 0.27 | 58.76 |
| Variance 0 | | | 0.04 | -0.01 | 1.01 | | | -0.00 | 1.82 |
| Variance 1 | | | -0.04 | -0.01 | -1.13 | | | -0.01 | 1.43 |
| Variance 2 | | | -0.00 | 0.00 | -0.84 | | | -0.01 | 1.81 |

Notes

Sampled at 1110

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 12:32:49

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-14
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 43.20 ft

Pump placement from TOC 38.20 ft

Well Information:

Well ID PZ-14
Well diameter 2 in
Well Total Depth 53.20 ft
Screen Length 10 ft
Depth to Water 46.72 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.896998 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 12:07:07 | 2700.02 | 22.51 | 6.96 | 525.15 | 0.38 | 42.83 | 4.22 | 64.80 |
| Last 5 | 12:12:07 | 3000.02 | 22.64 | 6.96 | 525.62 | 0.32 | 42.83 | 4.16 | 64.72 |
| Last 5 | 12:17:07 | 3300.03 | 22.45 | 6.96 | 525.17 | 0.68 | 42.83 | 4.11 | 64.20 |
| Last 5 | 12:22:07 | 3600.02 | 22.49 | 6.96 | 525.43 | 0.66 | 42.83 | 4.08 | 64.33 |
| Last 5 | 12:27:07 | 3900.02 | 22.57 | 6.96 | 524.50 | 0.53 | 42.83 | 4.05 | 63.93 |
| Variance 0 | | | -0.19 | 0.01 | -0.45 | | | -0.05 | -0.52 |
| Variance 1 | | | 0.04 | -0.00 | 0.26 | | | -0.03 | 0.13 |
| Variance 2 | | | 0.08 | 0.00 | -0.93 | | | -0.03 | -0.40 |

Notes

Sampled at 1230

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 15:24:42

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-15
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.25 in
Tubing Length 83.2 ft

Pump placement from TOC 78.22 ft

Well Information:

Well ID PZ-15
Well diameter 2 in
Well Total Depth 83.22 ft
Screen Length 10 ft
Depth to Water 34.87 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.283107 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.21 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 15:01:28 | 900.03 | 24.93 | 7.26 | 535.29 | 2.15 | 35.08 | 0.27 | -76.83 |
| Last 5 | 15:06:28 | 1200.03 | 24.85 | 7.24 | 536.54 | 2.02 | 35.08 | 0.22 | -67.03 |
| Last 5 | 15:11:28 | 1500.02 | 24.41 | 7.23 | 534.97 | 1.35 | 35.08 | 0.20 | -61.33 |
| Last 5 | 15:16:28 | 1800.02 | 24.51 | 7.23 | 533.28 | 1.30 | 35.09 | 0.19 | -64.25 |
| Last 5 | 15:21:28 | 2100.02 | 24.23 | 7.22 | 531.44 | 1.24 | 35.08 | 0.18 | -67.60 |
| Variance 0 | | | -0.45 | -0.01 | -1.57 | | | -0.02 | 5.70 |
| Variance 1 | | | 0.10 | -0.00 | -1.69 | | | -0.01 | -2.92 |
| Variance 2 | | | -0.28 | -0.00 | -1.85 | | | -0.01 | -3.35 |

Notes

PZ-15 sample time 1523

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 13:52:33

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-16
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 43.19 ft

Pump placement from TOC 48.19 ft

Well Information:

Well ID PZ-16
Well diameter 2 in
Well Total Depth 53.19 ft
Screen Length 10 ft
Depth to Water 38.13 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8969014 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 13:24:48 | 300.03 | 21.87 | 7.25 | 468.89 | 1.27 | 38.43 | 1.09 | 64.88 |
| Last 5 | 13:29:48 | 600.03 | 21.81 | 7.24 | 469.80 | 1.36 | 38.43 | 1.06 | 64.81 |
| Last 5 | 13:34:48 | 900.02 | 21.85 | 7.24 | 472.28 | 0.47 | 38.43 | 1.06 | 64.39 |
| Last 5 | 13:39:48 | 1200.02 | 21.82 | 7.22 | 472.32 | 0.46 | 38.43 | 1.06 | 64.39 |
| Last 5 | 13:49:49 | 1801.02 | 21.70 | 7.22 | 472.91 | 0.58 | 38.43 | 1.05 | 63.41 |
| Variance 0 | | | 0.04 | -0.00 | 2.48 | | | 0.00 | -0.43 |
| Variance 1 | | | -0.03 | -0.01 | 0.04 | | | 0.00 | 0.00 |
| Variance 2 | | | -0.12 | -0.00 | 0.59 | | | -0.02 | -0.97 |

Notes

Sampled at 1355

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 15:27:29

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-17
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 52.70 ft

Pump placement from TOC 57.70 ft

Well Information:

Well ID PZ-17
Well diameter 2 in
Well Total Depth 62.70 ft
Screen Length 10 ft
Depth to Water 36.65 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.988699 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 15:04:16 | 900.03 | 22.55 | 6.99 | 650.52 | 0.54 | 36.92 | 0.16 | -74.49 |
| Last 5 | 15:09:16 | 1200.03 | 22.13 | 7.00 | 649.41 | 0.47 | 36.92 | 0.16 | -73.94 |
| Last 5 | 15:14:16 | 1500.03 | 22.12 | 6.99 | 650.83 | 0.30 | 36.92 | 0.16 | -68.79 |
| Last 5 | 15:19:16 | 1800.03 | 21.99 | 6.99 | 649.93 | 0.27 | 37.92 | 0.16 | -67.34 |
| Last 5 | 15:24:16 | 2100.03 | 22.02 | 6.99 | 651.49 | 0.24 | 36.92 | 0.16 | -66.74 |
| Variance 0 | | | -0.00 | -0.01 | 1.42 | | | 0.00 | 5.15 |
| Variance 1 | | | -0.14 | 0.00 | -0.90 | | | -0.00 | 1.45 |
| Variance 2 | | | 0.04 | 0.00 | 1.56 | | | 0.00 | 0.60 |

Notes: Sampled at
1530
Also collected
DUP-01
Grab Samples

Product Name: Low-Flow System

Date: 2019-10-03 09:39:03

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-18
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 53.18 ft

Pump placement from TOC 58.18 ft

Well Information:

Well ID PZ-18
Well diameter 2 in
Well Total Depth 63.18 ft
Screen Length 10 ft
Depth to Water 33.97 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9933323 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 09:15:02 | 600.03 | 22.08 | 6.71 | 682.49 | 0.96 | 34.33 | 0.16 | -12.33 |
| Last 5 | 09:20:02 | 900.03 | 22.09 | 6.75 | 682.44 | 1.23 | 34.33 | 0.16 | -8.22 |
| Last 5 | 09:25:02 | 1200.03 | 22.11 | 6.77 | 682.66 | 0.93 | 34.33 | 0.16 | -5.20 |
| Last 5 | 09:30:02 | 1500.03 | 22.20 | 6.78 | 682.31 | 0.72 | 34.33 | 0.16 | -3.48 |
| Last 5 | 09:35:02 | 1800.03 | 22.19 | 6.78 | 682.29 | 0.53 | 34.33 | 0.16 | -2.21 |
| Variance 0 | | | 0.01 | 0.02 | 0.22 | | | 0.00 | 3.02 |
| Variance 1 | | | 0.10 | 0.01 | -0.35 | | | 0.00 | 1.73 |
| Variance 2 | | | -0.01 | 0.01 | -0.02 | | | -0.00 | 1.26 |

Notes

Sampled at 0940

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-03 12:02:19

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-19
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.25 in
Tubing Length 62.6 ft

Pump placement from TOC 57.63 ft

Well Information:

Well ID PZ-19
Well diameter 2 in
Well Total Depth 62.63 ft
Screen Length 10 ft
Depth to Water 35.91 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.084261 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.09 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 11:38:47 | 600.03 | 23.68 | 6.99 | 716.38 | 1.32 | 35.99 | 0.38 | 10.73 |
| Last 5 | 11:43:47 | 900.03 | 23.55 | 6.96 | 715.55 | 0.60 | 36.00 | 0.32 | 19.24 |
| Last 5 | 11:48:47 | 1200.03 | 23.62 | 6.95 | 714.82 | 0.89 | 36.00 | 0.26 | 22.56 |
| Last 5 | 11:53:47 | 1500.03 | 23.63 | 6.94 | 717.51 | 0.41 | 36.00 | 0.24 | 24.37 |
| Last 5 | 11:58:47 | 1800.03 | 23.60 | 6.93 | 721.14 | 0.59 | 36.00 | 0.22 | 25.34 |
| Variance 0 | | | 0.07 | -0.01 | -0.73 | | | -0.06 | 3.31 |
| Variance 1 | | | 0.01 | -0.01 | 2.69 | | | -0.02 | 1.82 |
| Variance 2 | | | -0.03 | -0.01 | 3.63 | | | -0.02 | 0.97 |

Notes

PZ-19 sample time 1200

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 09:48:44

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-23
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369323
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Micropurge
Tubing Type HDPE
Tubing Diameter .17 in
Tubing Length 63.6 ft

Pump placement from TOC 58.6 ft

Well Information:

Well ID PZ-23
Well diameter 2 in
Well Total Depth 63.6 ft
Screen Length 10 ft
Depth to Water 52.54 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7638736 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.5 | +/- 10 |
| Last 5 | 09:25:07 | 901.02 | 22.06 | 6.78 | 743.90 | 0.30 | 53.14 | 4.31 | 57.20 |
| Last 5 | 09:30:07 | 1201.02 | 22.08 | 6.78 | 743.03 | 0.32 | 53.14 | 4.31 | 61.67 |
| Last 5 | 09:35:07 | 1501.02 | 22.07 | 6.78 | 742.02 | 0.38 | 53.15 | 4.29 | 69.39 |
| Last 5 | 09:40:07 | 1801.02 | 22.15 | 6.78 | 741.09 | 0.41 | 53.16 | 4.31 | 78.58 |
| Last 5 | 09:45:07 | 2101.02 | 22.24 | 6.78 | 740.63 | 0.26 | 53.16 | 4.29 | 92.90 |
| Variance 0 | | | -0.01 | -0.00 | -1.01 | | | -0.01 | 7.72 |
| Variance 1 | | | 0.08 | 0.00 | -0.93 | | | 0.02 | 9.19 |
| Variance 2 | | | 0.09 | 0.00 | -0.46 | | | -0.02 | 14.32 |

Notes

PZ-23 sample time 0947

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 13:19:09

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-25
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.25 in
Tubing Length 53.2 ft

Pump placement from TOC 48.19 ft

Well Information:

Well ID PZ-25
Well diameter 2 in
Well Total Depth 53.19 ft
Screen Length 10 ft
Depth to Water 34.66 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9935253 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.13 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 12:53:37 | 599.93 | 23.28 | 7.30 | 463.93 | 1.02 | 34.79 | 0.16 | -86.42 |
| Last 5 | 12:58:37 | 899.93 | 23.23 | 7.25 | 462.57 | 0.41 | 34.79 | 0.15 | -90.49 |
| Last 5 | 13:03:37 | 1199.93 | 23.23 | 7.23 | 464.56 | 0.34 | 34.79 | 0.14 | -92.35 |
| Last 5 | 13:08:37 | 1499.93 | 23.14 | 7.21 | 464.67 | 0.33 | 34.79 | 0.14 | -93.12 |
| Last 5 | 13:13:37 | 1799.93 | 23.06 | 7.20 | 466.53 | 0.31 | 34.79 | 0.14 | -93.52 |
| Variance 0 | | | -0.00 | -0.03 | 1.99 | | | -0.01 | -1.86 |
| Variance 1 | | | -0.09 | -0.01 | 0.11 | | | -0.00 | -0.77 |
| Variance 2 | | | -0.08 | -0.01 | 1.86 | | | -0.00 | -0.39 |

Notes

PZ-25 sample time 1315. Also collected DUP-02

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-02 10:34:42

Project Information:

Operator Name Ever Guillen
Company Name Wood E&IS
Project Name Plant Mitchell CCR Phase II
Site Name PZ-31
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601534
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter .25 in
Tubing Length 51.60 ft

Pump placement from TOC 66.60 ft

Well Information:

Well ID PZ-31
Well diameter 2 in
Well Total Depth 61.60 ft
Screen Length 10 ft
Depth to Water 42.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9780809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 10:11:50 | 1200.03 | 20.38 | 7.04 | 459.62 | 0.67 | 42.72 | 4.64 | 63.67 |
| Last 5 | 10:16:50 | 1500.03 | 20.43 | 7.05 | 460.35 | 0.54 | 42.72 | 4.66 | 63.56 |
| Last 5 | 10:21:50 | 1800.03 | 20.47 | 7.06 | 459.04 | 0.51 | 42.72 | 4.67 | 63.64 |
| Last 5 | 10:26:50 | 2100.02 | 20.48 | 7.08 | 458.99 | -- | -- | 4.88 | 62.85 |
| Last 5 | 10:31:50 | 2400.02 | 21.12 | 7.09 | 458.93 | -- | -- | 4.90 | 63.05 |
| Variance 0 | | | 0.04 | 0.01 | -1.31 | | | 0.01 | 0.08 |
| Variance 1 | | | 0.00 | 0.02 | -0.06 | | | 0.21 | -0.80 |
| Variance 2 | | | 0.65 | 0.01 | -0.05 | | | 0.02 | 0.20 |

Notes

Sampled at 1025

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-01 16:14:12

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-32
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.25 in
Tubing Length 65.3 ft

Pump placement from TOC 60.3 ft

Well Information:

Well ID PZ-32
Well diameter 2 in
Well Total Depth 65.30 ft
Screen Length 10 ft
Depth to Water 41.57 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.110323 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 10% | +/- 10 |
| Last 5 | 15:49:55 | 600.03 | 21.04 | 7.40 | 322.62 | 0.60 | 41.61 | 0.67 | 77.30 |
| Last 5 | 15:54:55 | 900.02 | 20.97 | 7.41 | 322.23 | 0.64 | 41.61 | 0.61 | 74.94 |
| Last 5 | 15:59:55 | 1200.03 | 20.96 | 7.42 | 321.71 | 0.32 | 41.61 | 0.57 | 73.32 |
| Last 5 | 16:04:55 | 1500.03 | 20.95 | 7.42 | 321.55 | 0.24 | 41.61 | 0.54 | 74.18 |
| Last 5 | 16:09:56 | 1800.61 | 20.90 | 7.43 | 321.47 | 0.20 | 41.61 | 0.53 | 70.92 |
| Variance 0 | | | -0.01 | 0.01 | -0.52 | | | -0.04 | -1.62 |
| Variance 1 | | | -0.00 | 0.00 | -0.15 | | | -0.03 | 0.85 |
| Variance 2 | | | -0.05 | 0.01 | -0.09 | | | -0.01 | -3.25 |

Notes

PZ-32 sample time 1610

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-03 09:52:28

Project Information:

Operator Name Daniel Howard
Company Name Wood E&I S
Project Name Plant Mitchell CCR Phase II
Site Name PZ-33
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type HDPE
Tubing Diameter 0.25 in
Tubing Length 73.6 ft

Pump placement from TOC 68.6 ft

Well Information:

Well ID PZ-33
Well diameter 2 in
Well Total Depth 73.6 ft
Screen Length 10 ft
Depth to Water 52.54 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.190441 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.25 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|---------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 0.5 | +/- 0.1 | +/- 5% | +/- 5 | | +/- 0.2 | +/- 10 |
| Last 5 | 09:29:03 | 900.03 | 21.76 | 7.02 | 614.97 | 0.21 | 52.79 | 0.49 | 1.27 |
| Last 5 | 09:34:03 | 1200.03 | 21.83 | 7.01 | 617.34 | 0.24 | 52.79 | 0.38 | 9.26 |
| Last 5 | 09:39:03 | 1500.03 | 21.81 | 7.01 | 617.67 | 0.24 | 52.79 | 0.32 | 14.08 |
| Last 5 | 09:44:03 | 1800.03 | 21.84 | 7.01 | 618.28 | 0.14 | 52.79 | 0.29 | 17.32 |
| Last 5 | 09:49:03 | 2100.03 | 21.89 | 7.01 | 618.19 | 0.20 | 52.79 | 0.28 | 19.96 |
| Variance 0 | | | -0.01 | -0.00 | 0.33 | | | -0.06 | 4.82 |
| Variance 1 | | | 0.03 | -0.00 | 0.61 | | | -0.03 | 3.24 |
| Variance 2 | | | 0.04 | -0.00 | -0.09 | | | -0.01 | 2.65 |

Notes

PZ-33 sample time 0950.

Grab Samples

APPENDIX C

STATISTICAL ANALYSES

Prediction Limit Summary Table – App. III Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4 Printed 2/24/2020, 1:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | %NDs | Transform | Alpha | Method |
|-------------------------------|-------|------------|------------|-----------|---------|------|------|-------|-----------|----------|--------------------------|
| Boron (mg/L) | PZ-23 | 0.028 | n/a | 9/10/2019 | 0.15 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-15 | 0.028 | n/a | 10/2/2019 | 0.17 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-7D | 0.028 | n/a | 10/3/2019 | 0.24 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-16 | 0.028 | n/a | 10/2/2019 | 0.19 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-17 | 0.028 | n/a | 10/2/2019 | 0.28 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-18 | 0.028 | n/a | 10/3/2019 | 0.35 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-19 | 0.028 | n/a | 10/3/2019 | 0.52 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-25 | 0.028 | n/a | 10/2/2019 | 0.21 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-33 | 0.028 | n/a | 10/3/2019 | 0.36 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-23 | 110 | n/a | 9/10/2019 | 137 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-7D | 110 | n/a | 10/3/2019 | 127 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-17 | 110 | n/a | 10/2/2019 | 115 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-18 | 110 | n/a | 10/3/2019 | 139 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-19 | 110 | n/a | 10/3/2019 | 125 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-14 | 4.8 | n/a | 10/2/2019 | 5.4 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-15 | 4.8 | n/a | 10/2/2019 | 8 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-7D | 4.8 | n/a | 10/3/2019 | 5.9 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-16 | 4.8 | n/a | 10/2/2019 | 7.7 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-17 | 4.8 | n/a | 10/2/2019 | 7.9 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-18 | 4.8 | n/a | 10/3/2019 | 7 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-19 | 4.8 | n/a | 10/3/2019 | 5.6 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| pH (pH units) | PZ-14 | 9.7 | 7.0 | 10/2/2019 | 6.96 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-23 | 9.7 | 7.0 | 9/10/2019 | 6.78 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-7D | 9.7 | 7.0 | 10/3/2019 | 6.85 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-17 | 9.7 | 7.0 | 10/2/2019 | 6.99 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-18 | 9.7 | 7.0 | 10/3/2019 | 6.78 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-19 | 9.7 | 7.0 | 10/3/2019 | 6.93 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-23 | 6.4 | n/a | 9/10/2019 | 45.1 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-15 | 6.4 | n/a | 10/2/2019 | 83 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-7D | 6.4 | n/a | 10/3/2019 | 59.6 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-16 | 6.4 | n/a | 10/2/2019 | 48.5 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-17 | 6.4 | n/a | 10/2/2019 | 104 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-18 | 6.4 | n/a | 10/3/2019 | 95.8 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-19 | 6.4 | n/a | 10/3/2019 | 84.9 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-25 | 6.4 | n/a | 10/2/2019 | 43 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-33 | 6.4 | n/a | 10/3/2019 | 72.1 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Total Dissolved Solids (mg/L) | PZ-23 | 320 | n/a | 9/10/2019 | 420 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-15 | 320 | n/a | 10/2/2019 | 355 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-7D | 320 | n/a | 10/3/2019 | 405 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-17 | 320 | n/a | 10/2/2019 | 415 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-18 | 320 | n/a | 10/3/2019 | 464 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-19 | 320 | n/a | 10/3/2019 | 485 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-33 | 320 | n/a | 10/3/2019 | 414 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |

Prediction Limit Summary Table – App. IIIAll Results

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4 Printed 2/24/2020, 1:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | %NDs | Transform | Alpha | Method |
|------------------------|--------------|--------------|------------|------------------|-------------|------------|-----------|--------------|--------------|-----------------|---------------------------------|
| Boron (mg/L) | PZ-14 | 0.028 | n/a | 10/2/2019 | 0.021 | No | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-23 | 0.028 | n/a | 9/10/2019 | 0.15 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-15 | 0.028 | n/a | 10/2/2019 | 0.17 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-7D | 0.028 | n/a | 10/3/2019 | 0.24 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-16 | 0.028 | n/a | 10/2/2019 | 0.19 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-17 | 0.028 | n/a | 10/2/2019 | 0.28 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-18 | 0.028 | n/a | 10/3/2019 | 0.35 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-19 | 0.028 | n/a | 10/3/2019 | 0.52 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-25 | 0.028 | n/a | 10/2/2019 | 0.21 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Boron (mg/L) | PZ-33 | 0.028 | n/a | 10/3/2019 | 0.36 | Yes | 39 | 5.128 | ln(x) | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-14 | 110 | n/a | 10/2/2019 | 103 | No | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-23 | 110 | n/a | 9/10/2019 | 137 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-15 | 110 | n/a | 10/2/2019 | 101 | No | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-7D | 110 | n/a | 10/3/2019 | 127 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-16 | 110 | n/a | 10/2/2019 | 89.1 | No | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-17 | 110 | n/a | 10/2/2019 | 115 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-18 | 110 | n/a | 10/3/2019 | 139 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-19 | 110 | n/a | 10/3/2019 | 125 | Yes | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-25 | 110 | n/a | 10/2/2019 | 92.3 | No | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Calcium (mg/L) | PZ-33 | 110 | n/a | 10/3/2019 | 110 | No | 39 | 2.564 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-14 | 4.8 | n/a | 10/2/2019 | 5.4 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-23 | 4.8 | n/a | 9/10/2019 | 3.8 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-15 | 4.8 | n/a | 10/2/2019 | 8 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-7D | 4.8 | n/a | 10/3/2019 | 5.9 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-16 | 4.8 | n/a | 10/2/2019 | 7.7 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-17 | 4.8 | n/a | 10/2/2019 | 7.9 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-18 | 4.8 | n/a | 10/3/2019 | 7 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-19 | 4.8 | n/a | 10/3/2019 | 5.6 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-25 | 4.8 | n/a | 10/2/2019 | 2.6 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Chloride (mg/L) | PZ-33 | 4.8 | n/a | 10/3/2019 | 4.1 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Fluoride (mg/L) | PZ-14 | 0.29 | n/a | 10/2/2019 | 0.056 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-23 | 0.29 | n/a | 9/10/2019 | 0.15ND | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-15 | 0.29 | n/a | 10/2/2019 | 0.075 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-7D | 0.29 | n/a | 10/3/2019 | 0.041 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-16 | 0.29 | n/a | 10/2/2019 | 0.053 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-17 | 0.29 | n/a | 10/2/2019 | 0.063 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-18 | 0.29 | n/a | 10/3/2019 | 0.043 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-19 | 0.29 | n/a | 10/3/2019 | 0.084 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-25 | 0.29 | n/a | 10/2/2019 | 0.16 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| Fluoride (mg/L) | PZ-33 | 0.29 | n/a | 10/3/2019 | 0.06 | No | 43 | 34.88 | n/a | 0.000... | NP Inter (normality) ... |
| pH (pH units) | PZ-14 | 9.7 | 7.0 | 10/2/2019 | 6.96 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-23 | 9.7 | 7.0 | 9/10/2019 | 6.78 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-15 | 9.7 | 7.0 | 10/2/2019 | 7.22 | No | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-7D | 9.7 | 7.0 | 10/3/2019 | 6.85 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-16 | 9.7 | 7.0 | 10/2/2019 | 7.22 | No | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-17 | 9.7 | 7.0 | 10/2/2019 | 6.99 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-18 | 9.7 | 7.0 | 10/3/2019 | 6.78 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-19 | 9.7 | 7.0 | 10/3/2019 | 6.93 | Yes | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-25 | 9.7 | 7.0 | 10/2/2019 | 7.2 | No | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |
| pH (pH units) | PZ-33 | 9.7 | 7.0 | 10/3/2019 | 7.01 | No | 44 | 0 | n/a | 0.001914 | NP Inter (normality) ... |

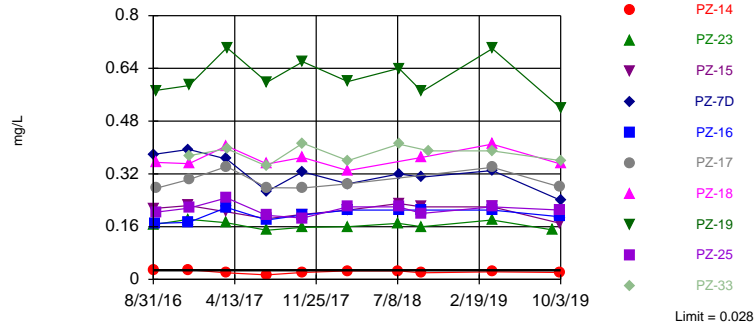
Prediction Limit Summary Table – App. IIIAll Results

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4 Printed 2/24/2020, 1:02 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------------------|--------------|-------------------|-------------------|------------------|----------------|-------------|-------------|-------------|------------------|-----------------|---------------------------------|
| Sulfate (mg/L) | PZ-14 | 6.4 | n/a | 10/2/2019 | 6.2 | No | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-23 | 6.4 | n/a | 9/10/2019 | 45.1 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-15 | 6.4 | n/a | 10/2/2019 | 83 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-7D | 6.4 | n/a | 10/3/2019 | 59.6 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-16 | 6.4 | n/a | 10/2/2019 | 48.5 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-17 | 6.4 | n/a | 10/2/2019 | 104 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-18 | 6.4 | n/a | 10/3/2019 | 95.8 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-19 | 6.4 | n/a | 10/3/2019 | 84.9 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-25 | 6.4 | n/a | 10/2/2019 | 43 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Sulfate (mg/L) | PZ-33 | 6.4 | n/a | 10/3/2019 | 72.1 | Yes | 39 | 0 | n/a | 0.00117 | NP Inter (normality) ... |
| Total Dissolved Solids (mg/L) | PZ-14 | 320 | n/a | 10/2/2019 | 312 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-23 | 320 | n/a | 9/10/2019 | 420 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-15 | 320 | n/a | 10/2/2019 | 355 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-7D | 320 | n/a | 10/3/2019 | 405 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-16 | 320 | n/a | 10/2/2019 | 284 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-17 | 320 | n/a | 10/2/2019 | 415 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-18 | 320 | n/a | 10/3/2019 | 464 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-19 | 320 | n/a | 10/3/2019 | 485 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-25 | 320 | n/a | 10/2/2019 | 312 | No | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | PZ-33 | 320 | n/a | 10/3/2019 | 414 | Yes | 39 | 0 | No | 0.000... | Param Inter 1 of 2 |

Exceeds Limit: PZ-23, PZ-15, PZ-7D, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-33

Prediction Limit
Interwell Parametric

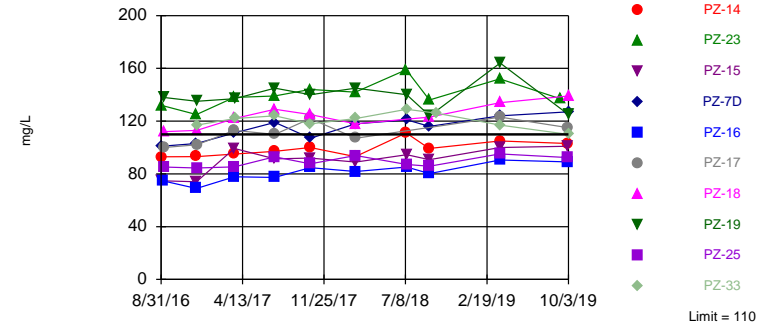


Background Data Summary (based on natural log transformation): Mean=-4.342, Std. Dev.=0.3785, n=39, 5.128% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9586, critical = 0.917. Kappa = 2.072 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Boron Analysis Run 2/24/2020 12:59 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Exceeds Limit: PZ-23, PZ-7D, PZ-17, PZ-18, PZ-19

Prediction Limit
Interwell Parametric

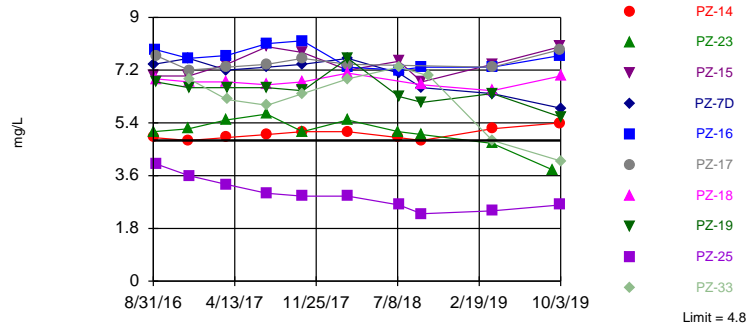


Background Data Summary: Mean=55.01, Std. Dev.=25.36, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9312, critical = 0.917. Kappa = 2.072 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Calcium Analysis Run 2/24/2020 12:59 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Exceeds Limit: PZ-14, PZ-15, PZ-7D, PZ-16, PZ-17, PZ-18, PZ-19

Prediction Limit
Interwell Parametric

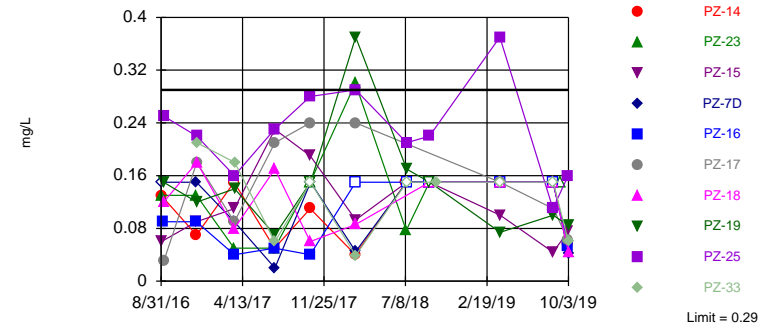


Background Data Summary: Mean=3.292, Std. Dev.=0.7191, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9239, critical = 0.917. Kappa = 2.072 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Chloride Analysis Run 2/24/2020 12:59 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 43 background values. 34.88% NDs. Annual per-constituent alpha = 0.01971. Individual comparison alpha = 0.0009949 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 2/24/2020 12:59 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-18 | PZ-17 | PZ-19 |
|------------|------------|-------|------------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 0.0132 (X) | | | | | | | | |
| 8/31/2016 | | 0.166 | 0.0285 (X) | | | | | | |
| 9/1/2016 | | | | 0.379 | 0.215 | | | | |
| 9/6/2016 | | | | | | 0.17 | | | |
| 9/7/2016 | | | | | | | 0.355 | 0.276 | 0.573 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 0.0096 (X) | | | | | | | | |
| 12/7/2016 | | 0.182 | 0.0292 (X) | 0.394 | 0.224 | 0.173 | | | |
| 12/8/2016 | | | | | | | 0.351 | 0.303 | 0.588 |
| 3/21/2017 | 0.0082 (X) | 0.172 | 0.0198 (X) | | | | | | |
| 3/22/2017 | | | | 0.365 | 0.205 | 0.218 | 0.405 | 0.342 | |
| 3/23/2017 | | | | | | | | | 0.703 |
| 7/11/2017 | 0.0067 (X) | 0.149 | 0.0137 (X) | | | 0.18 | | | |
| 7/12/2017 | | | | 0.267 | 0.184 | | 0.35 | 0.278 | 0.598 |
| 10/17/2017 | 0.0083 (X) | | | | | | | | |
| 10/18/2017 | | 0.158 | 0.0212 (X) | | 0.197 | 0.195 | 0.37 | 0.277 | |
| 10/19/2017 | | | | 0.326 | | | | | 0.66 |
| 2/20/2018 | 0.024 (X) | 0.16 | 0.026 (X) | | | | | | |
| 2/21/2018 | | | | 0.29 | 0.21 | 0.21 | 0.33 | 0.29 | 0.6 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 0.017 (X) | 0.17 | 0.026 (X) | | | | | | |
| 7/12/2018 | | | | 0.32 | 0.23 | 0.21 | | | 0.64 |
| 9/12/2018 | 0.012 (X) | | 0.02 (X) | | | | | | |
| 9/13/2018 | | 0.16 | | 0.31 | 0.22 | 0.21 | 0.37 | | |
| 9/14/2018 | | | | | | | | | 0.57 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 0.0082 (X) | | | | | | | | |
| 3/27/2019 | | 0.18 | 0.023 (X) | | | 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 |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 0.204 | | | | |
| 10/18/2016 | | 0.0174 (X) | 0.0156 (X) | | |
| 12/6/2016 | | 0.0133 (X) | | | |
| 12/7/2016 | | | 0.0157 (X) | | |
| 12/8/2016 | 0.216 | | | 0.375 | |
| 3/21/2017 | | 0.0103 (X) | | | |
| 3/22/2017 | 0.247 | | | | |
| 3/23/2017 | | | 0.0103 (X) | 0.396 | |
| 7/11/2017 | 0.194 | <0.04 | <0.04 | | |
| 7/12/2017 | | | | 0.343 | |
| 10/17/2017 | | 0.0116 (X) | 0.0142 (X) | | |
| 10/18/2017 | 0.186 | | | | |
| 10/19/2017 | | | | 0.413 | |
| 2/20/2018 | | 0.046 (X) | 0.011 (X) | | |
| 2/21/2018 | 0.22 | | | 0.36 | |
| 4/12/2018 | | | | | 0.016 (X) |
| 5/23/2018 | | | | | 0.018 (X) |
| 6/13/2018 | | | | | 0.014 (X) |
| 7/11/2018 | | 0.014 (X) | 0.014 (X) | | 0.017 (X) |
| 7/12/2018 | 0.22 | | | 0.41 | |
| 9/12/2018 | | 0.0098 (X) | | | 0.013 (X) |
| 9/13/2018 | 0.2 | | 0.013 (X) | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 0.39 | 0.016 (X) |
| 10/24/2018 | | | | | 0.018 (X) |
| 3/26/2019 | | 0.0076 (X) | | | |
| 3/27/2019 | 0.22 | | 0.012 (X) | | 0.016 (X) |
| 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 | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-18 | PZ-17 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 40.4 | | | | | | | | |
| 8/31/2016 | | 132 | 92.9 | | | | | | |
| 9/1/2016 | | | | 101 | 74.8 | | | | |
| 9/6/2016 | | | | | | 74.6 | | | |
| 9/7/2016 | | | | | | | 112 | 100 | 138 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 43.3 | | | | | | | | |
| 12/7/2016 | | 125 | 93.1 | 103 | 74 | 68.9 | | | |
| 12/8/2016 | | | | | | | 113 | 102 | 135 |
| 3/21/2017 | 44.1 | 138 | 95 | | | | | | |
| 3/22/2017 | | | | 111 | 99.3 | 77.8 | 122 | 113 | |
| 3/23/2017 | | | | | | | | | 137 |
| 7/11/2017 | 47.4 | 139 | 97.1 | | | 77.3 | | | |
| 7/12/2017 | | | | 119 | 91.4 | | 129 | 110 | 145 |
| 10/17/2017 | 48.7 | | | | | | | | |
| 10/18/2017 | | 144 | 100 | | 92 | 84.7 | 125 | 122 | |
| 10/19/2017 | | | | 107 | | | | | 140 |
| 2/20/2018 | 46.8 | 142 | 93.1 | | | | | | |
| 2/21/2018 | | | | 118 | 89 | 81.8 | 118 | 107 | 145 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 65.3 | 159 | 111 | | | | | | |
| 7/12/2018 | | | | 121 | 94.5 | 85.2 | | | 140 |
| 9/12/2018 | 46.6 | | 99.3 | | | | | | |
| 9/13/2018 | | 136 | | 116 | 90.8 | 80.2 | 123 | | |
| 9/14/2018 | | | | | | | | | 124 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 43.3 | | | | | | | | |
| 3/27/2019 | | 152 | 105 | | | 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 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 85.2 | | | | |
| 10/18/2016 | | 88.3 | 57.2 | | |
| 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 | 86 | 59.7 | | |
| 7/12/2017 | | | | 124 | |
| 10/17/2017 | | 91.6 | 64.9 | | |
| 10/18/2017 | 87.6 | | | | |
| 10/19/2017 | | | | 118 | |
| 2/20/2018 | | 86.5 | 64.1 | | |
| 2/21/2018 | 93.9 | | | 122 | |
| 4/12/2018 | | | | | <25 |
| 5/23/2018 | | | | | 17.6 (X) |
| 6/13/2018 | | | | | 14.3 |
| 7/11/2018 | | 95.4 | 60.4 | | 15.6 |
| 7/12/2018 | 87.1 | | | 129 | |
| 9/12/2018 | | 86 | | | 26.9 |
| 9/13/2018 | 85.8 | | 58.7 | | |
| 9/14/2018 | | | | | |
| 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 | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-18 | PZ-17 | PZ-19 |
|------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
| 8/30/2016 | 3.1 (B) | | | | | | | | |
| 8/31/2016 | | 5.1 | 4.9 | | | | | | |
| 9/1/2016 | | | | 7.4 | 7 | | | | |
| 9/6/2016 | | | | | | 7.9 (B) | | | |
| 9/7/2016 | | | | | | | 6.9 (B) | 7.7 (B) | 6.8 (B) |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 3.4 | | | | | | | | |
| 12/7/2016 | | 5.2 | 4.8 | 7.6 | 7 | 7.6 | | | |
| 12/8/2016 | | | | | | | 6.8 | 7.2 | 6.6 |
| 3/21/2017 | 2.9 | 5.5 | 4.9 | | | | | | |
| 3/22/2017 | | | | 7.2 | 7.4 | 7.7 | 6.8 | 7.3 | |
| 3/23/2017 | | | | | | | | | 6.6 |
| 7/11/2017 | 3.4 | 5.7 | 5 | | | 8.1 | | | |
| 7/12/2017 | | | | 7.3 | 8 | | 6.7 | 7.4 | 6.6 |
| 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 | 5.5 | 5.1 | | | | | | |
| 2/21/2018 | | | | 7.6 | 7.2 | 7.3 | 7.1 | 7.4 | 7.6 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 2.9 | 5.1 | 4.9 | | | | | | |
| 7/12/2018 | | | | 7.1 | 7.5 | 7.2 | | | 6.3 |
| 9/12/2018 | 2.8 | | 4.8 | | | | | | |
| 9/13/2018 | | 5 | | 6.6 | 6.8 | 7.3 | 6.7 | | |
| 9/14/2018 | | | | | | | | | 6.1 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 3.3 | | | | | | | | |
| 3/27/2019 | | 4.7 | 5.2 | | | 7.3 | 6.5 | | |
| 3/28/2019 | | | | 6.4 | 7.4 | | | 7.3 | 6.4 |
| 9/10/2019 | | 3.8 | | | | | | | |
| 10/1/2019 | 3.6 | | | | | | | | |
| 10/2/2019 | | | 5.4 | | 8 | 7.7 | | 7.9 | |
| 10/3/2019 | | | | 5.9 | | | 7 | | 5.6 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | |
| 9/12/2018 | | 3.7 | | | 2.3 |
| 9/13/2018 | 2.3 | | 2.2 | | |
| 9/14/2018 | | | | | |
| 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 | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-18 | PZ-17 | PZ-19 |
|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 8/30/2016 | 0.06 (X) | | | | | | | | |
| 8/31/2016 | | 0.13 (X) | 0.13 (X) | | | | | | |
| 9/1/2016 | | | | <0.3 | 0.06 (X) | | | | |
| 9/6/2016 | | | | | | 0.09 (X) | | | |
| 9/7/2016 | | | | | | | 0.12 (X) | 0.03 (X) | 0.15 (X) |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 0.06 (X) | | | | | | | | |
| 12/7/2016 | | 0.13 (X) | 0.07 (X) | 0.15 (X) | 0.09 (X) | 0.09 (X) | | | |
| 12/8/2016 | | | | | | | 0.18 (X) | 0.18 (X) | 0.12 (X) |
| 3/21/2017 | 0.004 (X) | 0.05 (X) | <0.3 | | | | | | |
| 3/22/2017 | | | | 0.09 (X) | 0.11 (X) | 0.04 (X) | 0.08 (X) | 0.09 (X) | |
| 3/23/2017 | | | | | | | | | 0.14 (X) |
| 7/11/2017 | 0.05 (X) | 0.05 (X) | 0.05 (X) | | | 0.05 (X) | | | |
| 7/12/2017 | | | | 0.02 (X) | 0.23 (X) | | 0.17 (X) | 0.21 (X) | 0.07 (X) |
| 10/17/2017 | <0.3 | | | | | | | | |
| 10/18/2017 | | <0.3 | 0.11 (X) | | 0.19 (X) | 0.04 (X) | 0.06 (X) | 0.24 (X) | |
| 10/19/2017 | | | | <0.3 | | | | | <0.3 |
| 2/20/2018 | 0.098 (X) | 0.3 (X) | 0.04 (X) | | | | | | |
| 2/21/2018 | | | | 0.045 (X) | 0.093 (X) | <0.3 | 0.086 (X) | 0.24 (X) | 0.37 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | <0.3 | 0.077 (X) | <0.3 | | | | | | |
| 7/12/2018 | | | | <0.3 | <0.3 | <0.3 | | | 0.17 (X) |
| 9/12/2018 | 0.034 (X) | | <0.3 | | | | | | |
| 9/13/2018 | | <0.3 | | <0.3 | 0.15 (X) | <0.3 | <0.3 | | |
| 9/14/2018 | | | | | | | | | <0.3 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | <0.3 | | | | | | | | |
| 3/27/2019 | | <0.3 | <0.3 | | | <0.3 | <0.3 | | |
| 3/28/2019 | | | | <0.3 | 0.1 (X) | | | 0.15 (X) | 0.074 (X) |
| 8/20/2019 | <0.3 | | | | | | | | |
| 8/21/2019 | | <0.3 | <0.3 | | 0.044 (X) | <0.3 | | | |
| 8/22/2019 | | | | <0.3 | | | <0.3 | 0.11 (X) | 0.1 (X) |
| 9/10/2019 | | <0.3 | | | | | | | |
| 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) |

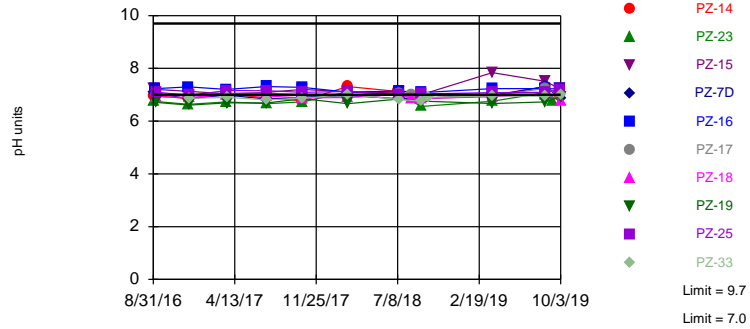
Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 (X) | | | | |
| 10/18/2016 | | 0.11 (X) | 0.16 (X) | | |
| 12/6/2016 | | | 0.15 (X) | | |
| 12/7/2016 | | 0.07 (X) | | | |
| 12/8/2016 | 0.22 (X) | | | 0.21 (X) | |
| 3/21/2017 | | | 0.02 (X) | | |
| 3/22/2017 | 0.16 (X) | | | | |
| 3/23/2017 | | <0.3 | | 0.18 (X) | |
| 7/11/2017 | 0.23 (X) | 0.02 (X) | 0.06 (X) | | |
| 7/12/2017 | | | | 0.06 (X) | |
| 10/17/2017 | | <0.3 | 0.05 (X) | | |
| 10/18/2017 | 0.28 (X) | | | | |
| 10/19/2017 | | | | <0.3 | |
| 2/20/2018 | | <0.3 | 0.21 (X) | | |
| 2/21/2018 | 0.29 (X) | | | 0.039 (X) | |
| 4/12/2018 | | | | | <0.3 |
| 5/23/2018 | | | | | 0.063 (X) |
| 6/13/2018 | | | | | 0.11 (X) |
| 7/11/2018 | | <0.3 | 0.087 (X) | | <0.3 |
| 7/12/2018 | 0.21 (X) | | | <0.3 | |
| 9/12/2018 | | | 0.049 (X) | | 0.093 (X) |
| 9/13/2018 | 0.22 (X) | <0.3 | | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 0.15 (X) | 0.15 (X) |
| 10/24/2018 | | | | | 0.29 (X) |
| 3/26/2019 | | | <0.3 | | |
| 3/27/2019 | 0.37 | <0.3 | | | 0.04 (X) |
| 3/28/2019 | | | | <0.3 | |
| 8/20/2019 | | <0.3 | | | |
| 8/21/2019 | 0.11 (X) | | <0.3 | | 0.046 (X) |
| 8/22/2019 | | | | <0.3 | |
| 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) | |

Exceeds Limits: PZ-14, PZ-23, PZ-7D, PZ-17, PZ-18, PZ-19

Prediction Limit
Interwell Non-parametric

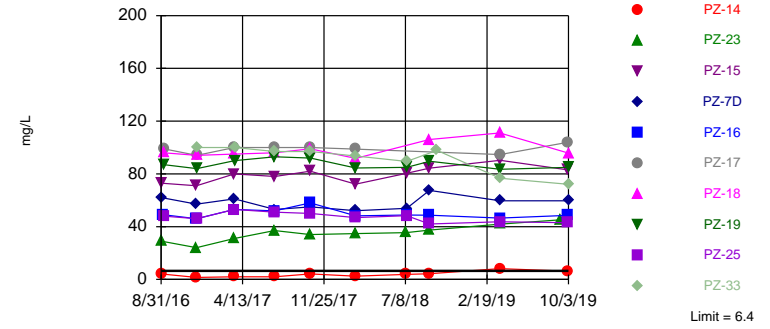


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 44 background values. Annual per-constituent alpha = 0.03794. Individual comparison alpha = 0.001914 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 2/24/2020 12:59 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Exceeds Limit: PZ-23, PZ-15, PZ-7D, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-33

Prediction Limit
Interwell Non-parametric

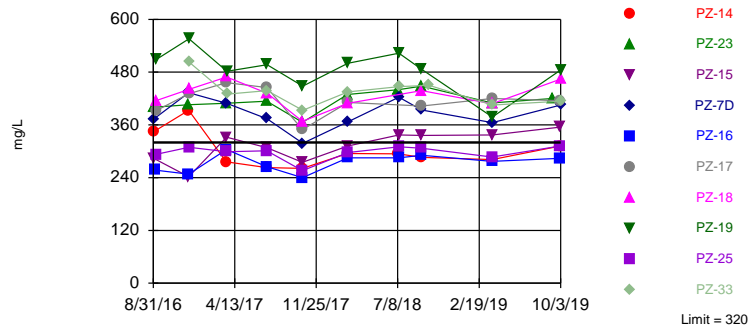


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.02314. Individual comparison alpha = 0.00117 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 2/24/2020 1:00 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Exceeds Limit: PZ-23, PZ-15, PZ-7D, PZ-17, PZ-18, PZ-19, PZ-33

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=173.1, Std. Dev.=70.3, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9488, critical = 0.917. Kappa = 2.072 (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: Total Dissolved Solids Analysis Run 2/24/2020 1:00 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Prediction Limit

Constituent: pH (pH units) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-17 | PZ-19 | PZ-18 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 7.62 | | | | | | | | |
| 8/31/2016 | | 6.75 | 6.97 | | | | | | |
| 9/1/2016 | | | | 7.07 | 7.21 | | | | |
| 9/6/2016 | | | | | | 7.23 | | | |
| 9/7/2016 | | | | | | | 7.02 | 6.71 | 6.92 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 7.57 | | | | | | | | |
| 12/7/2016 | | 6.64 | 6.85 | 6.85 | 7.13 | 7.3 | | | |
| 12/8/2016 | | | | | | | 6.95 | 6.61 | 6.9 |
| 3/21/2017 | 7.54 | 6.73 | 7.04 | | | | | | |
| 3/22/2017 | | | | 6.99 | 7.04 | 7.2 | 7.05 | | 7 |
| 3/23/2017 | | | | | | | | 6.69 | |
| 7/11/2017 | 7.43 | 6.66 | 6.88 | | | 7.31 | | | |
| 7/12/2017 | | | | 6.83 | 7.09 | | 7.06 | 6.69 | 6.95 |
| 10/17/2017 | 7.7 | | | | | | | | |
| 10/18/2017 | | 6.73 | 6.77 | | 7.2 | 7.28 | 6.99 | | 6.88 |
| 10/19/2017 | | | | 6.91 | | | | 6.85 | |
| 2/20/2018 | 7.57 | 7.11 | 7.31 | | | | | | |
| 2/21/2018 | | | | 6.97 | 7.11 | 7.1 | 6.95 | 6.66 | 6.89 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 7.48 | 7 | 7.12 | | | | | | |
| 7/12/2018 | | | | 6.85 | 7.07 | 7.14 | 7.06 | 6.84 | 7.01 |
| 8/15/2018 | | | | | | | | | 6.87 |
| 8/16/2018 | | | | | | | 7.01 | | |
| 8/17/2018 | | | | | | | | | |
| 9/12/2018 | 7.41 | | 6.87 | | | | | | |
| 9/13/2018 | | 6.56 | | 6.88 | 7.01 | 7.08 | | | 6.86 |
| 9/14/2018 | | | | | | | 6.83 | 6.76 | |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 7.49 | | | | | | | | |
| 3/27/2019 | | 6.75 | 6.98 | | | 7.23 | | | 6.92 |
| 3/28/2019 | | | | 6.96 | 7.84 | | 6.97 | 6.67 | |
| 8/20/2019 | 7.87 | | | | | | | | |
| 8/21/2019 | | 7.08 | 7.31 | | 7.51 | 7.23 | | | |
| 8/22/2019 | | | | 7.31 | | | 7.24 | 6.73 | 7.02 |
| 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 |

Prediction Limit

Constituent: pH (pH units) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 7.1 | | | | |
| 10/18/2016 | | 7.15 | 7.45 | | |
| 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 | | | 7.26 | 6.9 | |
| 7/11/2017 | 7.15 | 6.96 | 7.31 | | |
| 7/12/2017 | | | | 6.81 | |
| 10/17/2017 | | 7.31 | 7.29 | | |
| 10/18/2017 | 7.09 | | | | |
| 10/19/2017 | | | | 6.86 | |
| 2/20/2018 | | 7.37 | 7.26 | | |
| 2/21/2018 | 7.12 | | | 7.02 | |
| 4/12/2018 | | | | | 9.54 |
| 5/23/2018 | | | | | 9.57 |
| 6/13/2018 | | | | | 9.71 |
| 7/11/2018 | | 7.26 | 7.39 | | 9.48 |
| 7/12/2018 | 7.01 | | | 6.82 | |
| 8/15/2018 | | | | | |
| 8/16/2018 | | | | | |
| 8/17/2018 | | | | | 9.31 |
| 9/12/2018 | | 7.02 | | | 9.07 |
| 9/13/2018 | 7.03 | | 7.25 | | |
| 9/14/2018 | | | | 6.75 | |
| 10/4/2018 | | | | 6.9 | 9.16 |
| 10/24/2018 | | | | | 9.29 |
| 3/26/2019 | | 7 | | | |
| 3/27/2019 | 7.08 | | 7.42 | | 8.76 |
| 3/28/2019 | | | | 6.96 | |
| 8/20/2019 | | | 7.36 | | |
| 8/21/2019 | 7.09 | 7.44 | | | 8.76 |
| 8/22/2019 | | | | 6.94 | |
| 9/10/2019 | | | | | |
| 10/1/2019 | | | 7.43 | | |
| 10/2/2019 | 7.2 | 7.09 | | | 8.97 |
| 10/3/2019 | | | | 7.01 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-18 | PZ-17 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 2.1 | | | | | | | | |
| 8/31/2016 | | 29 | 4.1 | | | | | | |
| 9/1/2016 | | | | 62 | 73 | | | | |
| 9/6/2016 | | | | | | 49 | | | |
| 9/7/2016 | | | | | | | 96 | 99 | 87 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 2.4 | | | | | | | | |
| 12/7/2016 | | 24 | 1.5 | 57 | 71 | 46 | | | |
| 12/8/2016 | | | | | | | 94 | 94 | 84 |
| 3/21/2017 | 2.5 | 31 | 2 | | | | | | |
| 3/22/2017 | | | | 61 | 80 | 53 | 95 | 100 | |
| 3/23/2017 | | | | | | | | | 90 |
| 7/11/2017 | 2.6 | 37 | 2 | | | 52 | | | |
| 7/12/2017 | | | | 53 | 78 | | 96 | 100 | 93 |
| 10/17/2017 | 2.5 | | | | | | | | |
| 10/18/2017 | | 34 | 4.2 | | 82 | 58 | 99 | 100 | |
| 10/19/2017 | | | | 55 | | | | | 92 |
| 2/20/2018 | 2.3 | 34.7 | 2.4 | | | | | | |
| 2/21/2018 | | | | 52.1 | 72.2 | 48.2 | 91.8 | 98.8 | 84.5 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 2.5 | 35.4 | 3.8 | | | | | | |
| 7/12/2018 | | | | 53.9 | 80.5 | 48.8 | | | 84.9 |
| 9/12/2018 | 2 | | 4.3 | | | | | | |
| 9/13/2018 | | 37.4 | | 67.5 | 84.4 | 48.7 | 106 | | |
| 9/14/2018 | | | | | | | | | 89.5 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 2.7 | | | | | | | | |
| 3/27/2019 | | 41.9 | 8.2 | | | 46.5 | 111 | | |
| 3/28/2019 | | | | 59.6 | 90.3 | | | 94.7 | 83.5 |
| 9/10/2019 | | 45.1 | | | | | | | |
| 10/1/2019 | 2.8 | | | | | | | | |
| 10/2/2019 | | | 6.2 | | 83 | 48.5 | | 104 | |
| 10/3/2019 | | | | 59.6 | | | 95.8 | | 84.9 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 (X) |
| 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 | |
| 9/12/2018 | | 2.7 | | | 4.4 |
| 9/13/2018 | 42 | | 2.1 | | |
| 9/14/2018 | | | | | |
| 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 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-23 | PZ-14 | PZ-7D | PZ-15 | PZ-16 | PZ-19 | PZ-18 | PZ-17 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 136 | | | | | | | | |
| 8/31/2016 | | 400 | 344 | | | | | | |
| 9/1/2016 | | | | 373 | 284 | | | | |
| 9/6/2016 | | | | | | 257 | | | |
| 9/7/2016 | | | | | | | 508 | 415 | 392 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 207 | | | | | | | | |
| 12/7/2016 | | 406 | 393 | 433 | 242 | 248 | | | |
| 12/8/2016 | | | | | | | 556 | 441 | 431 |
| 3/21/2017 | 128 | 409 | 276 | | | | | | |
| 3/22/2017 | | | | 409 | 332 | 304 | | 469 | 456 |
| 3/23/2017 | | | | | | | 482 | | |
| 7/11/2017 | 138 | 414 | 263 | | | 265 | | | |
| 7/12/2017 | | | | 374 | 308 | | 497 | 432 | 445 |
| 10/17/2017 | 101 | | | | | | | | |
| 10/18/2017 | | 366 | 261 | | 275 | 240 | | 368 | 349 |
| 10/19/2017 | | | | 318 | | | 448 | | |
| 2/20/2018 | 138 | 429 | 295 | | | | | | |
| 2/21/2018 | | | | 367 | 312 | 285 | 500 | 409 | 411 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 153 | 440 | 294 | | | | | | |
| 7/12/2018 | | | | 423 | 337 | 285 | 523 | | |
| 9/12/2018 | 146 | | 286 | | | | | | |
| 9/13/2018 | | 448 | | 394 | 336 | 291 | | 438 | |
| 9/14/2018 | | | | | | | 486 | | 403 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 334 | | | | | | | | |
| 3/27/2019 | | 410 | 281 | | | 277 | | 408 | |
| 3/28/2019 | | | | 365 | 337 | | 378 | | 420 |
| 9/10/2019 | | 420 | | | | | | | |
| 10/1/2019 | 146 | | | | | | | | |
| 10/2/2019 | | | 312 | | 355 | 284 | | | 415 |
| 10/3/2019 | | | | 405 | | | 485 | 464 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/24/2020 1:02 PM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 293 | | | | |
| 10/18/2016 | | 264 | 152 | | |
| 12/6/2016 | | 299 | | | |
| 12/7/2016 | | | 214 | | |
| 12/8/2016 | 309 | | | 503 | |
| 3/21/2017 | | 260 | | | |
| 3/22/2017 | 299 | | | | |
| 3/23/2017 | | | 165 | 430 | |
| 7/11/2017 | 301 | 244 | 162 | | |
| 7/12/2017 | | | | 438 | |
| 10/17/2017 | | 218 | 140 | | |
| 10/18/2017 | 256 | | | | |
| 10/19/2017 | | | | 393 | |
| 2/20/2018 | | 264 | 163 | | |
| 2/21/2018 | 297 | | | 435 | |
| 4/12/2018 | | | | | 69 |
| 5/23/2018 | | | | | 62 |
| 6/13/2018 | | | | | 93 |
| 7/11/2018 | | 273 | 192 | | 84 |
| 7/12/2018 | 310 | | | 447 | |
| 9/12/2018 | | 252 | | | 97 |
| 9/13/2018 | 307 | | 192 | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 450 | 103 |
| 10/24/2018 | | | | | 110 |
| 3/26/2019 | | 253 | | | |
| 3/27/2019 | 287 | | 167 | | 87 |
| 3/28/2019 | | | | 405 | |
| 9/10/2019 | | | | | |
| 10/1/2019 | | | 187 | | |
| 10/2/2019 | 312 | 263 | | | 95 |
| 10/3/2019 | | | | 414 | |

Sen Slope - Significant

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4 Printed 2/24/2020, 1:09 PM

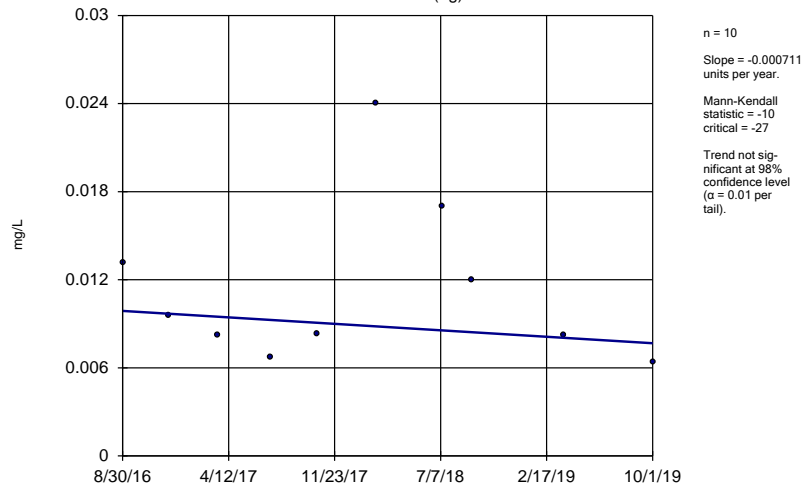
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|----------------------|-------------------|----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| pH (pH units) | PZ-2D (bg) | -0.6498 | -38 | -31 | Yes | 11 | 0 | n/a | n/a | 0.02 | NP |

Sen Slope - All

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4 Printed 2/24/2020, 1:09 PM

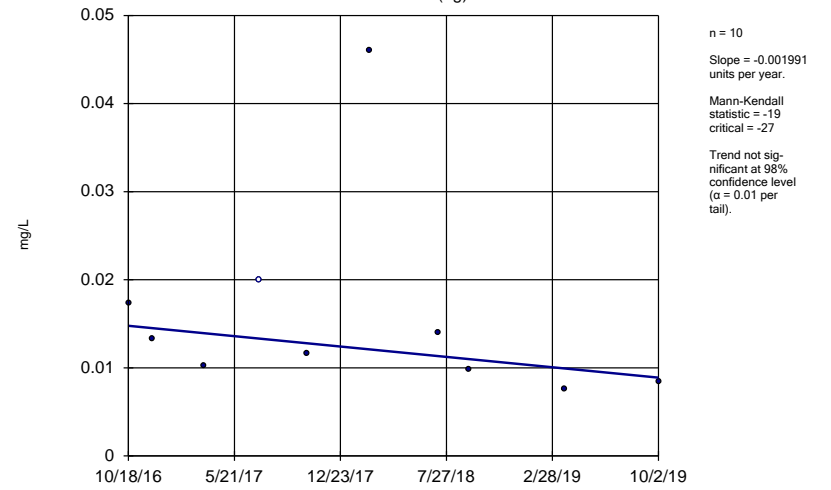
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|-------------------|----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L) | PZ-1D (bg) | -0.00... | -10 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | PZ-31 (bg) | -0.00... | -19 | -27 | No | 10 | 10 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | PZ-32 (bg) | -0.00... | -18 | -27 | No | 10 | 10 | n/a | n/a | 0.02 | NP |
| Boron (mg/L) | PZ-2D (bg) | -0.00... | -8 | -23 | No | 9 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | PZ-1D (bg) | 1.867 | 13 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | PZ-31 (bg) | 1.071 | 12 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | PZ-32 (bg) | 1.851 | 11 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/L) | PZ-2D (bg) | 11.58 | 16 | 23 | No | 9 | 11.11 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | PZ-1D (bg) | 0 | 0 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | PZ-31 (bg) | -0.3724 | -24 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | PZ-32 (bg) | -0.164 | -15 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/L) | PZ-2D (bg) | 0.1142 | 9 | 23 | No | 9 | 0 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | PZ-1D (bg) | 0.02291 | 16 | 31 | No | 11 | 36.36 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | PZ-31 (bg) | -0.00... | -4 | -31 | No | 11 | 18.18 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | PZ-32 (bg) | 0 | 8 | 31 | No | 11 | 63.64 | n/a | n/a | 0.02 | NP |
| Fluoride (mg/L) | PZ-2D (bg) | -0.01364 | -5 | -27 | No | 10 | 20 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-1D (bg) | -0.02483 | -8 | -31 | No | 11 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-31 (bg) | 0.02343 | 5 | 31 | No | 11 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-32 (bg) | 0.02591 | 7 | 31 | No | 11 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-2D (bg) | -0.6498 | -38 | -31 | Yes | 11 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | PZ-1D (bg) | 0.1304 | 16 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | PZ-31 (bg) | -1.607 | -22 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | PZ-32 (bg) | 0.1633 | 19 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/L) | PZ-2D (bg) | -0.2891 | -2 | -23 | No | 9 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | PZ-1D (bg) | 6.822 | 15 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | PZ-31 (bg) | -3.476 | -6 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | PZ-32 (bg) | 6.152 | 10 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/L) | PZ-2D (bg) | 30.96 | 18 | 23 | No | 9 | 0 | n/a | n/a | 0.02 | NP |

Sen's Slope Estimator
PZ-1D (bg)



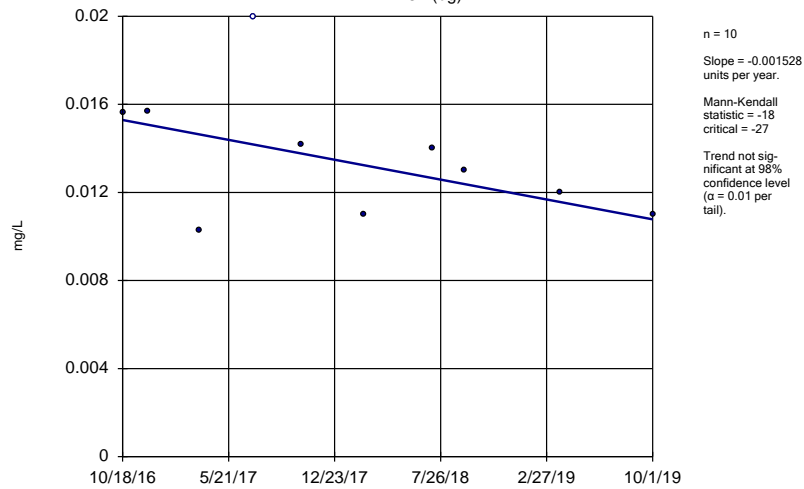
Constituent: Boron Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-31 (bg)



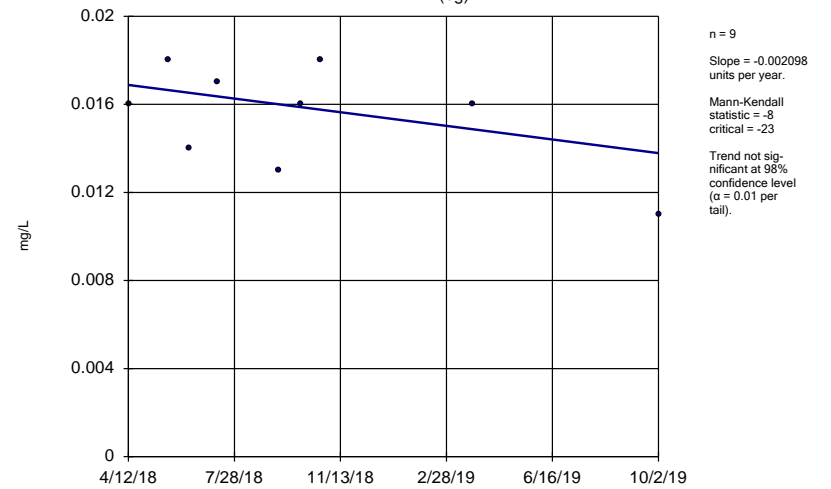
Constituent: Boron Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-32 (bg)



Constituent: Boron Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-2D (bg)



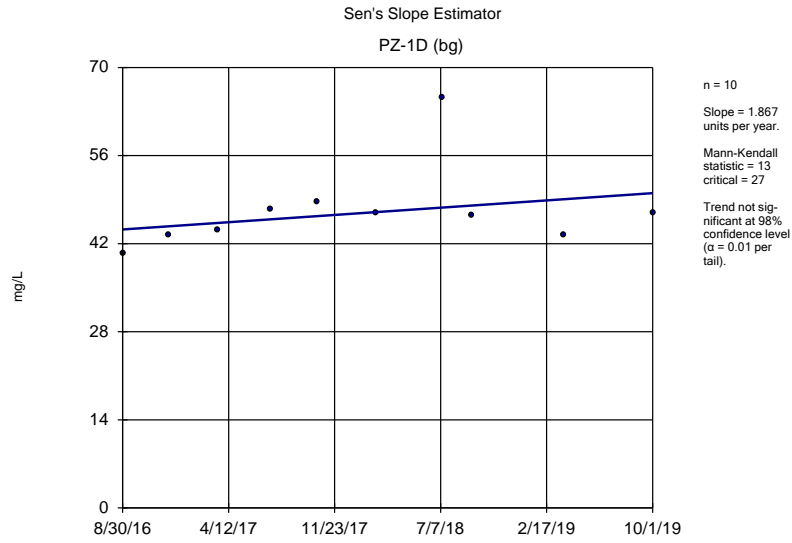
Constituent: Boron Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator

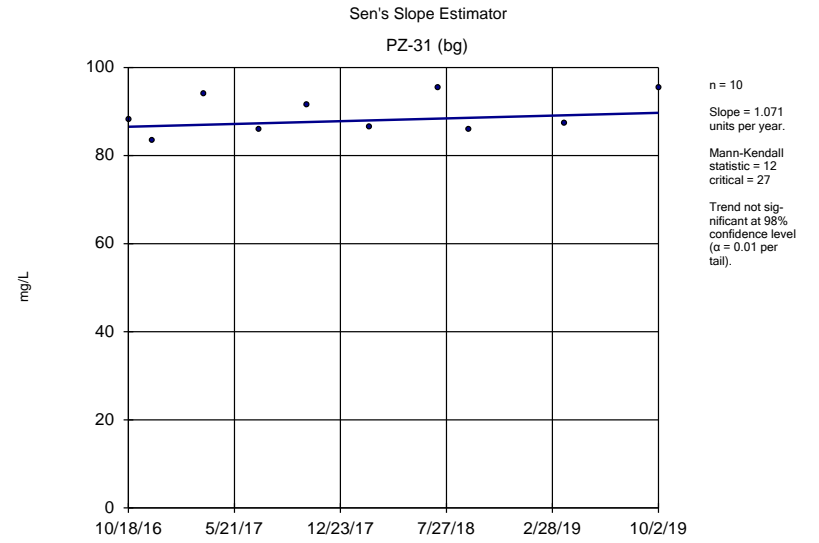
Constituent: Boron Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

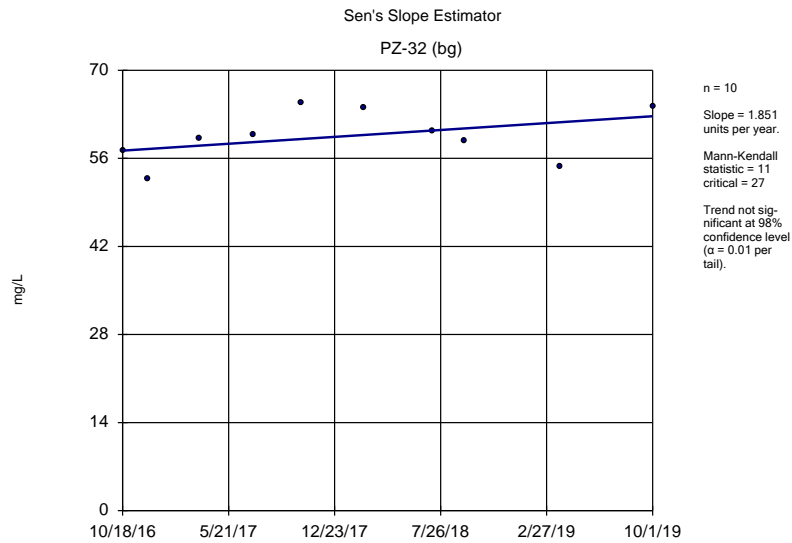
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 0.0132 (X) | | | |
| 10/18/2016 | | 0.0174 (X) | 0.0156 (X) | |
| 12/6/2016 | 0.0096 (X) | 0.0133 (X) | | |
| 12/7/2016 | | | 0.0157 (X) | |
| 3/21/2017 | 0.0082 (X) | 0.0103 (X) | | |
| 3/23/2017 | | | 0.0103 (X) | |
| 7/11/2017 | 0.0067 (X) | <0.04 | <0.04 | |
| 10/17/2017 | 0.0083 (X) | 0.0116 (X) | 0.0142 (X) | |
| 2/20/2018 | 0.024 (X) | 0.046 (X) | 0.011 (X) | |
| 4/12/2018 | | | | 0.016 (X) |
| 5/23/2018 | | | | 0.018 (X) |
| 6/13/2018 | | | | 0.014 (X) |
| 7/11/2018 | 0.017 (X) | 0.014 (X) | 0.014 (X) | 0.017 (X) |
| 9/12/2018 | 0.012 (X) | 0.0098 (X) | | 0.013 (X) |
| 9/13/2018 | | | 0.013 (X) | |
| 10/4/2018 | | | | 0.016 (X) |
| 10/24/2018 | | | | 0.018 (X) |
| 3/26/2019 | 0.0082 (X) | 0.0076 (X) | | |
| 3/27/2019 | | | 0.012 (X) | 0.016 (X) |
| 10/1/2019 | 0.0064 (X) | | 0.011 (X) | |
| 10/2/2019 | | 0.0084 (X) | | 0.011 (X) |



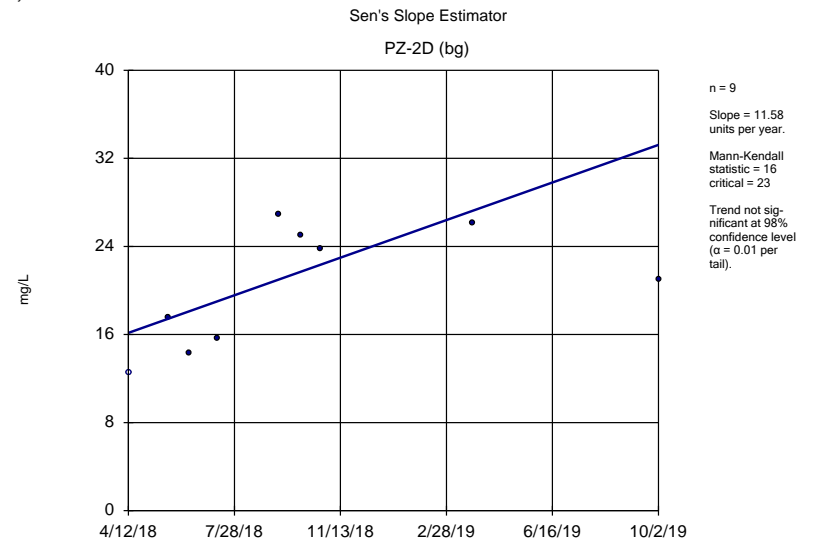
Constituent: Calcium Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Calcium Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Calcium Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Calcium Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

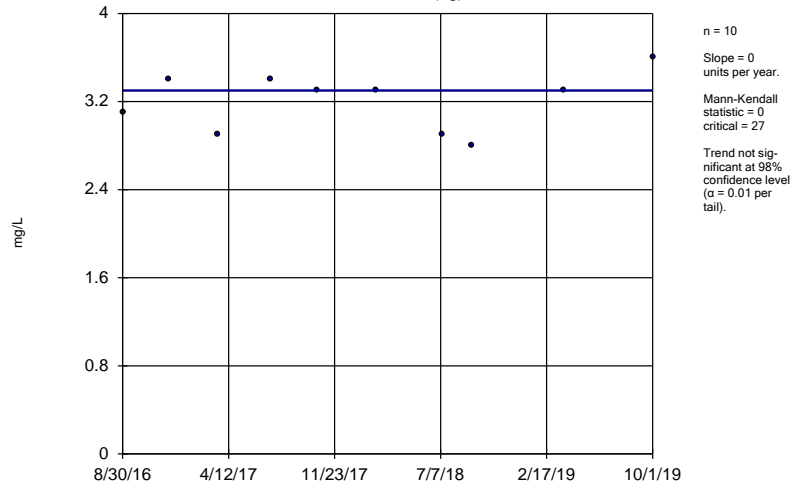
Sen's Slope Estimator

Constituent: Calcium Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

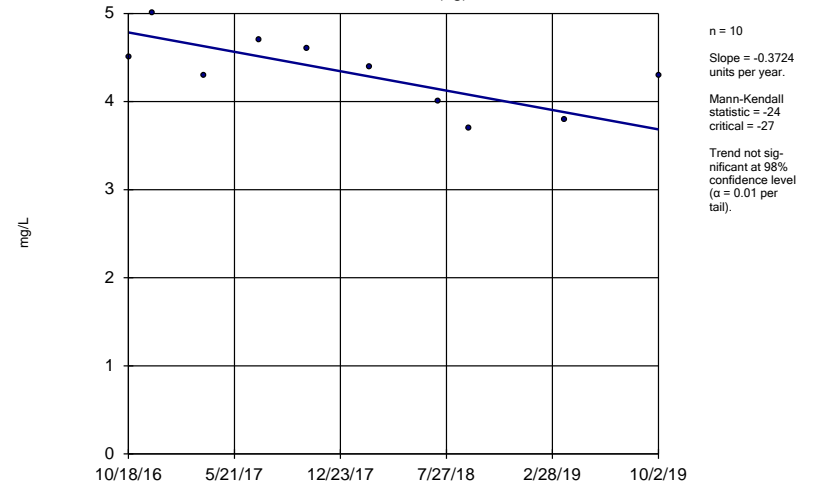
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 40.4 | | | |
| 10/18/2016 | | 88.3 | 57.2 | |
| 12/6/2016 | 43.3 | 83.4 | | |
| 12/7/2016 | | | 52.8 | |
| 3/21/2017 | 44.1 | 94 | | |
| 3/23/2017 | | | 59.1 | |
| 7/11/2017 | 47.4 | 86 | 59.7 | |
| 10/17/2017 | 48.7 | 91.6 | 64.9 | |
| 2/20/2018 | 46.8 | 86.5 | 64.1 | |
| 4/12/2018 | | | | <25 |
| 5/23/2018 | | | | 17.6 (X) |
| 6/13/2018 | | | | 14.3 |
| 7/11/2018 | 65.3 | 95.4 | 60.4 | 15.6 |
| 9/12/2018 | 46.6 | 86 | | 26.9 |
| 9/13/2018 | | | 58.7 | |
| 10/4/2018 | | | | 25 |
| 10/24/2018 | | | | 23.8 |
| 3/26/2019 | 43.3 | 87.3 | | |
| 3/27/2019 | | | 54.6 | 26.1 |
| 10/1/2019 | 46.8 | | 64.3 | |
| 10/2/2019 | | 95.5 | | 21 |

Sen's Slope Estimator
PZ-1D (bg)



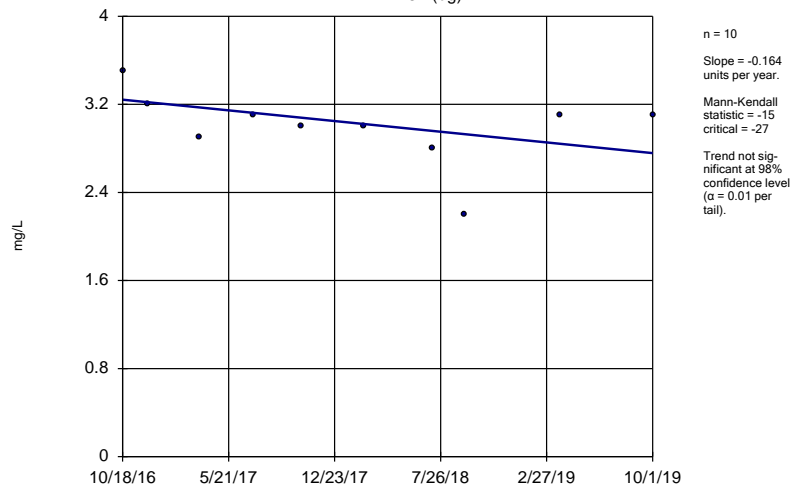
Constituent: Chloride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-31 (bg)



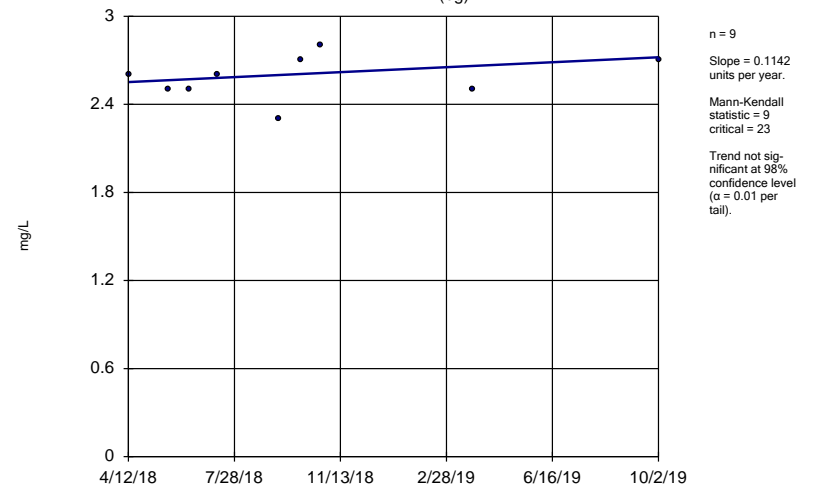
Constituent: Chloride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-32 (bg)



Constituent: Chloride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-2D (bg)



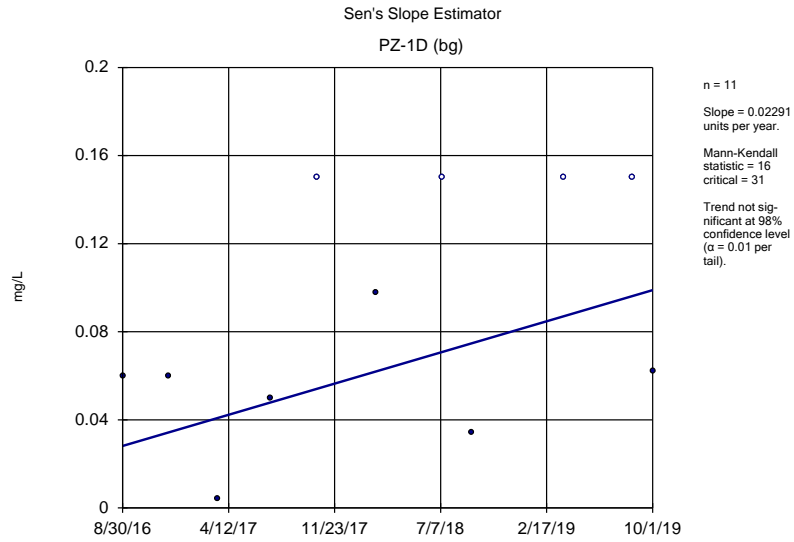
Constituent: Chloride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator

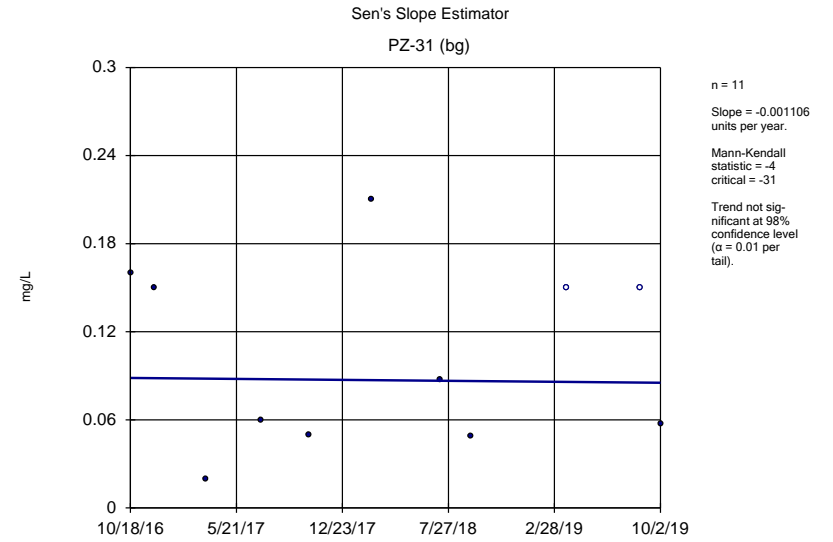
Constituent: Chloride Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

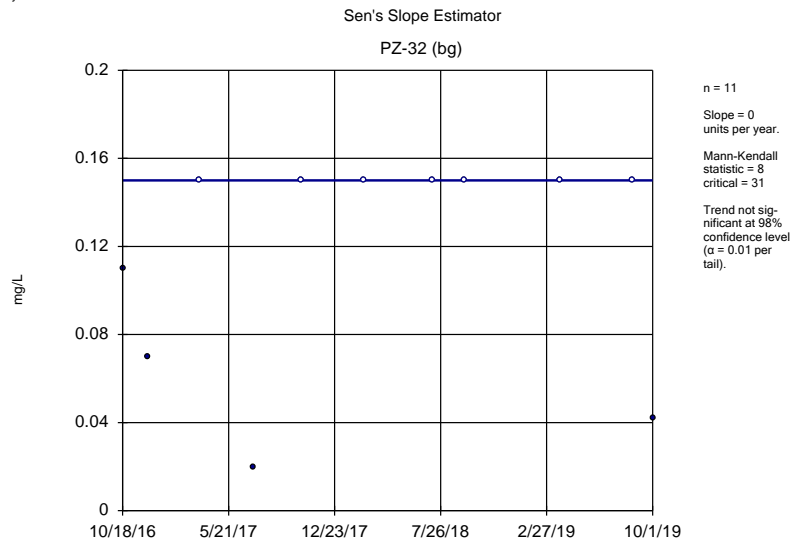
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 3.1 (B) | | | |
| 10/18/2016 | | 4.5 | 3.5 | |
| 12/6/2016 | 3.4 | 5 | | |
| 12/7/2016 | | | 3.2 | |
| 3/21/2017 | 2.9 | 4.3 | | |
| 3/23/2017 | | | 2.9 | |
| 7/11/2017 | 3.4 | 4.7 | 3.1 | |
| 10/17/2017 | 3.3 | 4.6 | 3 | |
| 2/20/2018 | 3.3 | 4.4 | 3 | |
| 4/12/2018 | | | | 2.6 |
| 5/23/2018 | | | | 2.5 |
| 6/13/2018 | | | | 2.5 |
| 7/11/2018 | 2.9 | 4 | 2.8 | 2.6 |
| 9/12/2018 | 2.8 | 3.7 | | 2.3 |
| 9/13/2018 | | | 2.2 | |
| 10/4/2018 | | | | 2.7 |
| 10/24/2018 | | | | 2.8 |
| 3/26/2019 | 3.3 | 3.8 | | |
| 3/27/2019 | | | 3.1 | 2.5 |
| 10/1/2019 | 3.6 | | 3.1 | |
| 10/2/2019 | | 4.3 | | 2.7 |



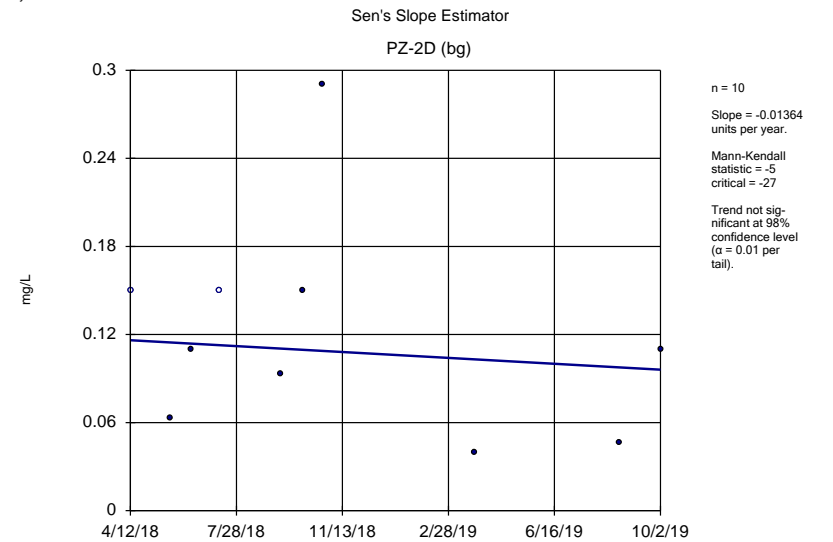
Constituent: Fluoride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Fluoride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Fluoride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Fluoride Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

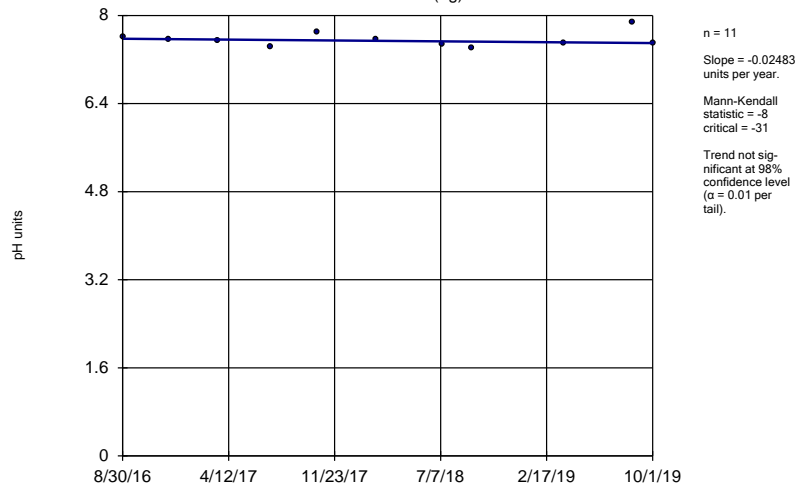
Sen's Slope Estimator

Constituent: Fluoride Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

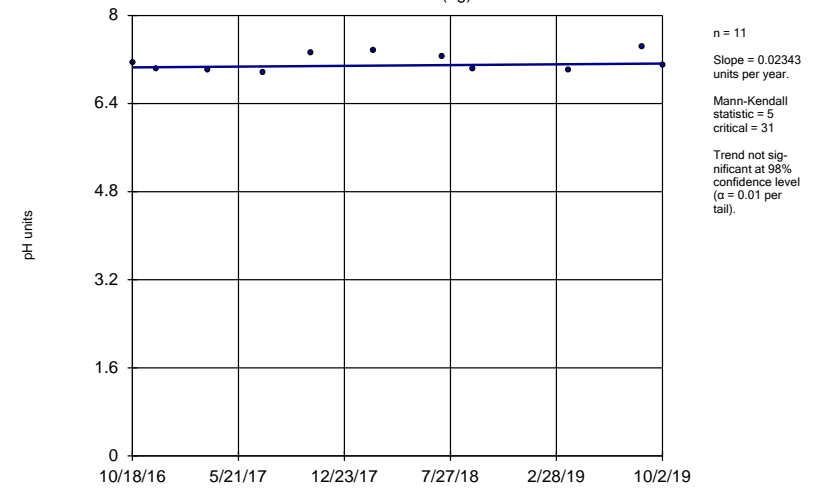
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 0.06 (X) | | | |
| 10/18/2016 | | 0.16 (X) | 0.11 (X) | |
| 12/6/2016 | 0.06 (X) | 0.15 (X) | | |
| 12/7/2016 | | | 0.07 (X) | |
| 3/21/2017 | 0.004 (X) | 0.02 (X) | | |
| 3/23/2017 | | | <0.3 | |
| 7/11/2017 | 0.05 (X) | 0.06 (X) | 0.02 (X) | |
| 10/17/2017 | <0.3 | 0.05 (X) | <0.3 | |
| 2/20/2018 | 0.098 (X) | 0.21 (X) | <0.3 | |
| 4/12/2018 | | | | <0.3 |
| 5/23/2018 | | | | 0.063 (X) |
| 6/13/2018 | | | | 0.11 (X) |
| 7/11/2018 | <0.3 | 0.087 (X) | <0.3 | <0.3 |
| 9/12/2018 | 0.034 (X) | 0.049 (X) | | 0.093 (X) |
| 9/13/2018 | | | <0.3 | |
| 10/4/2018 | | | | 0.15 (X) |
| 10/24/2018 | | | | 0.29 (X) |
| 3/26/2019 | <0.3 | <0.3 | | |
| 3/27/2019 | | | <0.3 | 0.04 (X) |
| 8/20/2019 | <0.3 | | <0.3 | |
| 8/21/2019 | | <0.3 | | 0.046 (X) |
| 10/1/2019 | 0.062 (X) | | 0.042 (X) | |
| 10/2/2019 | | 0.057 (X) | | 0.11 (X) |

Sen's Slope Estimator
PZ-1D (bg)



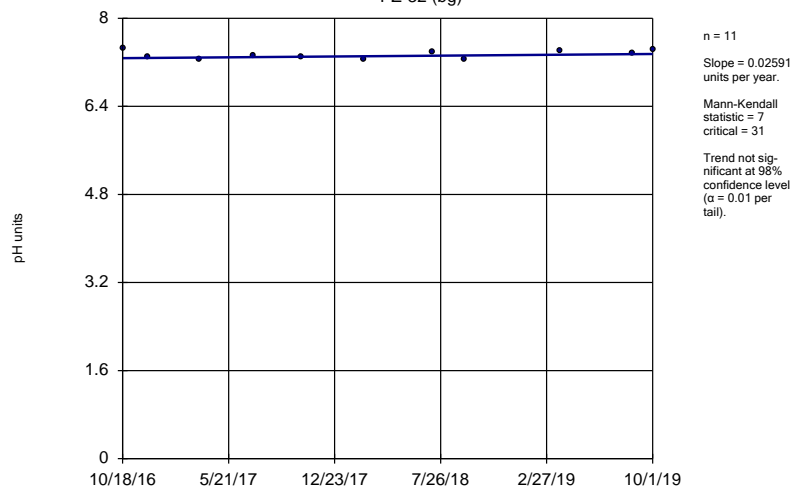
Constituent: pH Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-31 (bg)



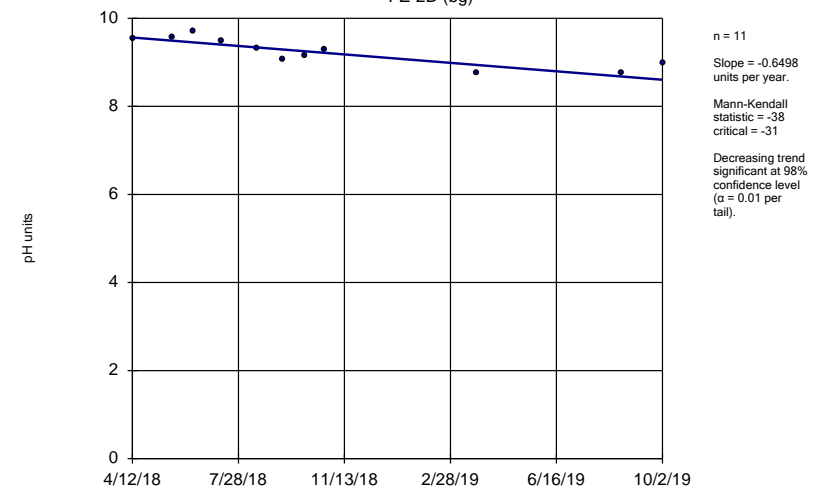
Constituent: pH Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-32 (bg)



Constituent: pH Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-2D (bg)

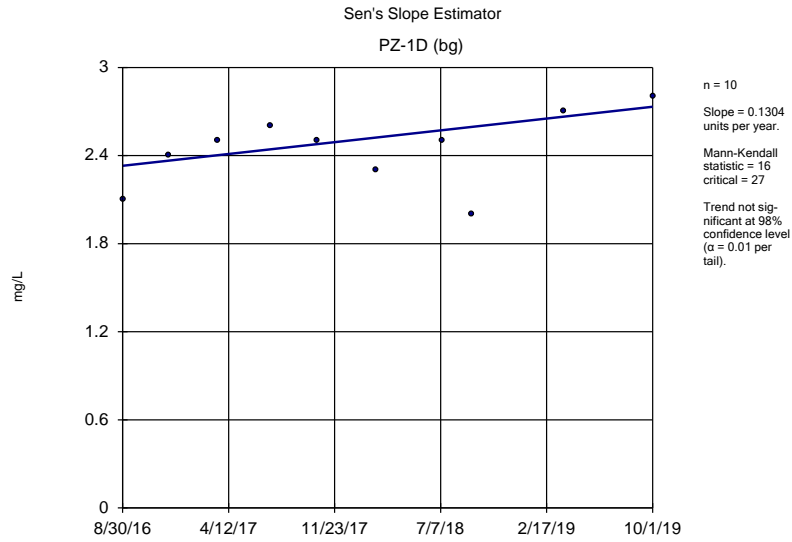


Constituent: pH Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

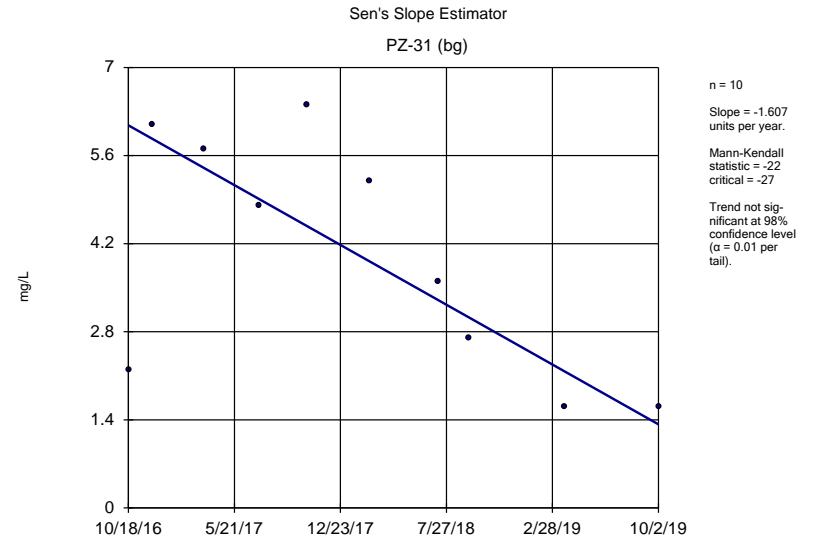
Sen's Slope Estimator

Constituent: pH Analysis Run 2/24/2020 1:09 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

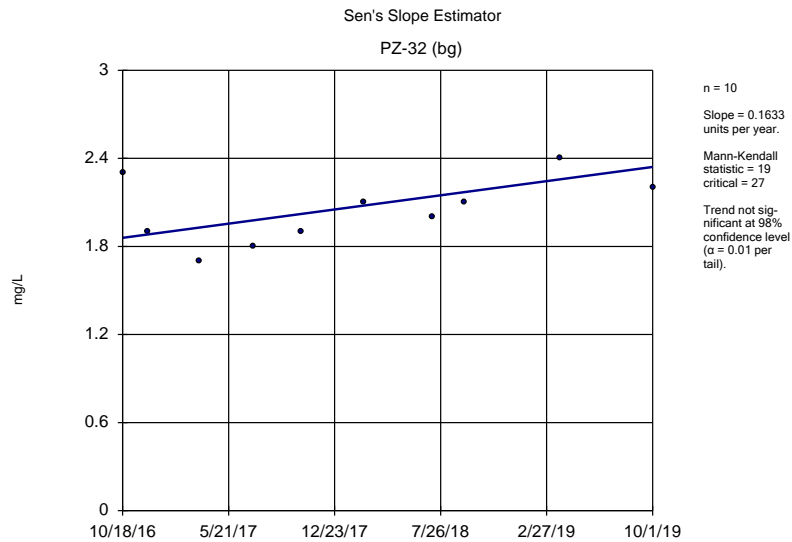
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 7.62 | | | |
| 10/18/2016 | | 7.15 | 7.45 | |
| 12/6/2016 | 7.57 | 7.04 | | |
| 12/7/2016 | | | 7.29 | |
| 3/21/2017 | 7.54 | 7.01 | | |
| 3/23/2017 | | | 7.26 | |
| 7/11/2017 | 7.43 | 6.96 | 7.31 | |
| 10/17/2017 | 7.7 | 7.31 | 7.29 | |
| 2/20/2018 | 7.57 | 7.37 | 7.26 | |
| 4/12/2018 | | | | 9.54 |
| 5/23/2018 | | | | 9.57 |
| 6/13/2018 | | | | 9.71 |
| 7/11/2018 | 7.48 | 7.26 | 7.39 | 9.48 |
| 8/17/2018 | | | | 9.31 |
| 9/12/2018 | 7.41 | 7.02 | | 9.07 |
| 9/13/2018 | | | 7.25 | |
| 10/4/2018 | | | | 9.16 |
| 10/24/2018 | | | | 9.29 |
| 3/26/2019 | 7.49 | 7 | | |
| 3/27/2019 | | | 7.42 | 8.76 |
| 8/20/2019 | 7.87 | | 7.36 | |
| 8/21/2019 | | 7.44 | | 8.76 |
| 10/1/2019 | 7.5 | | 7.43 | |
| 10/2/2019 | | 7.09 | | 8.97 |



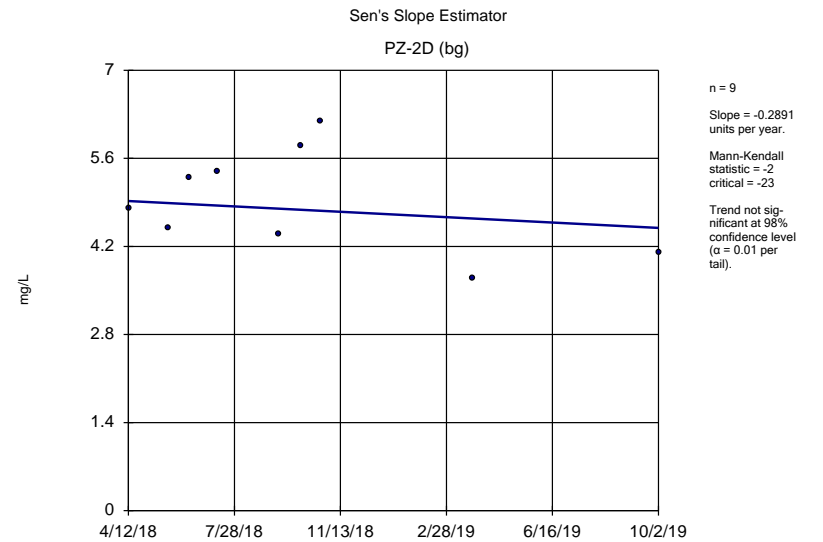
Constituent: Sulfate Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Sulfate Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Sulfate Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Sulfate Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

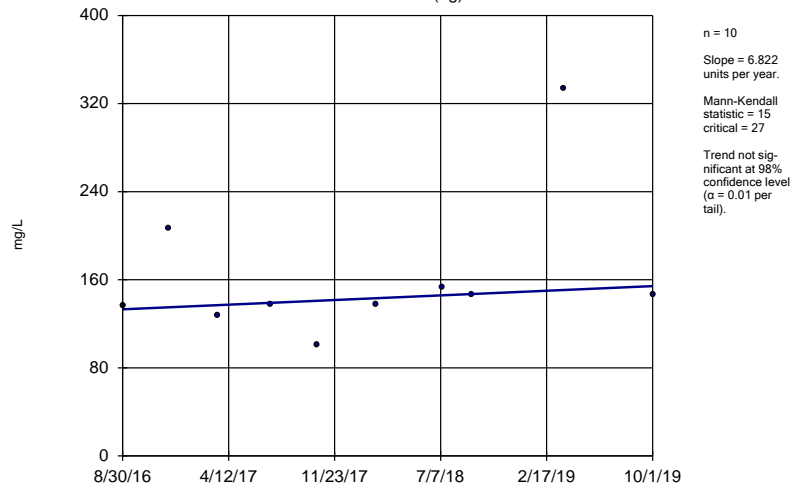
Sen's Slope Estimator

Constituent: Sulfate Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

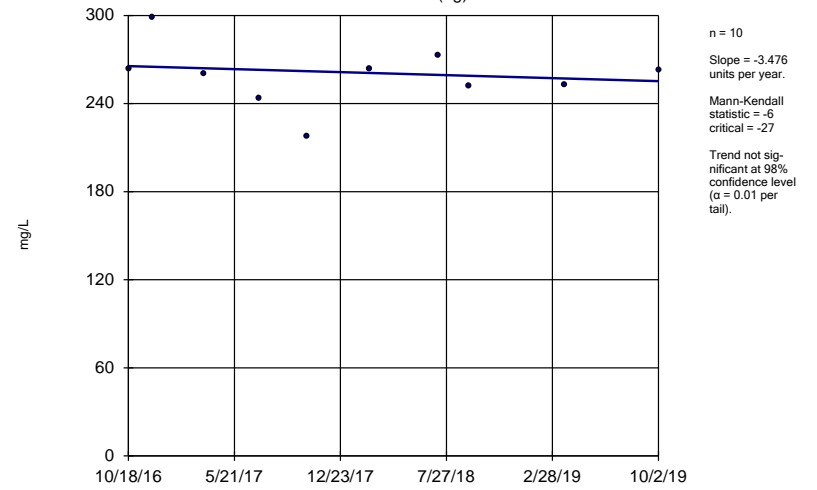
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 2.1 | | | |
| 10/18/2016 | | 2.2 | 2.3 | |
| 12/6/2016 | 2.4 | 6.1 | | |
| 12/7/2016 | | | 1.9 | |
| 3/21/2017 | 2.5 | 5.7 | | |
| 3/23/2017 | | | 1.7 | |
| 7/11/2017 | 2.6 | 4.8 | 1.8 | |
| 10/17/2017 | 2.5 | 6.4 | 1.9 | |
| 2/20/2018 | 2.3 | 5.2 | 2.1 | |
| 4/12/2018 | | | | 4.8 (X) |
| 5/23/2018 | | | | 4.5 |
| 6/13/2018 | | | | 5.3 |
| 7/11/2018 | 2.5 | 3.6 | 2 | 5.4 |
| 9/12/2018 | 2 | 2.7 | | 4.4 |
| 9/13/2018 | | | 2.1 | |
| 10/4/2018 | | | | 5.8 |
| 10/24/2018 | | | | 6.2 |
| 3/26/2019 | 2.7 | 1.6 | | |
| 3/27/2019 | | | 2.4 | 3.7 |
| 10/1/2019 | 2.8 | | 2.2 | |
| 10/2/2019 | | 1.6 | | 4.1 |

Sen's Slope Estimator
PZ-1D (bg)



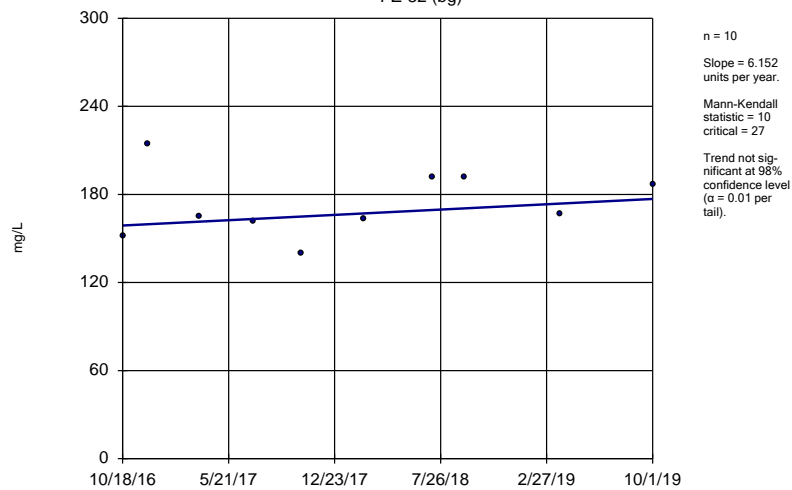
Constituent: Total Dissolved Solids Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-31 (bg)



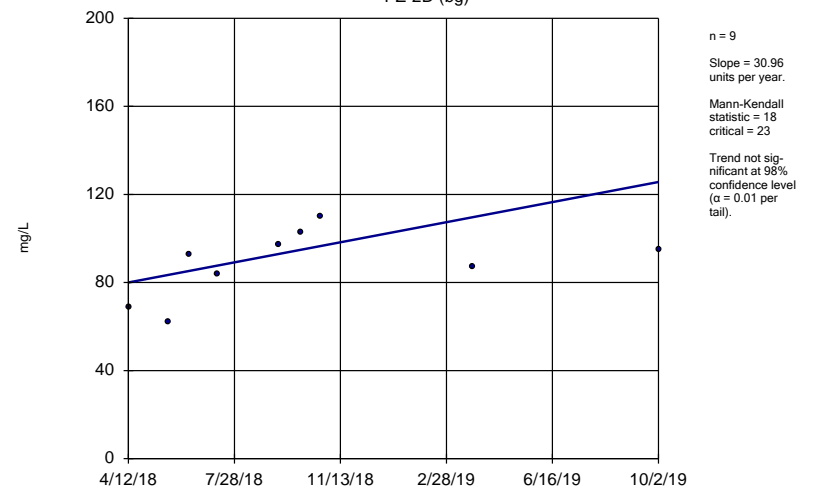
Constituent: Total Dissolved Solids Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-32 (bg)



Constituent: Total Dissolved Solids Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator
PZ-2D (bg)



Constituent: Total Dissolved Solids Analysis Run 2/24/2020 1:07 PM View: App III background only
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Sen's Slope Estimator

Constituent: Total Dissolved Solids Analysis Run 2/24/2020 1:09 PM View: App III background only

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 136 | | | |
| 10/18/2016 | | 264 | 152 | |
| 12/6/2016 | 207 | 299 | | |
| 12/7/2016 | | | 214 | |
| 3/21/2017 | 128 | 260 | | |
| 3/23/2017 | | | 165 | |
| 7/11/2017 | 138 | 244 | 162 | |
| 10/17/2017 | 101 | 218 | 140 | |
| 2/20/2018 | 138 | 264 | 163 | |
| 4/12/2018 | | | | 69 |
| 5/23/2018 | | | | 62 |
| 6/13/2018 | | | | 93 |
| 7/11/2018 | 153 | 273 | 192 | 84 |
| 9/12/2018 | 146 | 252 | | 97 |
| 9/13/2018 | | | 192 | |
| 10/4/2018 | | | | 103 |
| 10/24/2018 | | | | 110 |
| 3/26/2019 | 334 | 253 | | |
| 3/27/2019 | | | 167 | 87 |
| 10/1/2019 | 146 | | 187 | |
| 10/2/2019 | | 263 | | 95 |

Downgradient Sen Slope - Significant

Plant Mitchell Client: Southern Company Data: Mitchel V3 Printed 12/19/2019, 9:52 AM

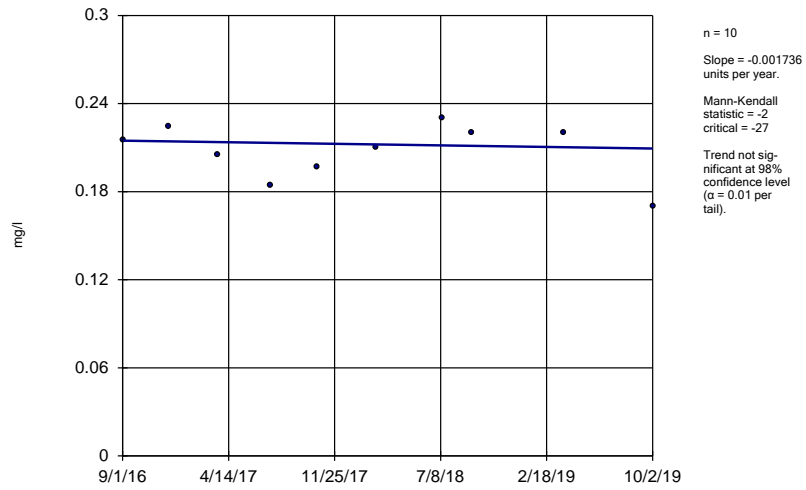
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/l) | PZ-18 | 6.257 | 28 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-7D | 7.604 | 33 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-19 | -0.2744 | -28 | -27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-23 | 5.318 | 37 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-33 | -8.368 | -33 | -27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-15 | 23.88 | 30 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |

Downgradient Sen Slope - All

Plant Mitchell Client: Southern Company Data: Mitchel V3 Printed 12/19/2019, 9:52 AM

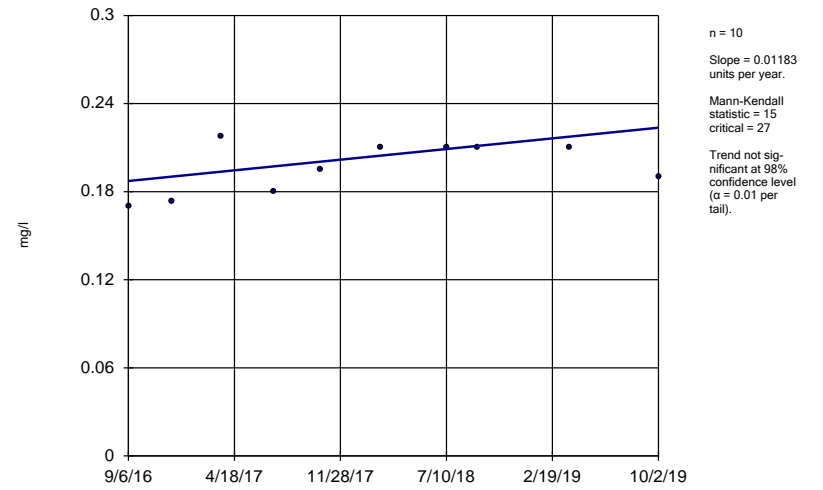
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------------------|--------------|----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/l) | PZ-15 | -0.00... | -2 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-16 | 0.01183 | 15 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-17 | 0.003961 | 11 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-18 | 0 | 3 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-19 | -0.00... | -1 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-23 | -0.00... | -6 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-25 | 0 | 2 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-33 | 0 | -1 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Boron (mg/l) | PZ-7D | -0.03443 | -21 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-17 | 4.803 | 22 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-18 | 6.257 | 28 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-19 | 0.9505 | 3 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-23 | 6.225 | 17 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-33 | 0 | -1 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Calcium (mg/l) | PZ-7D | 7.604 | 33 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-14 | 0.1488 | 20 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-15 | 0.1557 | 10 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-16 | -0.1796 | -11 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-17 | 0.1426 | 14 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-18 | -0.06197 | -11 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-19 | -0.2744 | -28 | -27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Chloride (mg/l) | PZ-7D | -0.4117 | -27 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-18 | -0.03596 | -22 | -31 | No | 11 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-19 | 0.04731 | 12 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-23 | 0.02021 | 9 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| pH (pH units) | PZ-7D | -0.02844 | -10 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-15 | 5.108 | 27 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-16 | -0.5478 | -11 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-17 | 1.58 | 14 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-18 | 3.51 | 18 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-19 | -0.9125 | -8 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-23 | 5.318 | 37 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-25 | -2.836 | -21 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-33 | -8.368 | -33 | -27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Sulfate (mg/l) | PZ-7D | -0.5524 | -2 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-15 | 23.88 | 30 | 27 | Yes | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-17 | -4.78 | -2 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-18 | -0.9148 | -1 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-19 | -13.04 | -15 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-23 | 16.29 | 23 | 27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-33 | 8 | 5 | 23 | No | 9 | 0 | n/a | n/a | 0.02 | NP |
| Total Dissolved Solids (mg/l) | PZ-7D | -3.113 | -5 | -27 | No | 10 | 0 | n/a | n/a | 0.02 | NP |

Sen's Slope Estimator
PZ-15



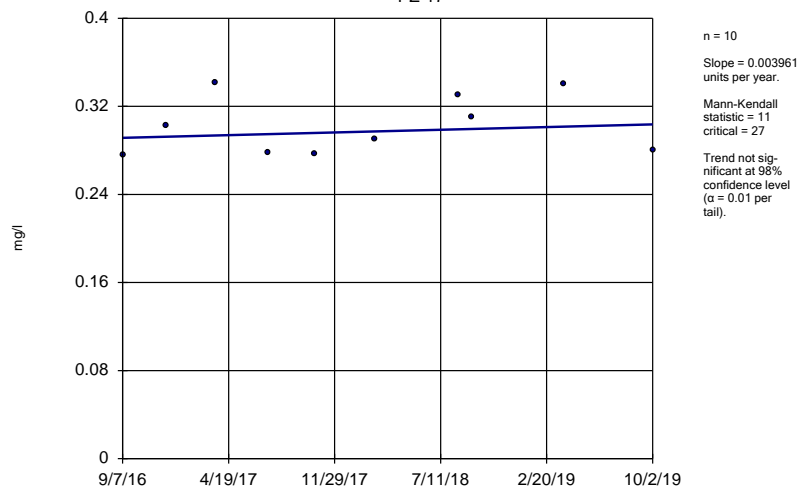
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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-16



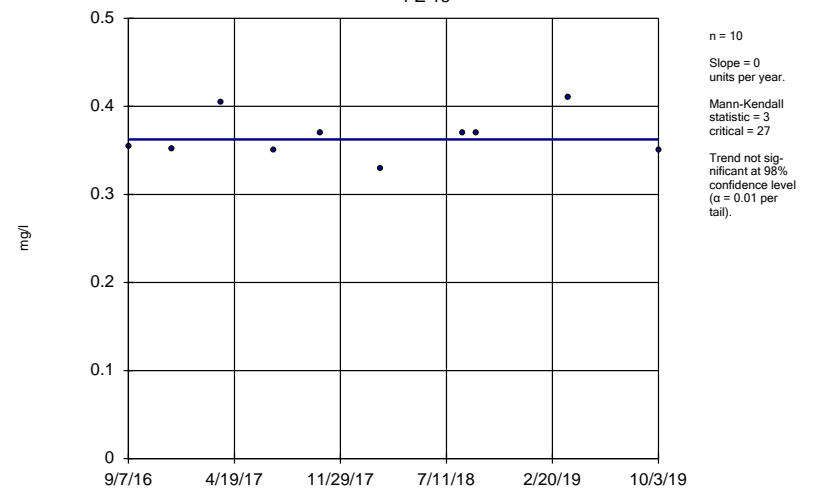
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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-17



Constituent: Boron Analysis Run 12/19/2019 9:46 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-18



Constituent: Boron Analysis Run 12/19/2019 9:46 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-15 |
|------------|-------|
| 9/1/2016 | 0.215 |
| 12/7/2016 | 0.224 |
| 3/22/2017 | 0.205 |
| 7/12/2017 | 0.184 |
| 10/18/2017 | 0.197 |
| 2/21/2018 | 0.21 |
| 7/12/2018 | 0.23 |
| 9/13/2018 | 0.22 |
| 3/28/2019 | 0.22 |
| 10/2/2019 | 0.17 |

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-16 |
|------------|-------|
| 9/6/2016 | 0.17 |
| 12/7/2016 | 0.173 |
| 3/22/2017 | 0.218 |
| 7/11/2017 | 0.18 |
| 10/18/2017 | 0.195 |
| 2/21/2018 | 0.21 |
| 7/12/2018 | 0.21 |
| 9/13/2018 | 0.21 |
| 3/27/2019 | 0.21 |
| 10/2/2019 | 0.19 |

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

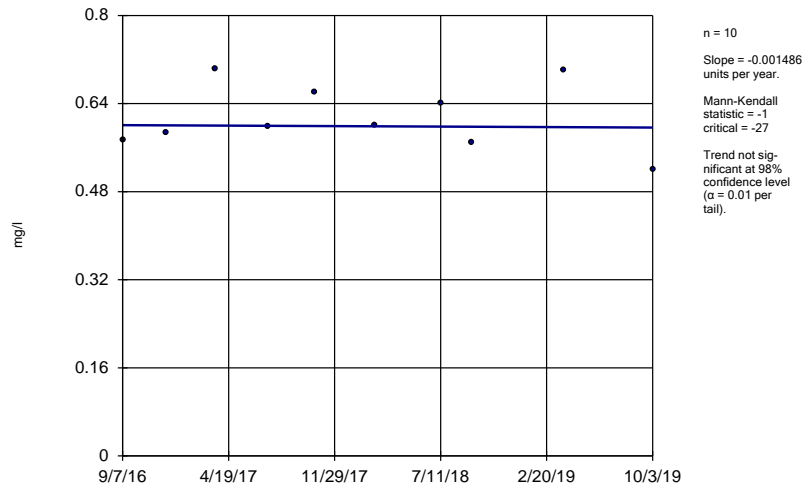
| | PZ-17 |
|------------|-------|
| 9/7/2016 | 0.276 |
| 12/8/2016 | 0.303 |
| 3/22/2017 | 0.342 |
| 7/12/2017 | 0.278 |
| 10/18/2017 | 0.277 |
| 2/21/2018 | 0.29 |
| 8/16/2018 | 0.33 |
| 9/14/2018 | 0.31 |
| 3/28/2019 | 0.34 |
| 10/2/2019 | 0.28 |

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

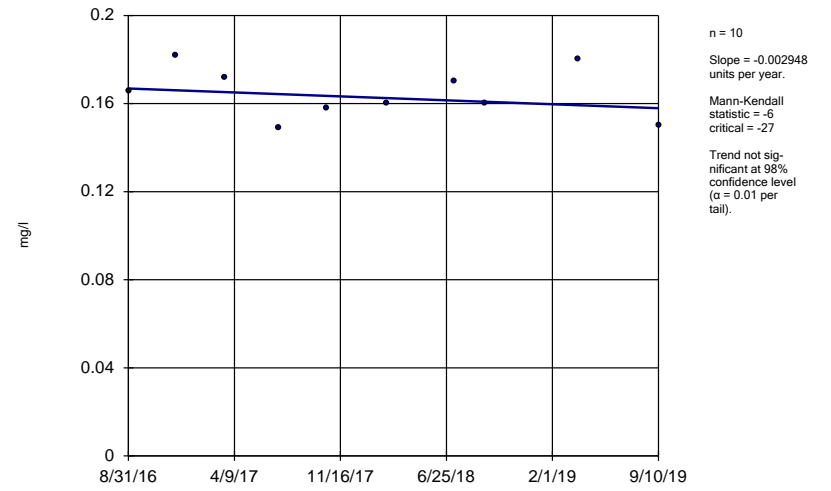
| | PZ-18 |
|------------|-------|
| 9/7/2016 | 0.355 |
| 12/8/2016 | 0.351 |
| 3/22/2017 | 0.405 |
| 7/12/2017 | 0.35 |
| 10/18/2017 | 0.37 |
| 2/21/2018 | 0.33 |
| 8/15/2018 | 0.37 |
| 9/13/2018 | 0.37 |
| 3/27/2019 | 0.41 |
| 10/3/2019 | 0.35 |

Sen's Slope Estimator
PZ-19



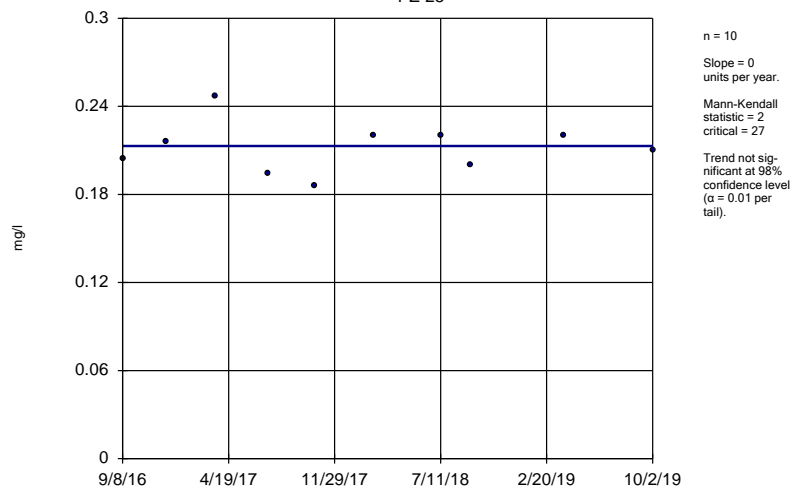
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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-23



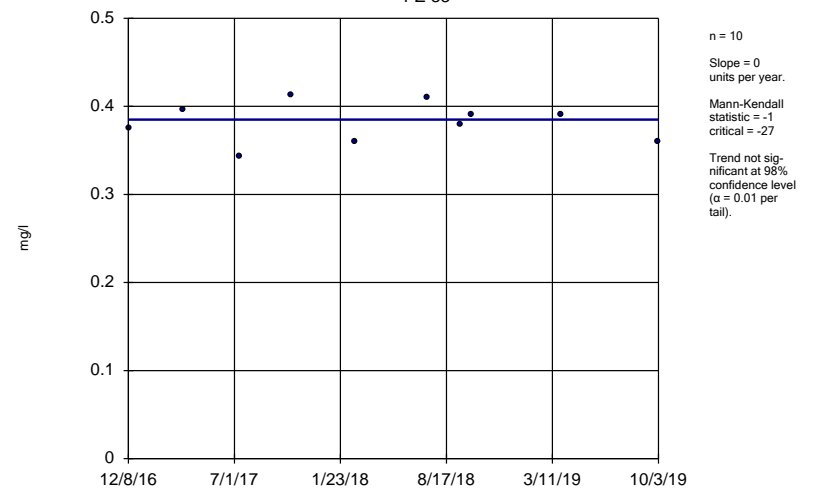
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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-25



Constituent: Boron Analysis Run 12/19/2019 9:46 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-33



Constituent: Boron Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-19 |
|------------|-------|
| 9/7/2016 | 0.573 |
| 12/8/2016 | 0.588 |
| 3/23/2017 | 0.703 |
| 7/12/2017 | 0.598 |
| 10/19/2017 | 0.66 |
| 2/21/2018 | 0.6 |
| 7/12/2018 | 0.64 |
| 9/14/2018 | 0.57 |
| 3/28/2019 | 0.7 |
| 10/3/2019 | 0.52 |

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-23 |
|------------|-------|
| 8/31/2016 | 0.166 |
| 12/7/2016 | 0.182 |
| 3/21/2017 | 0.172 |
| 7/11/2017 | 0.149 |
| 10/18/2017 | 0.158 |
| 2/20/2018 | 0.16 |
| 7/11/2018 | 0.17 |
| 9/13/2018 | 0.16 |
| 3/27/2019 | 0.18 |
| 9/10/2019 | 0.15 |

Sen's Slope Estimator

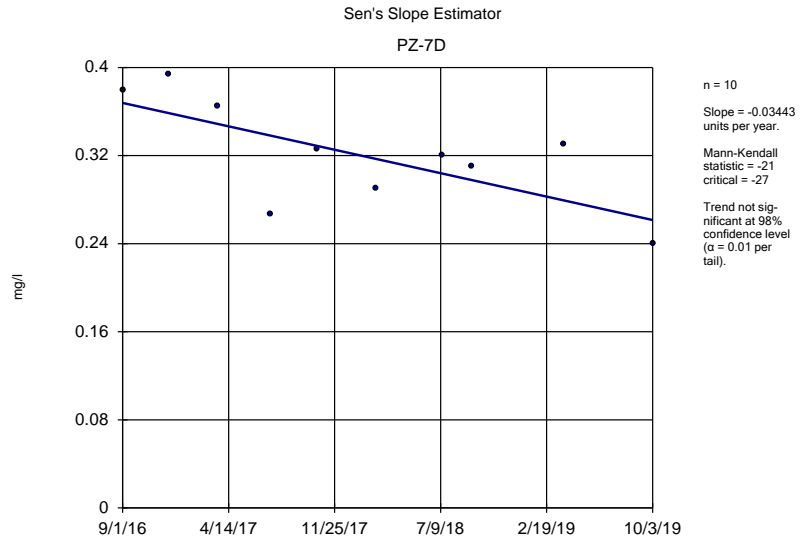
Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-25 |
|------------|-------|
| 9/8/2016 | 0.204 |
| 12/8/2016 | 0.216 |
| 3/22/2017 | 0.247 |
| 7/11/2017 | 0.194 |
| 10/18/2017 | 0.186 |
| 2/21/2018 | 0.22 |
| 7/12/2018 | 0.22 |
| 9/13/2018 | 0.2 |
| 3/27/2019 | 0.22 |
| 10/2/2019 | 0.21 |

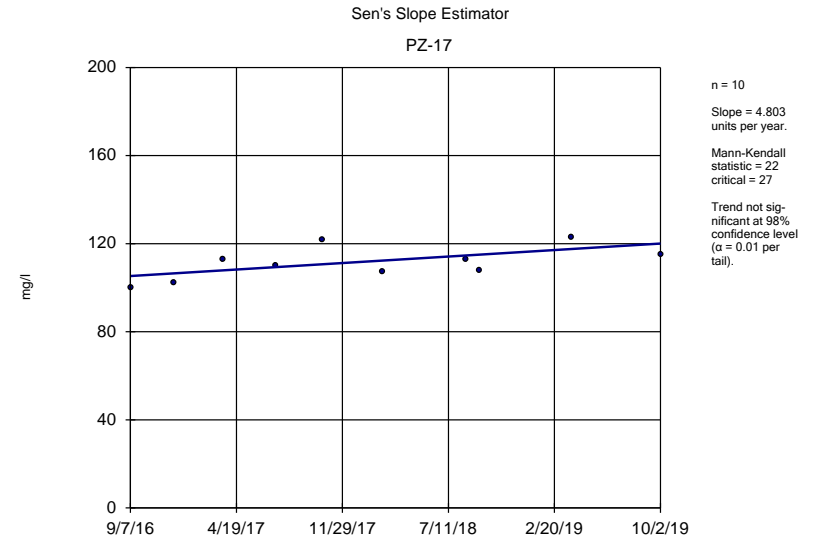
Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

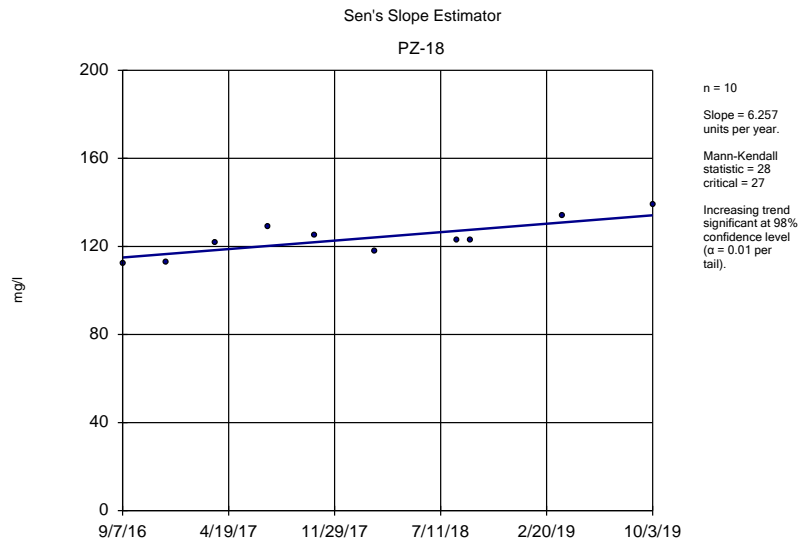
| | PZ-33 |
|------------|-------|
| 12/8/2016 | 0.375 |
| 3/23/2017 | 0.396 |
| 7/12/2017 | 0.343 |
| 10/19/2017 | 0.413 |
| 2/21/2018 | 0.36 |
| 7/12/2018 | 0.41 |
| 9/14/2018 | 0.38 |
| 10/4/2018 | 0.39 |
| 3/28/2019 | 0.39 |
| 10/3/2019 | 0.36 |



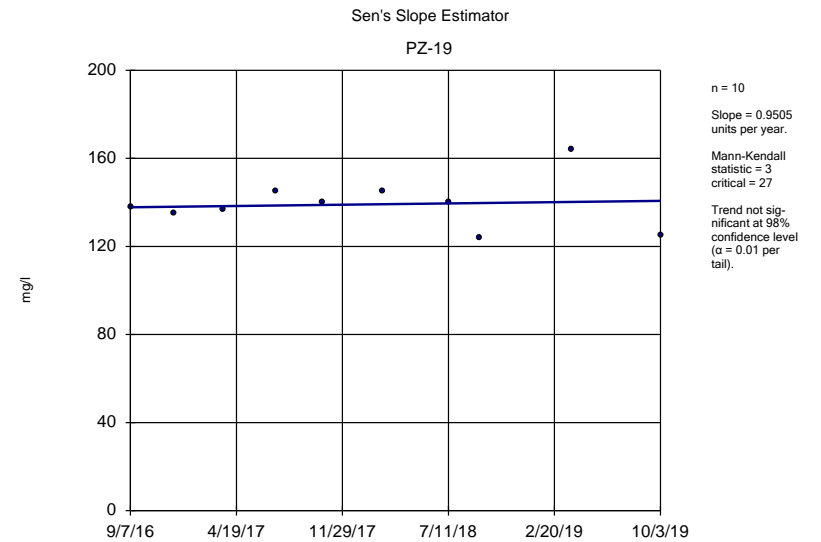
Constituent: Boron Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3



Constituent: Calcium Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3



Constituent: Calcium Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3



Constituent: Calcium Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Boron (mg/l) Analysis Run 12/19/2019 9:52 AM View: Appll Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-7D |
|------------|-------|
| 9/1/2016 | 0.379 |
| 12/7/2016 | 0.394 |
| 3/22/2017 | 0.365 |
| 7/12/2017 | 0.267 |
| 10/19/2017 | 0.326 |
| 2/21/2018 | 0.29 |
| 7/12/2018 | 0.32 |
| 9/13/2018 | 0.31 |
| 3/28/2019 | 0.33 |
| 10/3/2019 | 0.24 |

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:52 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-17 |
|------------|-------|
| 9/7/2016 | 100 |
| 12/8/2016 | 102 |
| 3/22/2017 | 113 |
| 7/12/2017 | 110 |
| 10/18/2017 | 122 |
| 2/21/2018 | 107 |
| 8/16/2018 | 113 |
| 9/14/2018 | 108 |
| 3/28/2019 | 123 |
| 10/2/2019 | 115 |

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:52 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

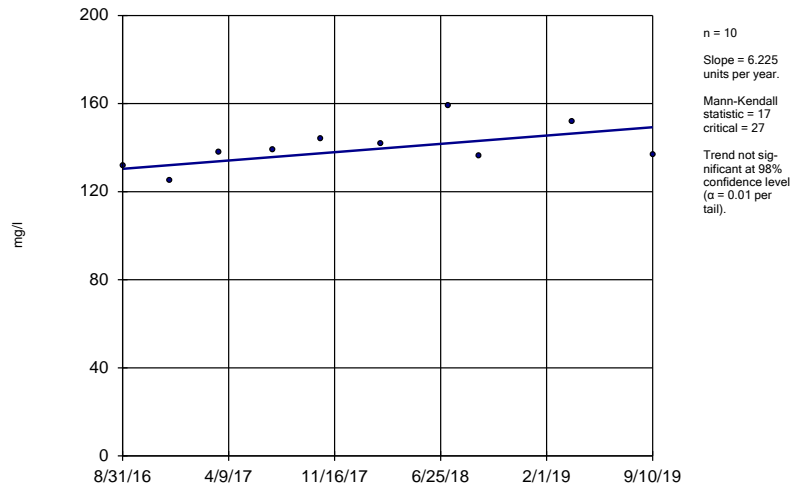
| | PZ-18 |
|------------|-------|
| 9/7/2016 | 112 |
| 12/8/2016 | 113 |
| 3/22/2017 | 122 |
| 7/12/2017 | 129 |
| 10/18/2017 | 125 |
| 2/21/2018 | 118 |
| 8/15/2018 | 123 |
| 9/13/2018 | 123 |
| 3/27/2019 | 134 |
| 10/3/2019 | 139 |

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:52 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

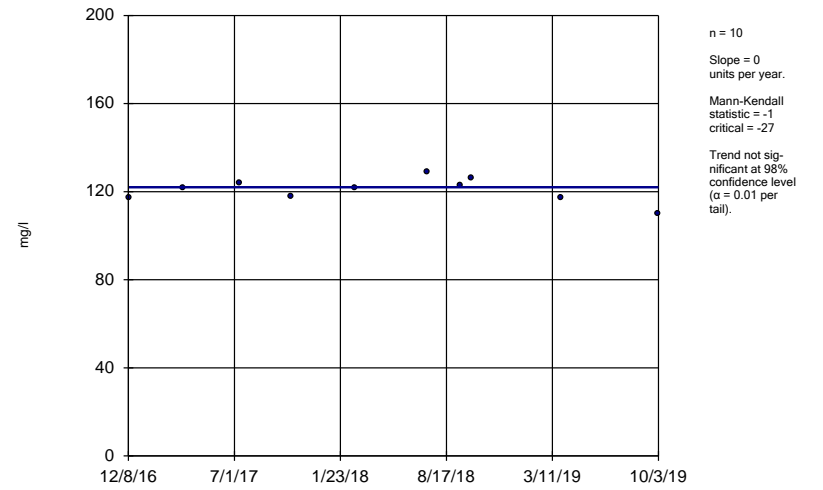
| | PZ-19 |
|------------|-------|
| 9/7/2016 | 138 |
| 12/8/2016 | 135 |
| 3/23/2017 | 137 |
| 7/12/2017 | 145 |
| 10/19/2017 | 140 |
| 2/21/2018 | 145 |
| 7/12/2018 | 140 |
| 9/14/2018 | 124 |
| 3/28/2019 | 164 |
| 10/3/2019 | 125 |

Sen's Slope Estimator
PZ-23



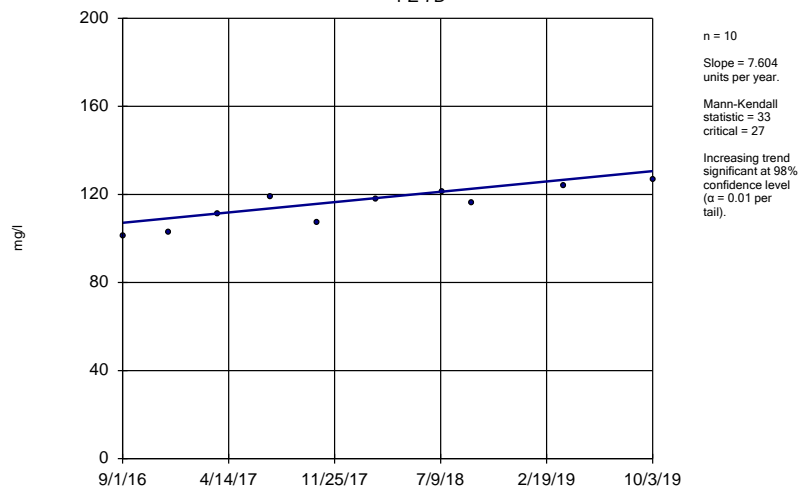
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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-33



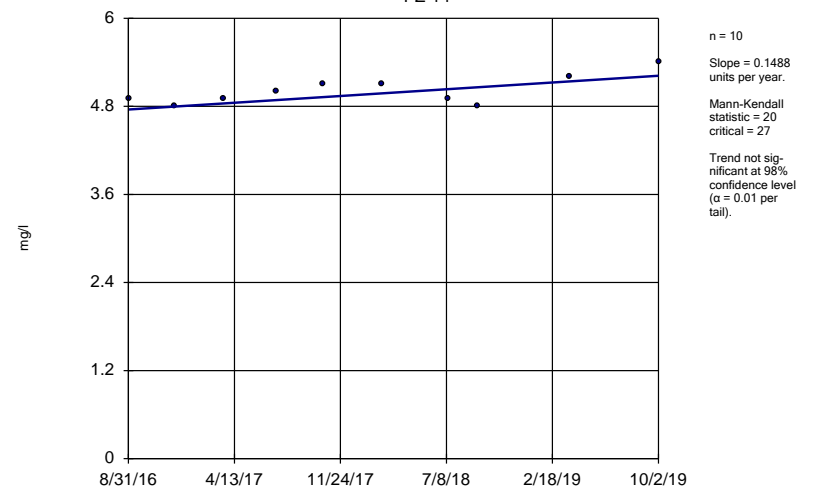
Constituent: Calcium Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-7D



Constituent: Calcium Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-14



Constituent: Chloride Analysis Run 12/19/2019 9:47 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-23 |
|------------|-------|
| 8/31/2016 | 132 |
| 12/7/2016 | 125 |
| 3/21/2017 | 138 |
| 7/11/2017 | 139 |
| 10/18/2017 | 144 |
| 2/20/2018 | 142 |
| 7/11/2018 | 159 |
| 9/13/2018 | 136 |
| 3/27/2019 | 152 |
| 9/10/2019 | 137 |

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-33 |
|------------|-------|
| 12/8/2016 | 117 |
| 3/23/2017 | 122 |
| 7/12/2017 | 124 |
| 10/19/2017 | 118 |
| 2/21/2018 | 122 |
| 7/12/2018 | 129 |
| 9/14/2018 | 123 |
| 10/4/2018 | 126 |
| 3/28/2019 | 117 |
| 10/3/2019 | 110 |

Sen's Slope Estimator

Constituent: Calcium (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-7D |
|------------|-------|
| 9/1/2016 | 101 |
| 12/7/2016 | 103 |
| 3/22/2017 | 111 |
| 7/12/2017 | 119 |
| 10/19/2017 | 107 |
| 2/21/2018 | 118 |
| 7/12/2018 | 121 |
| 9/13/2018 | 116 |
| 3/28/2019 | 124 |
| 10/3/2019 | 127 |

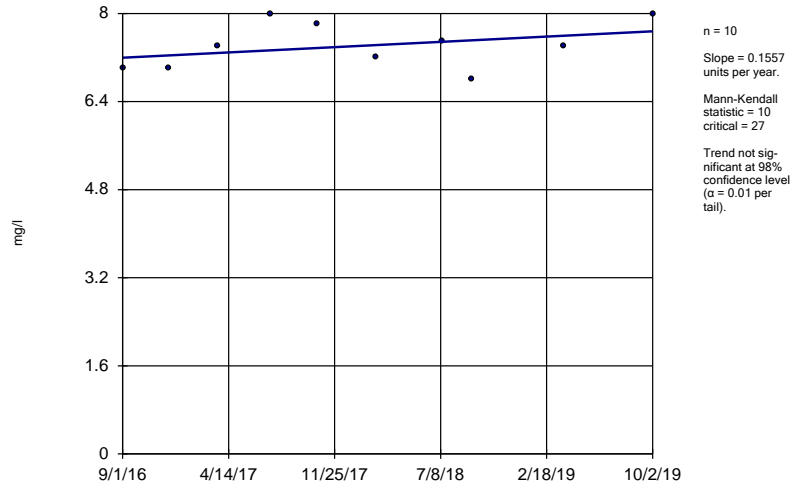
Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-14 |
|------------|-------|
| 8/31/2016 | 4.9 |
| 12/7/2016 | 4.8 |
| 3/21/2017 | 4.9 |
| 7/11/2017 | 5 |
| 10/18/2017 | 5.1 |
| 2/20/2018 | 5.1 |
| 7/11/2018 | 4.9 |
| 9/12/2018 | 4.8 |
| 3/27/2019 | 5.2 |
| 10/2/2019 | 5.4 |

Sen's Slope Estimator

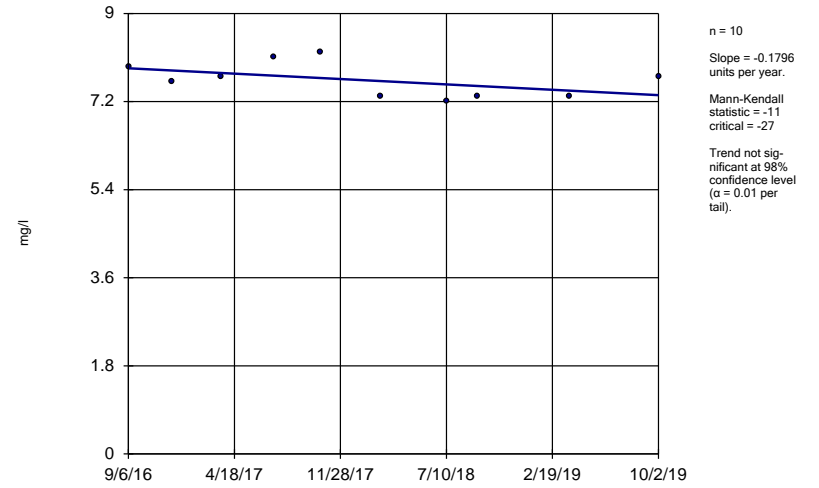
PZ-15



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Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

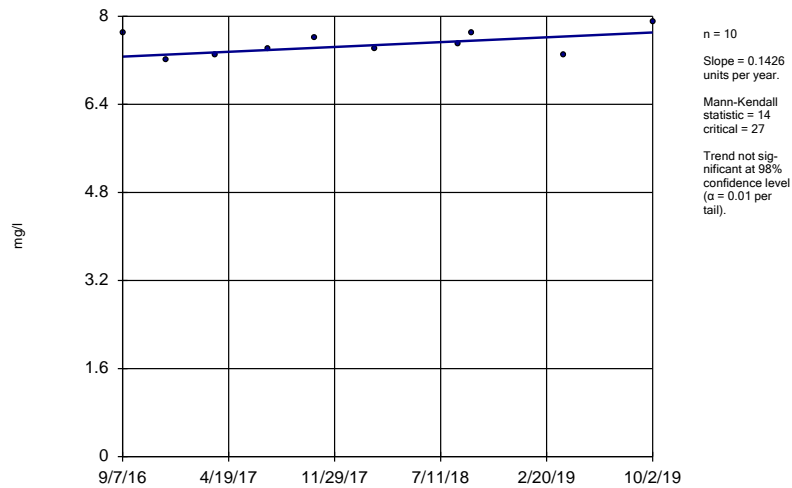
PZ-16



Constituent: Chloride Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

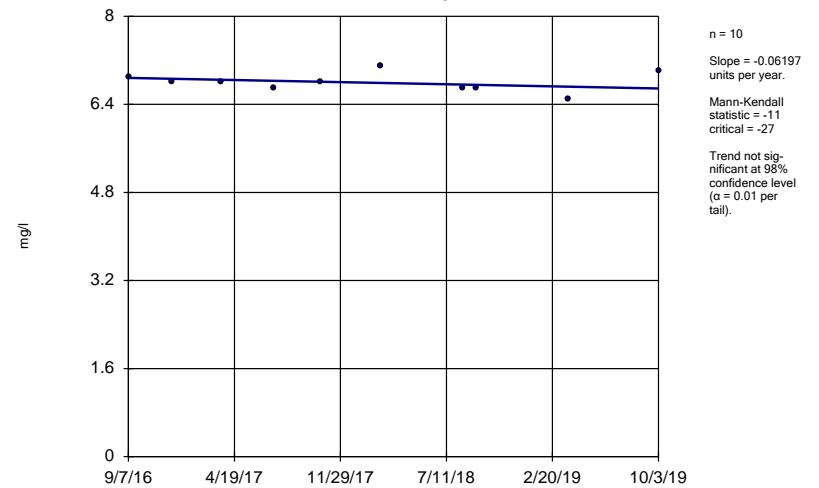
PZ-17



Constituent: Chloride Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

PZ-18



Constituent: Chloride Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-15 |
|------------|-------|
| 9/1/2016 | 7 |
| 12/7/2016 | 7 |
| 3/22/2017 | 7.4 |
| 7/12/2017 | 8 |
| 10/18/2017 | 7.8 |
| 2/21/2018 | 7.2 |
| 7/12/2018 | 7.5 |
| 9/13/2018 | 6.8 |
| 3/28/2019 | 7.4 |
| 10/2/2019 | 8 |

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-16 |
|------------|-------|
| 9/6/2016 | 7.9 |
| 12/7/2016 | 7.6 |
| 3/22/2017 | 7.7 |
| 7/11/2017 | 8.1 |
| 10/18/2017 | 8.2 |
| 2/21/2018 | 7.3 |
| 7/12/2018 | 7.2 |
| 9/13/2018 | 7.3 |
| 3/27/2019 | 7.3 |
| 10/2/2019 | 7.7 |

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

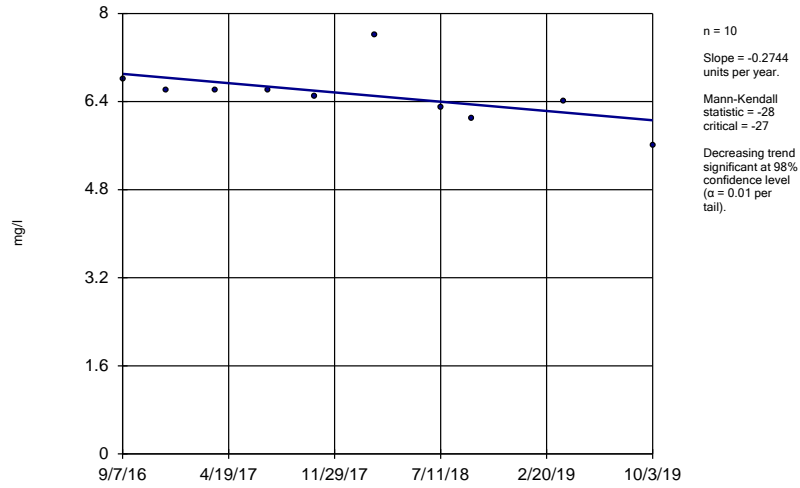
| | PZ-17 |
|------------|-------|
| 9/7/2016 | 7.7 |
| 12/8/2016 | 7.2 |
| 3/22/2017 | 7.3 |
| 7/12/2017 | 7.4 |
| 10/18/2017 | 7.6 |
| 2/21/2018 | 7.4 |
| 8/16/2018 | 7.5 |
| 9/14/2018 | 7.7 |
| 3/28/2019 | 7.3 |
| 10/2/2019 | 7.9 |

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

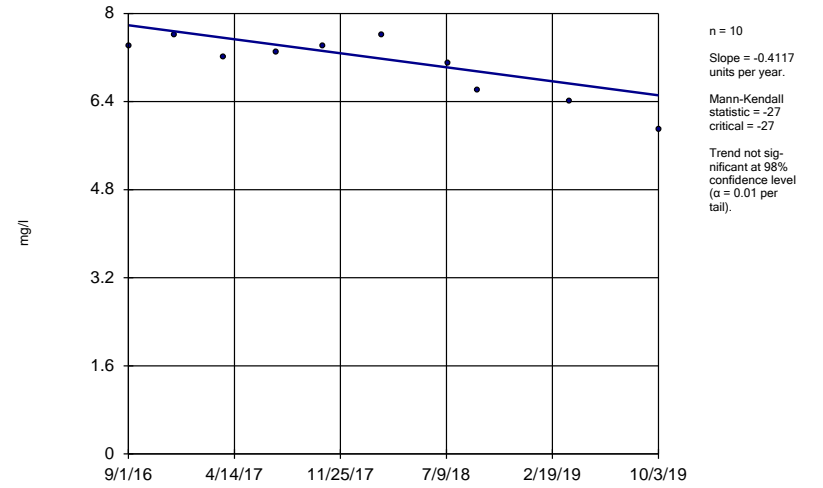
| | PZ-18 |
|------------|-------|
| 9/7/2016 | 6.9 |
| 12/8/2016 | 6.8 |
| 3/22/2017 | 6.8 |
| 7/12/2017 | 6.7 |
| 10/18/2017 | 6.8 |
| 2/21/2018 | 7.1 |
| 8/15/2018 | 6.7 |
| 9/13/2018 | 6.7 |
| 3/27/2019 | 6.5 |
| 10/3/2019 | 7 |

Sen's Slope Estimator
PZ-19



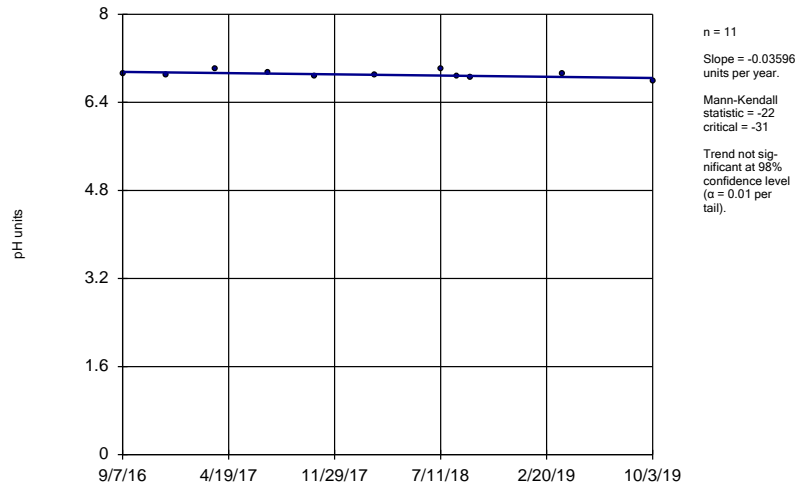
Constituent: Chloride Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-7D



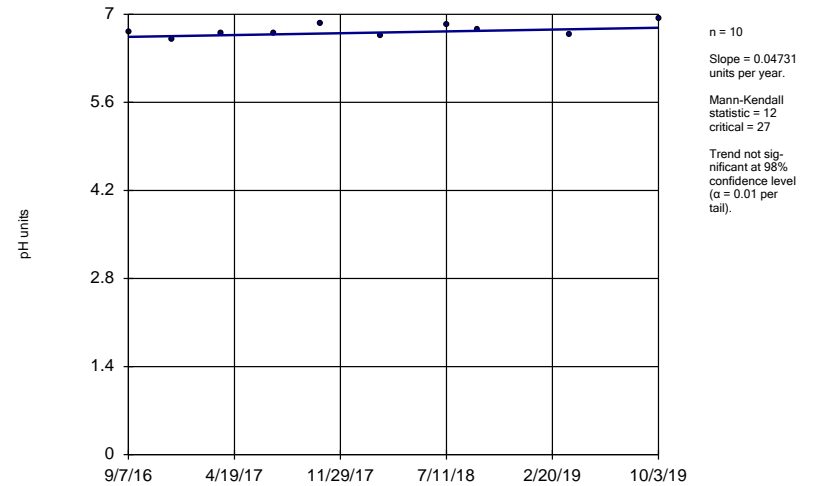
Constituent: Chloride Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-18



Constituent: pH Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-19



Constituent: pH Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-19 |
|------------|-------|
| 9/7/2016 | 6.8 |
| 12/8/2016 | 6.6 |
| 3/23/2017 | 6.6 |
| 7/12/2017 | 6.6 |
| 10/19/2017 | 6.5 |
| 2/21/2018 | 7.6 |
| 7/12/2018 | 6.3 |
| 9/14/2018 | 6.1 |
| 3/28/2019 | 6.4 |
| 10/3/2019 | 5.6 |

Sen's Slope Estimator

Constituent: Chloride (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-7D |
|------------|-------|
| 9/1/2016 | 7.4 |
| 12/7/2016 | 7.6 |
| 3/22/2017 | 7.2 |
| 7/12/2017 | 7.3 |
| 10/19/2017 | 7.4 |
| 2/21/2018 | 7.6 |
| 7/12/2018 | 7.1 |
| 9/13/2018 | 6.6 |
| 3/28/2019 | 6.4 |
| 10/3/2019 | 5.9 |

Sen's Slope Estimator

Constituent: pH (pH units) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

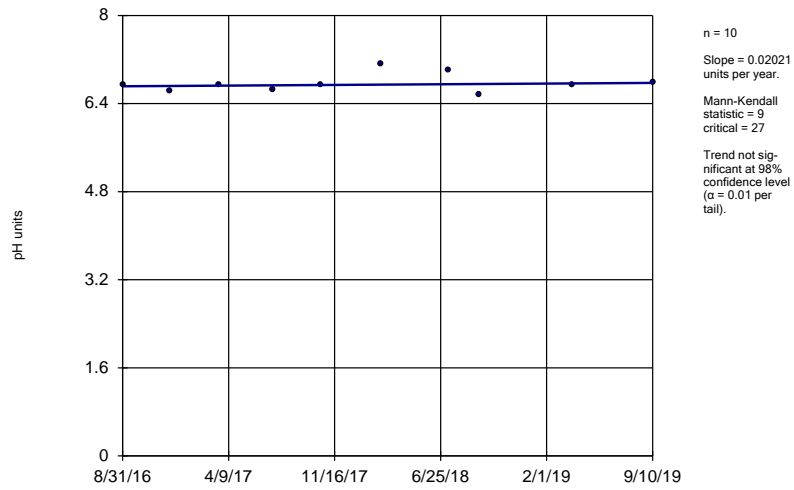
| | PZ-18 |
|------------|-------|
| 9/7/2016 | 6.92 |
| 12/8/2016 | 6.9 |
| 3/22/2017 | 7 |
| 7/12/2017 | 6.95 |
| 10/18/2017 | 6.88 |
| 2/21/2018 | 6.89 |
| 7/12/2018 | 7.01 |
| 8/15/2018 | 6.87 |
| 9/13/2018 | 6.86 |
| 3/27/2019 | 6.92 |
| 10/3/2019 | 6.78 |

Sen's Slope Estimator

Constituent: pH (pH units) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

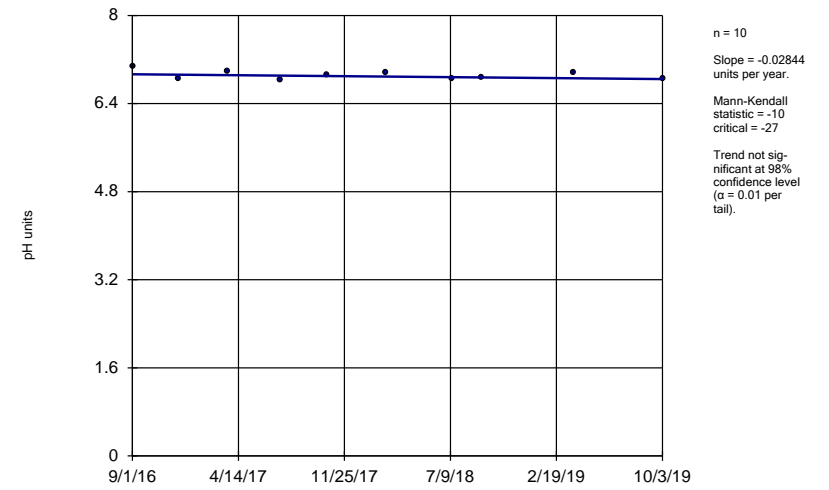
| | PZ-19 |
|------------|-------|
| 9/7/2016 | 6.71 |
| 12/8/2016 | 6.61 |
| 3/23/2017 | 6.69 |
| 7/12/2017 | 6.69 |
| 10/19/2017 | 6.85 |
| 2/21/2018 | 6.66 |
| 7/12/2018 | 6.84 |
| 9/14/2018 | 6.76 |
| 3/28/2019 | 6.67 |
| 10/3/2019 | 6.93 |

Sen's Slope Estimator
PZ-23



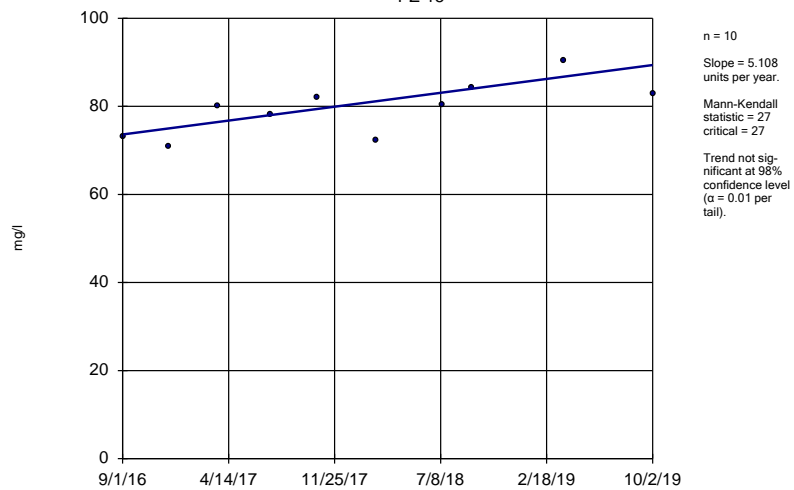
Constituent: pH Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-7D



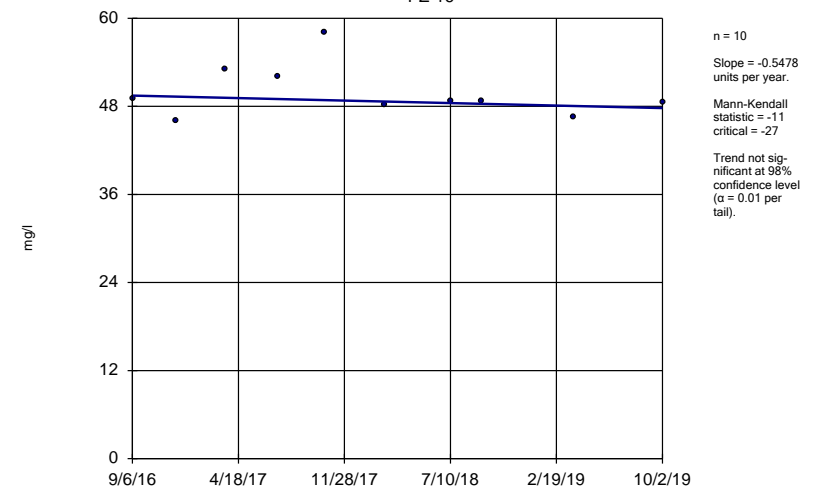
Constituent: pH Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-15



Constituent: Sulfate Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-16



Constituent: Sulfate Analysis Run 12/19/2019 9:48 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: pH (pH units) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-23 |
|------------|-------|
| 8/31/2016 | 6.75 |
| 12/7/2016 | 6.64 |
| 3/21/2017 | 6.73 |
| 7/11/2017 | 6.66 |
| 10/18/2017 | 6.73 |
| 2/20/2018 | 7.11 |
| 7/11/2018 | 7 |
| 9/13/2018 | 6.56 |
| 3/27/2019 | 6.75 |
| 9/10/2019 | 6.78 |

Sen's Slope Estimator

Constituent: pH (pH units) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-7D |
|------------|-------|
| 9/1/2016 | 7.07 |
| 12/7/2016 | 6.85 |
| 3/22/2017 | 6.99 |
| 7/12/2017 | 6.83 |
| 10/19/2017 | 6.91 |
| 2/21/2018 | 6.97 |
| 7/12/2018 | 6.85 |
| 9/13/2018 | 6.88 |
| 3/28/2019 | 6.96 |
| 10/3/2019 | 6.85 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

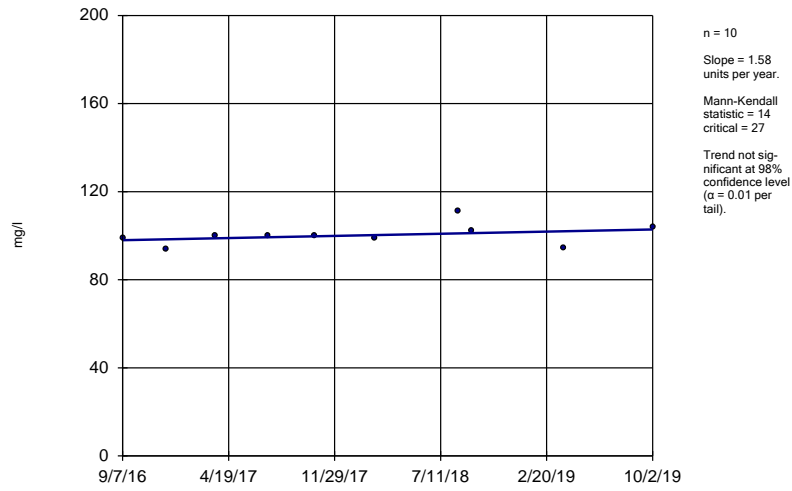
| | PZ-15 |
|------------|-------|
| 9/1/2016 | 73 |
| 12/7/2016 | 71 |
| 3/22/2017 | 80 |
| 7/12/2017 | 78 |
| 10/18/2017 | 82 |
| 2/21/2018 | 72.2 |
| 7/12/2018 | 80.5 |
| 9/13/2018 | 84.4 |
| 3/28/2019 | 90.3 |
| 10/2/2019 | 83 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

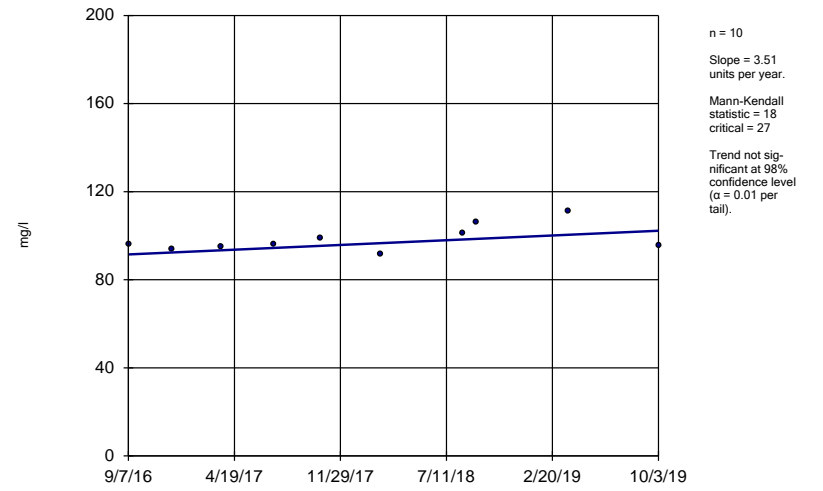
| | PZ-16 |
|------------|-------|
| 9/6/2016 | 49 |
| 12/7/2016 | 46 |
| 3/22/2017 | 53 |
| 7/11/2017 | 52 |
| 10/18/2017 | 58 |
| 2/21/2018 | 48.2 |
| 7/12/2018 | 48.8 |
| 9/13/2018 | 48.7 |
| 3/27/2019 | 46.5 |
| 10/2/2019 | 48.5 |

Sen's Slope Estimator
PZ-17



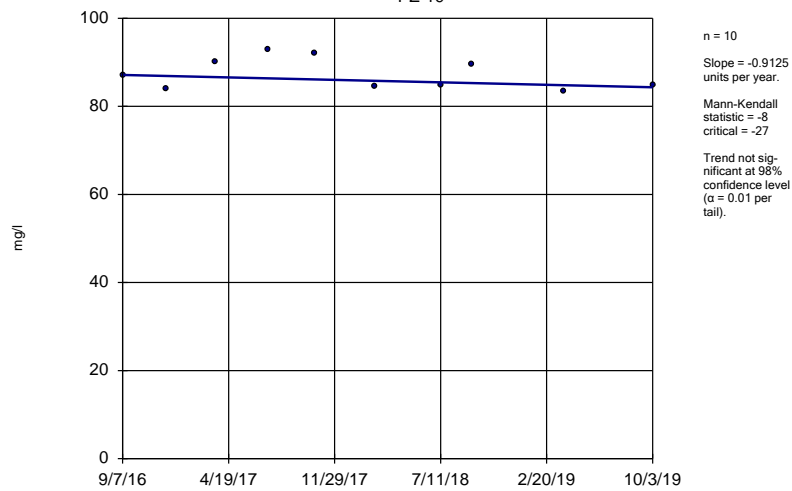
Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-18



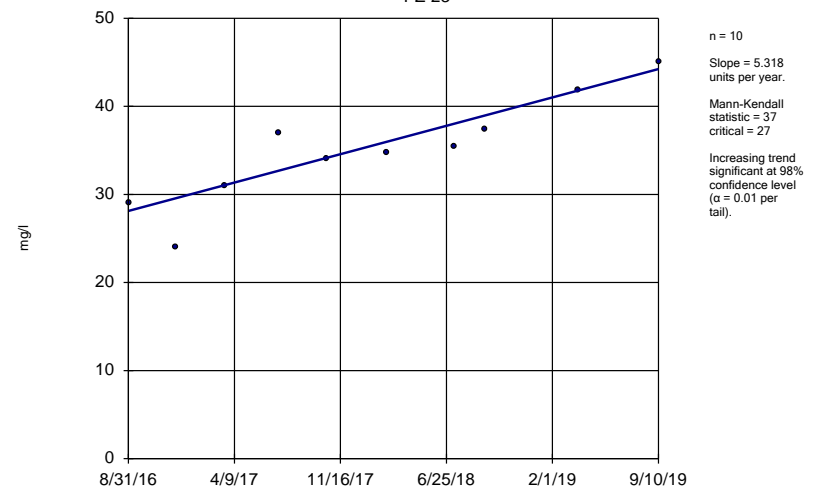
Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-19



Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-23



Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-17 |
|------------|-------|
| 9/7/2016 | 99 |
| 12/8/2016 | 94 |
| 3/22/2017 | 100 |
| 7/12/2017 | 100 |
| 10/18/2017 | 100 |
| 2/21/2018 | 98.8 |
| 8/16/2018 | 111 |
| 9/14/2018 | 102 |
| 3/28/2019 | 94.7 |
| 10/2/2019 | 104 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-18 |
|------------|-------|
| 9/7/2016 | 96 |
| 12/8/2016 | 94 |
| 3/22/2017 | 95 |
| 7/12/2017 | 96 |
| 10/18/2017 | 99 |
| 2/21/2018 | 91.8 |
| 8/15/2018 | 101 |
| 9/13/2018 | 106 |
| 3/27/2019 | 111 |
| 10/3/2019 | 95.8 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

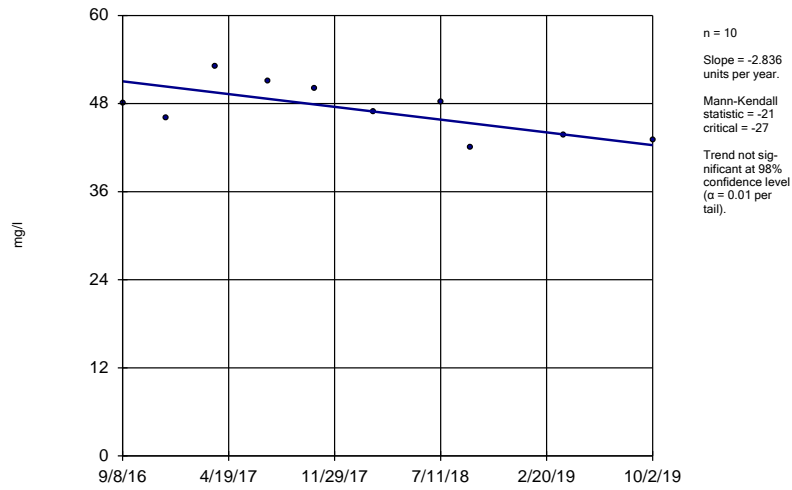
| | PZ-19 |
|------------|-------|
| 9/7/2016 | 87 |
| 12/8/2016 | 84 |
| 3/23/2017 | 90 |
| 7/12/2017 | 93 |
| 10/19/2017 | 92 |
| 2/21/2018 | 84.5 |
| 7/12/2018 | 84.9 |
| 9/14/2018 | 89.5 |
| 3/28/2019 | 83.5 |
| 10/3/2019 | 84.9 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

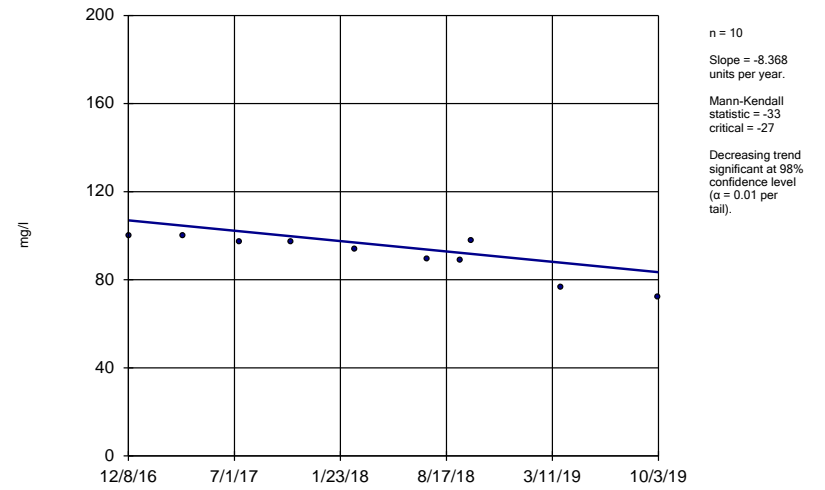
| | PZ-23 |
|------------|-------|
| 8/31/2016 | 29 |
| 12/7/2016 | 24 |
| 3/21/2017 | 31 |
| 7/11/2017 | 37 |
| 10/18/2017 | 34 |
| 2/20/2018 | 34.7 |
| 7/11/2018 | 35.4 |
| 9/13/2018 | 37.4 |
| 3/27/2019 | 41.9 |
| 9/10/2019 | 45.1 |

Sen's Slope Estimator
PZ-25



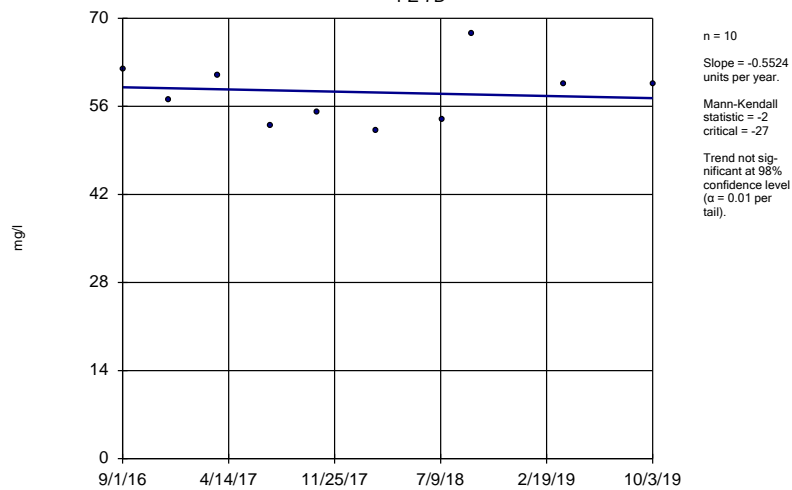
Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-33



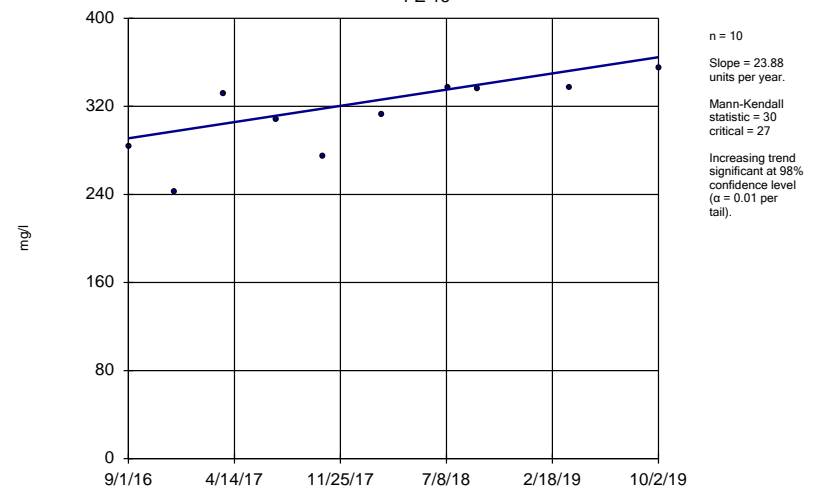
Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-7D



Constituent: Sulfate Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-15



Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:49 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-25 |
|------------|-------|
| 9/8/2016 | 48 |
| 12/8/2016 | 46 |
| 3/22/2017 | 53 |
| 7/11/2017 | 51 |
| 10/18/2017 | 50 |
| 2/21/2018 | 46.8 |
| 7/12/2018 | 48.3 |
| 9/13/2018 | 42 |
| 3/27/2019 | 43.7 |
| 10/2/2019 | 43 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-33 |
|------------|-------|
| 12/8/2016 | 100 |
| 3/23/2017 | 100 |
| 7/12/2017 | 97 |
| 10/19/2017 | 97 |
| 2/21/2018 | 93.6 |
| 7/12/2018 | 89.4 |
| 9/14/2018 | 88.9 |
| 10/4/2018 | 97.8 |
| 3/28/2019 | 76.7 |
| 10/3/2019 | 72.1 |

Sen's Slope Estimator

Constituent: Sulfate (mg/l) Analysis Run 12/19/2019 9:53 AM View: AppIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

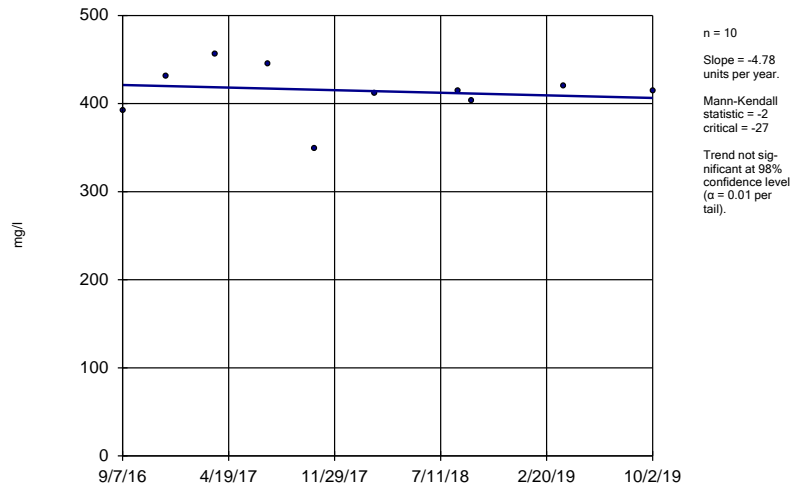
| | PZ-7D |
|------------|-------|
| 9/1/2016 | 62 |
| 12/7/2016 | 57 |
| 3/22/2017 | 61 |
| 7/12/2017 | 53 |
| 10/19/2017 | 55 |
| 2/21/2018 | 52.1 |
| 7/12/2018 | 53.9 |
| 9/13/2018 | 67.5 |
| 3/28/2019 | 59.6 |
| 10/3/2019 | 59.6 |

Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

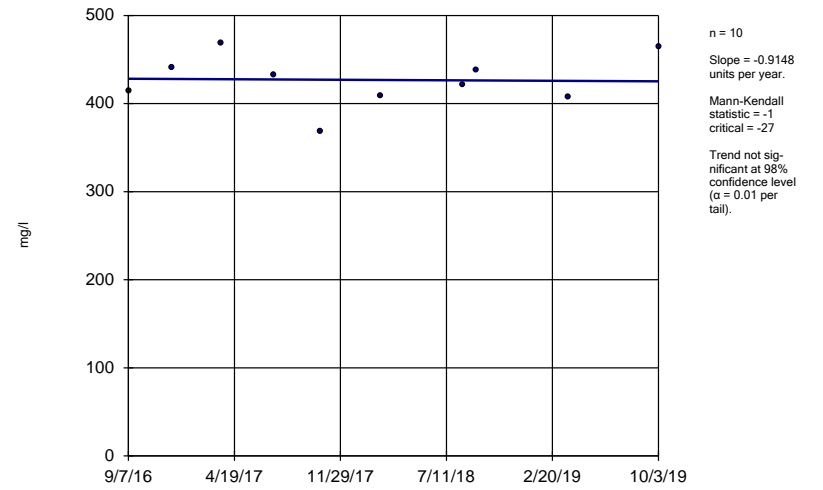
| | PZ-15 |
|------------|-------|
| 9/1/2016 | 284 |
| 12/7/2016 | 242 |
| 3/22/2017 | 332 |
| 7/12/2017 | 308 |
| 10/18/2017 | 275 |
| 2/21/2018 | 312 |
| 7/12/2018 | 337 |
| 9/13/2018 | 336 |
| 3/28/2019 | 337 |
| 10/2/2019 | 355 |

Sen's Slope Estimator
PZ-17



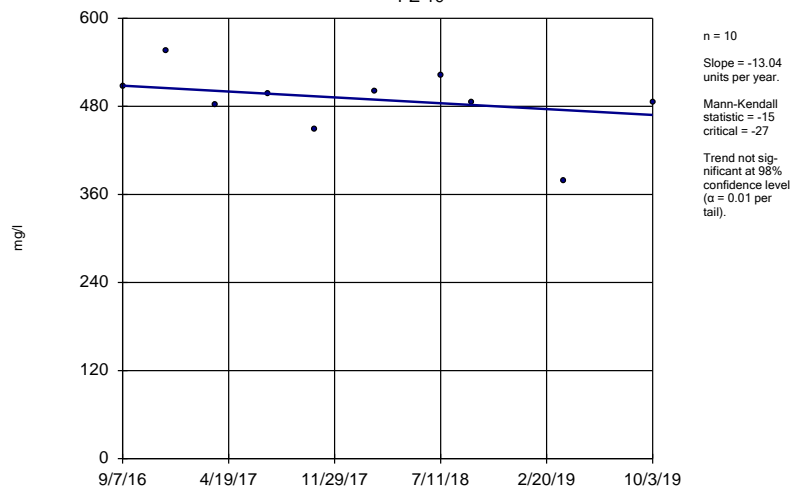
Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:49 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-18



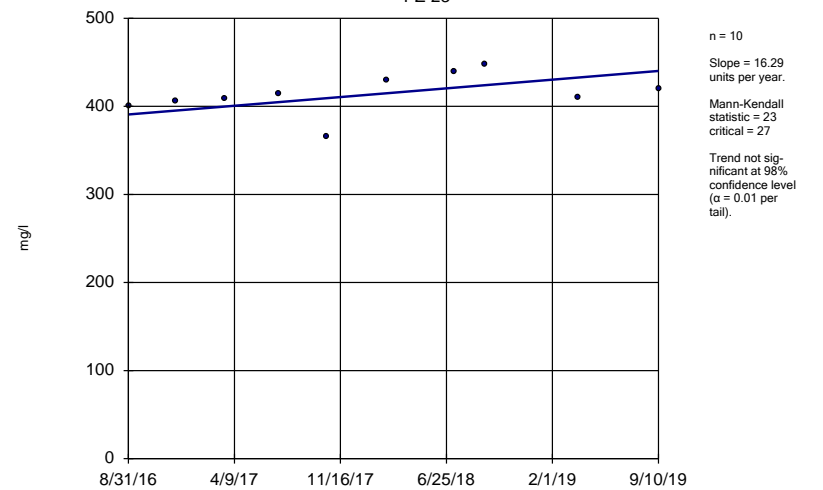
Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:50 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-19



Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:50 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-23



Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:50 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-17 |
|------------|-------|
| 9/7/2016 | 392 |
| 12/8/2016 | 431 |
| 3/22/2017 | 456 |
| 7/12/2017 | 445 |
| 10/18/2017 | 349 |
| 2/21/2018 | 411 |
| 8/16/2018 | 415 |
| 9/14/2018 | 403 |
| 3/28/2019 | 420 |
| 10/2/2019 | 415 |

Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-18 |
|------------|-------|
| 9/7/2016 | 415 |
| 12/8/2016 | 441 |
| 3/22/2017 | 469 |
| 7/12/2017 | 432 |
| 10/18/2017 | 368 |
| 2/21/2018 | 409 |
| 8/15/2018 | 422 |
| 9/13/2018 | 438 |
| 3/27/2019 | 408 |
| 10/3/2019 | 464 |

Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes

Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-19 |
|------------|---------|
| 9/7/2016 | 508 |
| 12/8/2016 | 556 |
| 3/23/2017 | 482 |
| 7/12/2017 | 497 |
| 10/19/2017 | 448 |
| 2/21/2018 | 500 |
| 7/12/2018 | 523 |
| 9/14/2018 | 486 |
| 3/28/2019 | 378 (X) |
| 10/3/2019 | 485 |

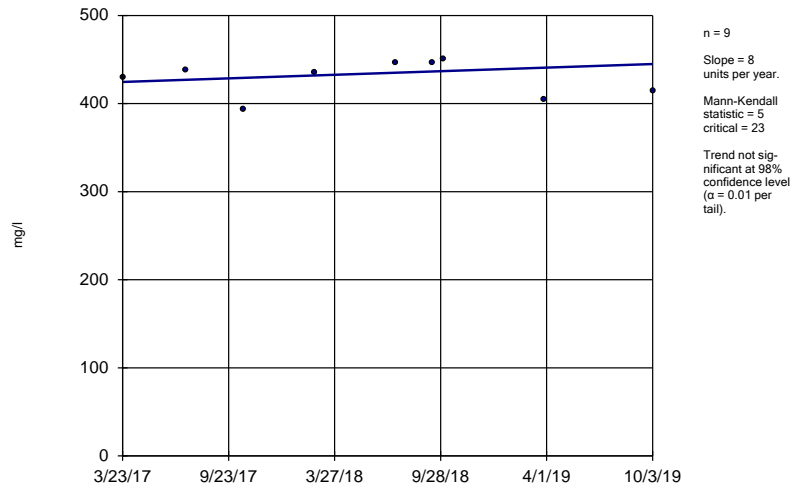
Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes

Plant Mitchell Client: Southern Company Data: Mitchel V3

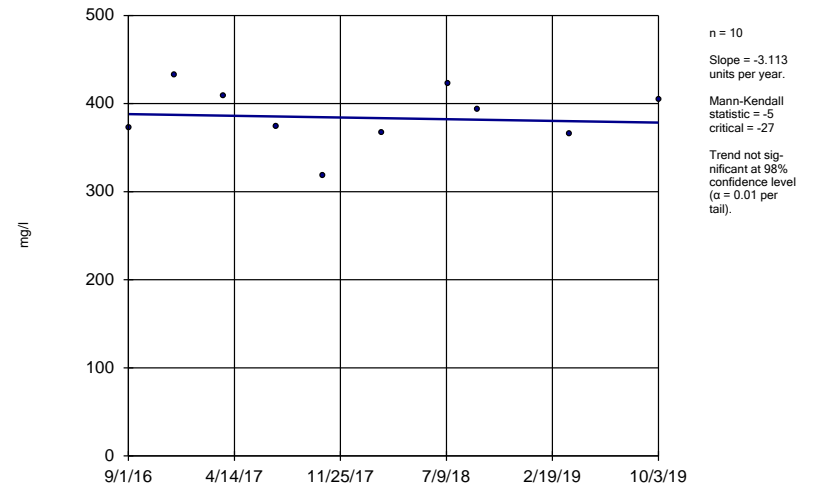
| | PZ-23 |
|------------|-------|
| 8/31/2016 | 400 |
| 12/7/2016 | 406 |
| 3/21/2017 | 409 |
| 7/11/2017 | 414 |
| 10/18/2017 | 366 |
| 2/20/2018 | 429 |
| 7/11/2018 | 440 |
| 9/13/2018 | 448 |
| 3/27/2019 | 410 |
| 9/10/2019 | 420 |

Sen's Slope Estimator
PZ-33



Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:50 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator
PZ-7D



Constituent: Total Dissolved Solids Analysis Run 12/19/2019 9:50 AM View: ApplII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes

Plant Mitchell Client: Southern Company Data: Mitchel V3

| | |
|------------|---------|
| | PZ-33 |
| 12/8/2016 | 503 (O) |
| 3/23/2017 | 430 |
| 7/12/2017 | 438 |
| 10/19/2017 | 393 |
| 2/21/2018 | 435 |
| 7/12/2018 | 447 |
| 9/14/2018 | 447 |
| 10/4/2018 | 450 |
| 3/28/2019 | 405 |
| 10/3/2019 | 414 |

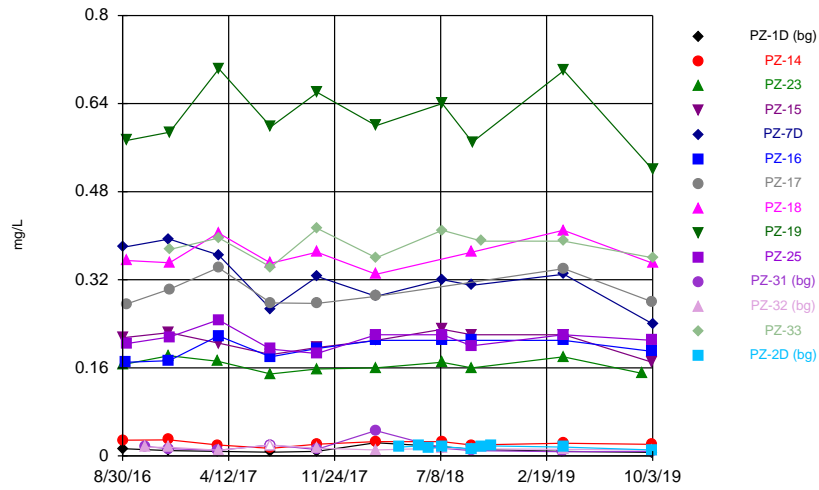
Sen's Slope Estimator

Constituent: Total Dissolved Solids (mg/l) Analysis Run 12/19/2019 9:53 AM View: ApplIII Sen Slopes
Plant Mitchell Client: Southern Company Data: Mitchel V3

| | PZ-7D |
|------------|-------|
| 9/1/2016 | 373 |
| 12/7/2016 | 433 |
| 3/22/2017 | 409 |
| 7/12/2017 | 374 |
| 10/19/2017 | 318 |
| 2/21/2018 | 367 |
| 7/12/2018 | 423 |
| 9/13/2018 | 394 |
| 3/28/2019 | 365 |
| 10/3/2019 | 405 |

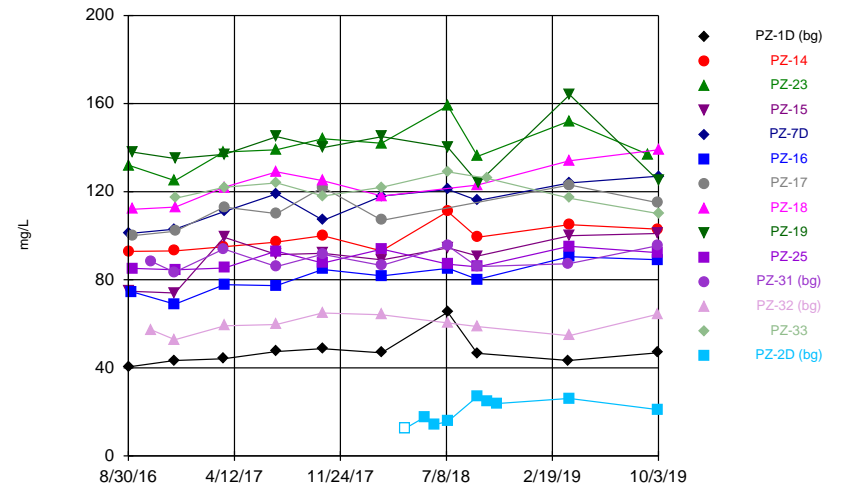
TIME SERIES

Time Series



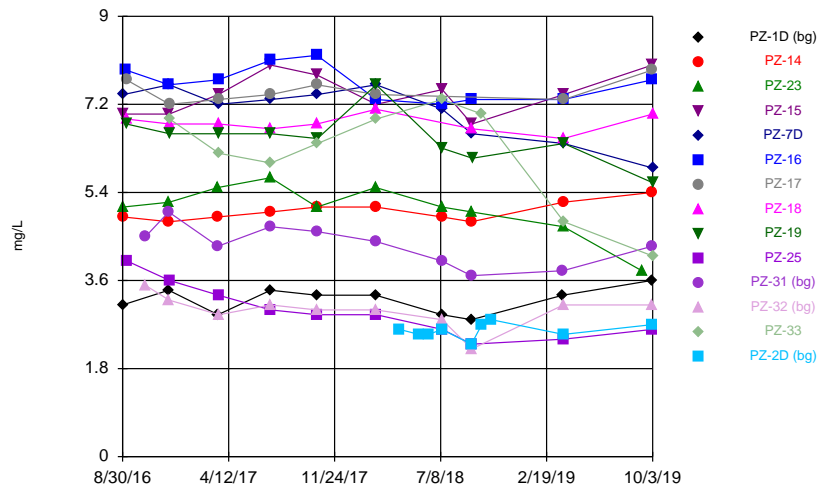
Constituent: Boron Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



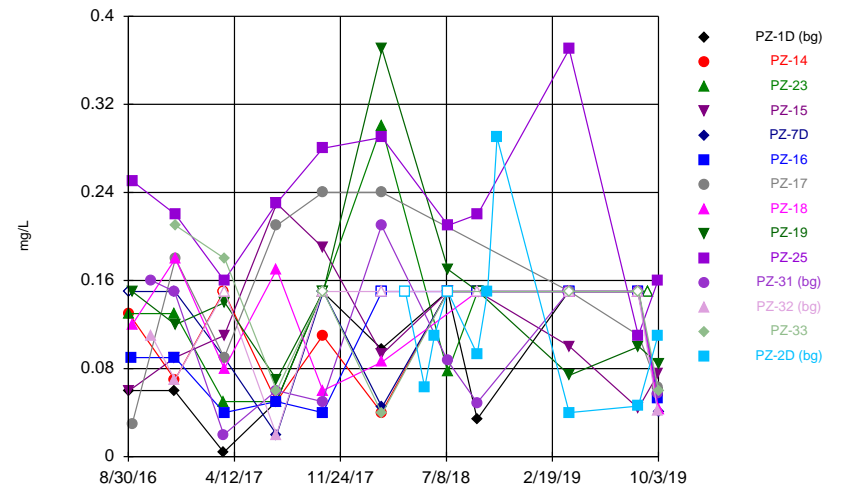
Constituent: Calcium Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Chloride Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Fluoride Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Boron (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|------------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 0.0132 (X) | | | | | | | | |
| 8/31/2016 | | 0.0285 (X) | 0.166 | | | | | | |
| 9/1/2016 | | | | 0.215 | 0.379 | | | | |
| 9/6/2016 | | | | | | 0.17 | | | |
| 9/7/2016 | | | | | | | 0.276 | 0.355 | 0.573 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 0.0096 (X) | | | | | | | | |
| 12/7/2016 | | 0.0292 (X) | 0.182 | 0.224 | 0.394 | 0.173 | | | |
| 12/8/2016 | | | | | | | 0.303 | 0.351 | 0.588 |
| 3/21/2017 | 0.0082 (X) | 0.0198 (X) | 0.172 | | | | | | |
| 3/22/2017 | | | | 0.205 | 0.365 | 0.218 | 0.342 | 0.405 | |
| 3/23/2017 | | | | | | | | | 0.703 |
| 7/11/2017 | 0.0067 (X) | 0.0137 (X) | 0.149 | | | 0.18 | | | |
| 7/12/2017 | | | | 0.184 | 0.267 | | 0.278 | 0.35 | 0.598 |
| 10/17/2017 | 0.0083 (X) | | | | | | | | |
| 10/18/2017 | | 0.0212 (X) | 0.158 | 0.197 | | 0.195 | 0.277 | 0.37 | |
| 10/19/2017 | | | | | 0.326 | | | | 0.66 |
| 2/20/2018 | 0.024 (X) | 0.026 (X) | 0.16 | | | | | | |
| 2/21/2018 | | | | 0.21 | 0.29 | 0.21 | 0.29 | 0.33 | 0.6 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 0.017 (X) | 0.026 (X) | 0.17 | | | | | | |
| 7/12/2018 | | | | 0.23 | 0.32 | 0.21 | | | 0.64 |
| 9/12/2018 | 0.012 (X) | 0.02 (X) | | | | | | | |
| 9/13/2018 | | | 0.16 | 0.22 | 0.31 | 0.21 | | 0.37 | |
| 9/14/2018 | | | | | | | | | 0.57 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 0.0082 (X) | | | | | | | | |
| 3/27/2019 | | 0.023 (X) | 0.18 | | | 0.21 | | 0.41 | |
| 3/28/2019 | | | | 0.22 | 0.33 | | 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 |

Time Series

Constituent: Boron (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 0.204 | | | | |
| 10/18/2016 | | 0.0174 (X) | 0.0156 (X) | | |
| 12/6/2016 | | 0.0133 (X) | | | |
| 12/7/2016 | | | 0.0157 (X) | | |
| 12/8/2016 | 0.216 | | | 0.375 | |
| 3/21/2017 | | 0.0103 (X) | | | |
| 3/22/2017 | 0.247 | | | | |
| 3/23/2017 | | | 0.0103 (X) | 0.396 | |
| 7/11/2017 | 0.194 | <0.04 | <0.04 | | |
| 7/12/2017 | | | | 0.343 | |
| 10/17/2017 | | 0.0116 (X) | 0.0142 (X) | | |
| 10/18/2017 | 0.186 | | | | |
| 10/19/2017 | | | | 0.413 | |
| 2/20/2018 | | 0.046 (X) | 0.011 (X) | | |
| 2/21/2018 | 0.22 | | | 0.36 | |
| 4/12/2018 | | | | | 0.016 (X) |
| 5/23/2018 | | | | | 0.018 (X) |
| 6/13/2018 | | | | | 0.014 (X) |
| 7/11/2018 | | 0.014 (X) | 0.014 (X) | | 0.017 (X) |
| 7/12/2018 | 0.22 | | | 0.41 | |
| 9/12/2018 | | 0.0098 (X) | | | 0.013 (X) |
| 9/13/2018 | 0.2 | | 0.013 (X) | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 0.39 | 0.016 (X) |
| 10/24/2018 | | | | | 0.018 (X) |
| 3/26/2019 | | 0.0076 (X) | | | |
| 3/27/2019 | 0.22 | | 0.012 (X) | | 0.016 (X) |
| 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 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 40.4 | | | | | | | | |
| 8/31/2016 | | 92.9 | 132 | | | | | | |
| 9/1/2016 | | | | 74.8 | 101 | | | | |
| 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 | 74 | 103 | 68.9 | | | |
| 12/8/2016 | | | | | | | 102 | 113 | 135 |
| 3/21/2017 | 44.1 | 95 | 138 | | | | | | |
| 3/22/2017 | | | | 99.3 | 111 | 77.8 | 113 | 122 | |
| 3/23/2017 | | | | | | | | | 137 |
| 7/11/2017 | 47.4 | 97.1 | 139 | | | 77.3 | | | |
| 7/12/2017 | | | | 91.4 | 119 | | 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 | | | | 89 | 118 | 81.8 | 107 | 118 | 145 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 65.3 | 111 | 159 | | | | | | |
| 7/12/2018 | | | | 94.5 | 121 | 85.2 | | | 140 |
| 9/12/2018 | 46.6 | 99.3 | | | | | | | |
| 9/13/2018 | | | 136 | 90.8 | 116 | 80.2 | | 123 | |
| 9/14/2018 | | | | | | | | | 124 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 43.3 | | | | | | | | |
| 3/27/2019 | | 105 | 152 | | | 90.5 | | 134 | |
| 3/28/2019 | | | | 100 | 124 | | 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 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 85.2 | | | | |
| 10/18/2016 | | 88.3 | 57.2 | | |
| 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 | 86 | 59.7 | | |
| 7/12/2017 | | | | 124 | |
| 10/17/2017 | | 91.6 | 64.9 | | |
| 10/18/2017 | 87.6 | | | | |
| 10/19/2017 | | | | 118 | |
| 2/20/2018 | | 86.5 | 64.1 | | |
| 2/21/2018 | 93.9 | | | 122 | |
| 4/12/2018 | | | | | <25 |
| 5/23/2018 | | | | | 17.6 (X) |
| 6/13/2018 | | | | | 14.3 |
| 7/11/2018 | | 95.4 | 60.4 | | 15.6 |
| 7/12/2018 | 87.1 | | | 129 | |
| 9/12/2018 | | 86 | | | 26.9 |
| 9/13/2018 | 85.8 | | 58.7 | | |
| 9/14/2018 | | | | | |
| 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 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-------|-------|-------|-------|---------|---------|---------|---------|
| 8/30/2016 | 3.1 (B) | | | | | | | | |
| 8/31/2016 | | 4.9 | 5.1 | | | | | | |
| 9/1/2016 | | | | 7 | 7.4 | | | | |
| 9/6/2016 | | | | | | 7.9 (B) | | | |
| 9/7/2016 | | | | | | | 7.7 (B) | 6.9 (B) | 6.8 (B) |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 3.4 | | | | | | | | |
| 12/7/2016 | | 4.8 | 5.2 | 7 | 7.6 | 7.6 | | | |
| 12/8/2016 | | | | | | | 7.2 | 6.8 | 6.6 |
| 3/21/2017 | 2.9 | 4.9 | 5.5 | | | | | | |
| 3/22/2017 | | | | 7.4 | 7.2 | 7.7 | 7.3 | 6.8 | |
| 3/23/2017 | | | | | | | | | 6.6 |
| 7/11/2017 | 3.4 | 5 | 5.7 | | | 8.1 | | | |
| 7/12/2017 | | | | 8 | 7.3 | | 7.4 | 6.7 | 6.6 |
| 10/17/2017 | 3.3 | | | | | | | | |
| 10/18/2017 | | 5.1 | 5.1 | 7.8 | | 8.2 | 7.6 | 6.8 | |
| 10/19/2017 | | | | | 7.4 | | | | 6.5 |
| 2/20/2018 | 3.3 | 5.1 | 5.5 | | | | | | |
| 2/21/2018 | | | | 7.2 | 7.6 | 7.3 | 7.4 | 7.1 | 7.6 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 2.9 | 4.9 | 5.1 | | | | | | |
| 7/12/2018 | | | | 7.5 | 7.1 | 7.2 | | | 6.3 |
| 9/12/2018 | 2.8 | 4.8 | | | | | | | |
| 9/13/2018 | | | 5 | 6.8 | 6.6 | 7.3 | | 6.7 | |
| 9/14/2018 | | | | | | | | | 6.1 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 3.3 | | | | | | | | |
| 3/27/2019 | | 5.2 | 4.7 | | | 7.3 | | 6.5 | |
| 3/28/2019 | | | | 7.4 | 6.4 | | 7.3 | | 6.4 |
| 9/10/2019 | | | 3.8 | | | | | | |
| 10/1/2019 | 3.6 | | | | | | | | |
| 10/2/2019 | | 5.4 | | 8 | | 7.7 | 7.9 | | |
| 10/3/2019 | | | | | 5.9 | | | 7 | 5.6 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | |
| 9/12/2018 | | 3.7 | | | 2.3 |
| 9/13/2018 | 2.3 | | 2.2 | | |
| 9/14/2018 | | | | | |
| 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 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

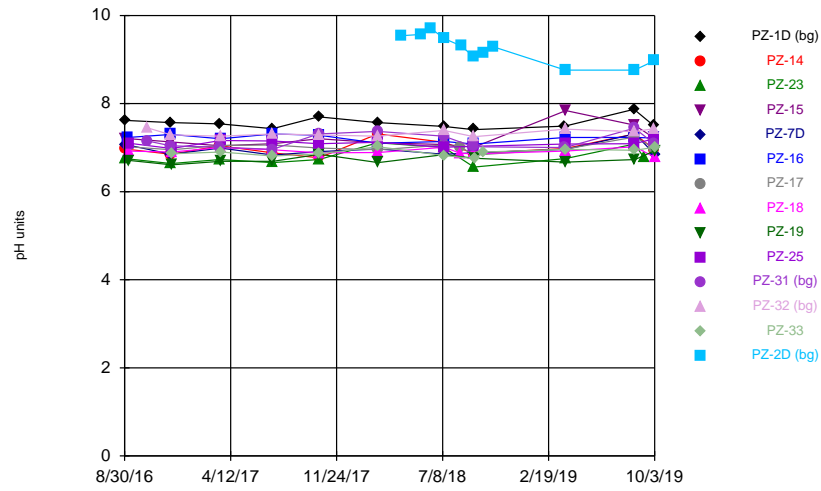
| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 8/30/2016 | 0.06 (X) | | | | | | | | |
| 8/31/2016 | | 0.13 (X) | 0.13 (X) | | | | | | |
| 9/1/2016 | | | | 0.06 (X) | <0.3 | | | | |
| 9/6/2016 | | | | | | 0.09 (X) | | | |
| 9/7/2016 | | | | | | | 0.03 (X) | 0.12 (X) | 0.15 (X) |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 0.06 (X) | | | | | | | | |
| 12/7/2016 | | 0.07 (X) | 0.13 (X) | 0.09 (X) | 0.15 (X) | 0.09 (X) | | | |
| 12/8/2016 | | | | | | | 0.18 (X) | 0.18 (X) | 0.12 (X) |
| 3/21/2017 | 0.004 (X) | <0.3 | 0.05 (X) | | | | | | |
| 3/22/2017 | | | | 0.11 (X) | 0.09 (X) | 0.04 (X) | 0.09 (X) | 0.08 (X) | |
| 3/23/2017 | | | | | | | | | 0.14 (X) |
| 7/11/2017 | 0.05 (X) | 0.05 (X) | 0.05 (X) | | | 0.05 (X) | | | |
| 7/12/2017 | | | | 0.23 (X) | 0.02 (X) | | 0.21 (X) | 0.17 (X) | 0.07 (X) |
| 10/17/2017 | <0.3 | | | | | | | | |
| 10/18/2017 | | 0.11 (X) | <0.3 | 0.19 (X) | | 0.04 (X) | 0.24 (X) | 0.06 (X) | |
| 10/19/2017 | | | | | <0.3 | | | | <0.3 |
| 2/20/2018 | 0.098 (X) | 0.04 (X) | 0.3 (X) | | | | | | |
| 2/21/2018 | | | | 0.093 (X) | 0.045 (X) | <0.3 | 0.24 (X) | 0.086 (X) | 0.37 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | <0.3 | <0.3 | 0.077 (X) | | | | | | |
| 7/12/2018 | | | | <0.3 | <0.3 | <0.3 | | | 0.17 (X) |
| 9/12/2018 | 0.034 (X) | <0.3 | | | | | | | |
| 9/13/2018 | | | <0.3 | 0.15 (X) | <0.3 | <0.3 | | <0.3 | |
| 9/14/2018 | | | | | | | | | <0.3 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | <0.3 | | | | | | | | |
| 3/27/2019 | | <0.3 | <0.3 | | | <0.3 | | <0.3 | |
| 3/28/2019 | | | | 0.1 (X) | <0.3 | | 0.15 (X) | | 0.074 (X) |
| 8/20/2019 | <0.3 | | | | | | | | |
| 8/21/2019 | | <0.3 | <0.3 | 0.044 (X) | | <0.3 | | | |
| 8/22/2019 | | | | | <0.3 | | 0.11 (X) | <0.3 | 0.1 (X) |
| 9/10/2019 | | | <0.3 | | | | | | |
| 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) |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

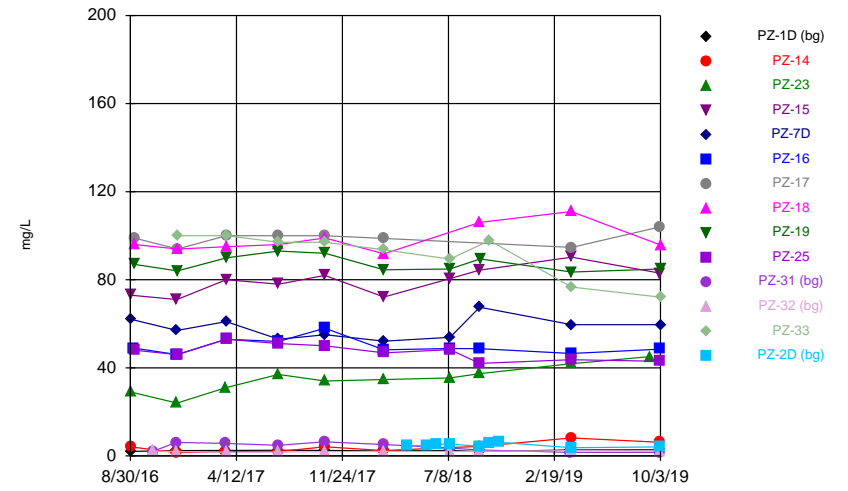
| | PZ-25 | PZ-31 (bg) | PZ-32 (bg) | PZ-33 | PZ-2D (bg) |
|------------|----------|------------|------------|-----------|------------|
| 8/30/2016 | | | | | |
| 8/31/2016 | | | | | |
| 9/1/2016 | | | | | |
| 9/6/2016 | | | | | |
| 9/7/2016 | | | | | |
| 9/8/2016 | 0.25 (X) | | | | |
| 10/18/2016 | | 0.16 (X) | 0.11 (X) | | |
| 12/6/2016 | | 0.15 (X) | | | |
| 12/7/2016 | | | 0.07 (X) | | |
| 12/8/2016 | 0.22 (X) | | | 0.21 (X) | |
| 3/21/2017 | | 0.02 (X) | | | |
| 3/22/2017 | 0.16 (X) | | | | |
| 3/23/2017 | | | <0.3 | 0.18 (X) | |
| 7/11/2017 | 0.23 (X) | 0.06 (X) | 0.02 (X) | | |
| 7/12/2017 | | | | 0.06 (X) | |
| 10/17/2017 | | 0.05 (X) | <0.3 | | |
| 10/18/2017 | 0.28 (X) | | | | |
| 10/19/2017 | | | | <0.3 | |
| 2/20/2018 | | 0.21 (X) | <0.3 | | |
| 2/21/2018 | 0.29 (X) | | | 0.039 (X) | |
| 4/12/2018 | | | | | <0.3 |
| 5/23/2018 | | | | | 0.063 (X) |
| 6/13/2018 | | | | | 0.11 (X) |
| 7/11/2018 | | 0.087 (X) | <0.3 | | <0.3 |
| 7/12/2018 | 0.21 (X) | | | <0.3 | |
| 9/12/2018 | | 0.049 (X) | | | 0.093 (X) |
| 9/13/2018 | 0.22 (X) | | <0.3 | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 0.15 (X) | 0.15 (X) |
| 10/24/2018 | | | | | 0.29 (X) |
| 3/26/2019 | | <0.3 | | | |
| 3/27/2019 | 0.37 | | <0.3 | | 0.04 (X) |
| 3/28/2019 | | | | <0.3 | |
| 8/20/2019 | | | <0.3 | | |
| 8/21/2019 | 0.11 (X) | <0.3 | | | 0.046 (X) |
| 8/22/2019 | | | | <0.3 | |
| 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) | |

Time Series



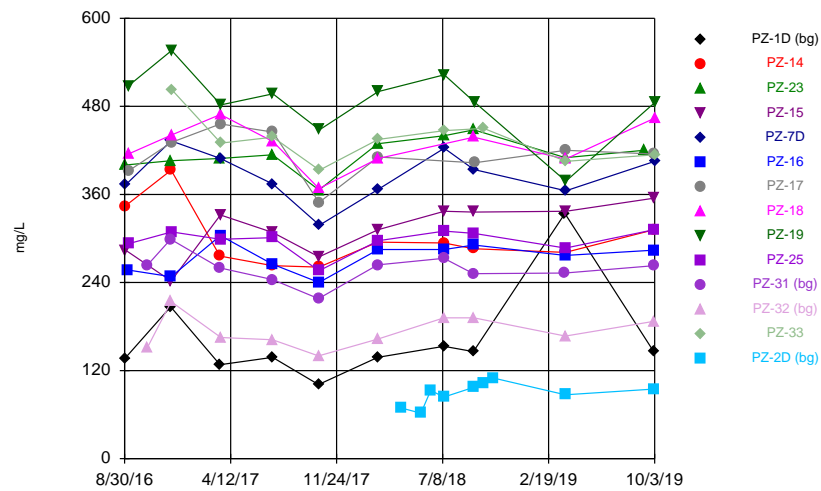
Constituent: pH Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Sulfate Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Total Dissolved Solids Analysis Run 2/24/2020 11:38 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: pH (pH units) Analysis Run 2/24/2020 11:41 AM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 7.62 | | | | | | | | |
| 8/31/2016 | | 6.97 | 6.75 | | | | | | |
| 9/1/2016 | | | | 7.21 | 7.07 | | | | |
| 9/6/2016 | | | | | | 7.23 | | | |
| 9/7/2016 | | | | | | | 7.02 | 6.92 | 6.71 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 7.57 | | | | | | | | |
| 12/7/2016 | | 6.85 | 6.64 | 7.13 | 6.85 | 7.3 | | | |
| 12/8/2016 | | | | | | | 6.95 | 6.9 | 6.61 |
| 3/21/2017 | 7.54 | 7.04 | 6.73 | | | | | | |
| 3/22/2017 | | | | 7.04 | 6.99 | 7.2 | 7.05 | 7 | |
| 3/23/2017 | | | | | | | | | 6.69 |
| 7/11/2017 | 7.43 | 6.88 | 6.66 | | | 7.31 | | | |
| 7/12/2017 | | | | 7.09 | 6.83 | | 7.06 | 6.95 | 6.69 |
| 10/17/2017 | 7.7 | | | | | | | | |
| 10/18/2017 | | 6.77 | 6.73 | 7.2 | | 7.28 | 6.99 | 6.88 | |
| 10/19/2017 | | | | | 6.91 | | | | 6.85 |
| 2/20/2018 | 7.57 | 7.31 | 7.11 | | | | | | |
| 2/21/2018 | | | | 7.11 | 6.97 | 7.1 | 6.95 | 6.89 | 6.66 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 7.48 | 7.12 | 7 | | | | | | |
| 7/12/2018 | | | | 7.07 | 6.85 | 7.14 | 7.06 | 7.01 | 6.84 |
| 8/15/2018 | | | | | | | | 6.87 | |
| 8/16/2018 | | | | | | | 7.01 | | |
| 8/17/2018 | | | | | | | | | |
| 9/12/2018 | 7.41 | 6.87 | | | | | | | |
| 9/13/2018 | | | 6.56 | 7.01 | 6.88 | 7.08 | | 6.86 | |
| 9/14/2018 | | | | | | | 6.83 | | 6.76 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 7.49 | | | | | | | | |
| 3/27/2019 | | 6.98 | 6.75 | | | 7.23 | | 6.92 | |
| 3/28/2019 | | | | 7.84 | 6.96 | | 6.97 | | 6.67 |
| 8/20/2019 | 7.87 | | | | | | | | |
| 8/21/2019 | | 7.31 | 7.08 | 7.51 | | 7.23 | | | |
| 8/22/2019 | | | | | 7.31 | | 7.24 | 7.02 | 6.73 |
| 9/10/2019 | | | 6.78 | | | | | | |
| 10/1/2019 | 7.5 | | | | | | | | |
| 10/2/2019 | | 6.96 | | 7.22 | | 7.22 | 6.99 | | |
| 10/3/2019 | | | | | 6.85 | | | 6.78 | 6.93 |

Time Series

Constituent: pH (pH units) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 | 7.1 | | | | |
| 10/18/2016 | | 7.15 | 7.45 | | |
| 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 | | | 7.26 | 6.9 | |
| 7/11/2017 | 7.15 | 6.96 | 7.31 | | |
| 7/12/2017 | | | | 6.81 | |
| 10/17/2017 | | 7.31 | 7.29 | | |
| 10/18/2017 | 7.09 | | | | |
| 10/19/2017 | | | | 6.86 | |
| 2/20/2018 | | 7.37 | 7.26 | | |
| 2/21/2018 | 7.12 | | | 7.02 | |
| 4/12/2018 | | | | | 9.54 |
| 5/23/2018 | | | | | 9.57 |
| 6/13/2018 | | | | | 9.71 |
| 7/11/2018 | | 7.26 | 7.39 | | 9.48 |
| 7/12/2018 | 7.01 | | | 6.82 | |
| 8/15/2018 | | | | | |
| 8/16/2018 | | | | | |
| 8/17/2018 | | | | | 9.31 |
| 9/12/2018 | | 7.02 | | | 9.07 |
| 9/13/2018 | 7.03 | | 7.25 | | |
| 9/14/2018 | | | | 6.75 | |
| 10/4/2018 | | | | 6.9 | 9.16 |
| 10/24/2018 | | | | | 9.29 |
| 3/26/2019 | | 7 | | | |
| 3/27/2019 | 7.08 | | 7.42 | | 8.76 |
| 3/28/2019 | | | | 6.96 | |
| 8/20/2019 | | | 7.36 | | |
| 8/21/2019 | 7.09 | 7.44 | | | 8.76 |
| 8/22/2019 | | | | 6.94 | |
| 9/10/2019 | | | | | |
| 10/1/2019 | | | 7.43 | | |
| 10/2/2019 | 7.2 | 7.09 | | | 8.97 |
| 10/3/2019 | | | | 7.01 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 2.1 | | | | | | | | |
| 8/31/2016 | | 4.1 | 29 | | | | | | |
| 9/1/2016 | | | | 73 | 62 | | | | |
| 9/6/2016 | | | | | | 49 | | | |
| 9/7/2016 | | | | | | | 99 | 96 | 87 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 2.4 | | | | | | | | |
| 12/7/2016 | | 1.5 | 24 | 71 | 57 | 46 | | | |
| 12/8/2016 | | | | | | | 94 | 94 | 84 |
| 3/21/2017 | 2.5 | 2 | 31 | | | | | | |
| 3/22/2017 | | | | 80 | 61 | 53 | 100 | 95 | |
| 3/23/2017 | | | | | | | | | 90 |
| 7/11/2017 | 2.6 | 2 | 37 | | | 52 | | | |
| 7/12/2017 | | | | 78 | 53 | | 100 | 96 | 93 |
| 10/17/2017 | 2.5 | | | | | | | | |
| 10/18/2017 | | 4.2 | 34 | 82 | | 58 | 100 | 99 | |
| 10/19/2017 | | | | | 55 | | | | 92 |
| 2/20/2018 | 2.3 | 2.4 | 34.7 | | | | | | |
| 2/21/2018 | | | | 72.2 | 52.1 | 48.2 | 98.8 | 91.8 | 84.5 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 2.5 | 3.8 | 35.4 | | | | | | |
| 7/12/2018 | | | | 80.5 | 53.9 | 48.8 | | | 84.9 |
| 9/12/2018 | 2 | 4.3 | | | | | | | |
| 9/13/2018 | | | 37.4 | 84.4 | 67.5 | 48.7 | | 106 | |
| 9/14/2018 | | | | | | | | | 89.5 |
| 10/4/2018 | | | | | | | | | |
| 10/24/2018 | | | | | | | | | |
| 3/26/2019 | 2.7 | | | | | | | | |
| 3/27/2019 | | 8.2 | 41.9 | | | 46.5 | | 111 | |
| 3/28/2019 | | | | 90.3 | 59.6 | | 94.7 | | 83.5 |
| 9/10/2019 | | | 45.1 | | | | | | |
| 10/1/2019 | 2.8 | | | | | | | | |
| 10/2/2019 | | 6.2 | | 83 | | 48.5 | 104 | | |
| 10/3/2019 | | | | | 59.6 | | | 95.8 | 84.9 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | 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 (X) |
| 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 | |
| 9/12/2018 | | 2.7 | | | 4.4 |
| 9/13/2018 | 42 | | 2.1 | | |
| 9/14/2018 | | | | | |
| 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 | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

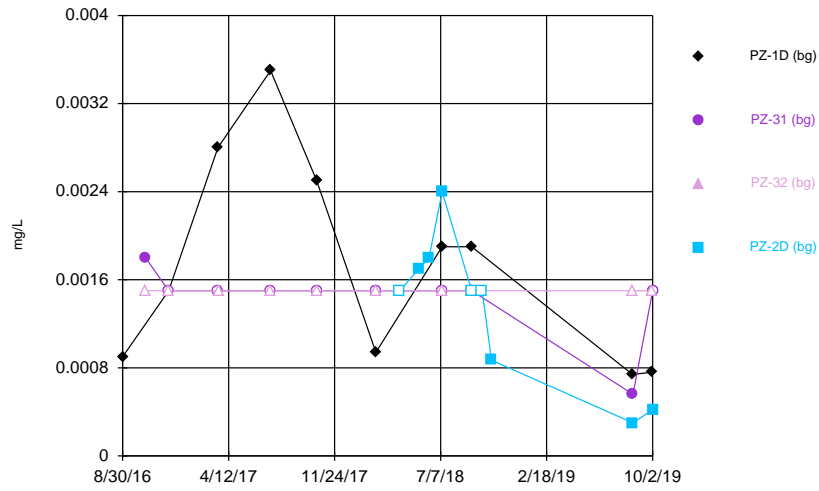
| | PZ-1D (bg) | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8/30/2016 | 136 | | | | | | | | |
| 8/31/2016 | | 344 | 400 | | | | | | |
| 9/1/2016 | | | | 284 | 373 | | | | |
| 9/6/2016 | | | | | | 257 | | | |
| 9/7/2016 | | | | | | | 392 | 415 | 508 |
| 9/8/2016 | | | | | | | | | |
| 10/18/2016 | | | | | | | | | |
| 12/6/2016 | 207 | | | | | | | | |
| 12/7/2016 | | 393 | 406 | 242 | 433 | 248 | | | |
| 12/8/2016 | | | | | | | 431 | 441 | 556 |
| 3/21/2017 | 128 | 276 | 409 | | | | | | |
| 3/22/2017 | | | | 332 | 409 | 304 | 456 | 469 | |
| 3/23/2017 | | | | | | | | | 482 |
| 7/11/2017 | 138 | 263 | 414 | | | 265 | | | |
| 7/12/2017 | | | | 308 | 374 | | 445 | 432 | 497 |
| 10/17/2017 | 101 | | | | | | | | |
| 10/18/2017 | | 261 | 366 | 275 | | 240 | 349 | 368 | |
| 10/19/2017 | | | | | 318 | | | | 448 |
| 2/20/2018 | 138 | 295 | 429 | | | | | | |
| 2/21/2018 | | | | 312 | 367 | 285 | 411 | 409 | 500 |
| 4/12/2018 | | | | | | | | | |
| 5/23/2018 | | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 7/11/2018 | 153 | 294 | 440 | | | | | | |
| 7/12/2018 | | | | 337 | 423 | 285 | | | 523 |
| 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 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/24/2020 11:41 AM View: App III all wells
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

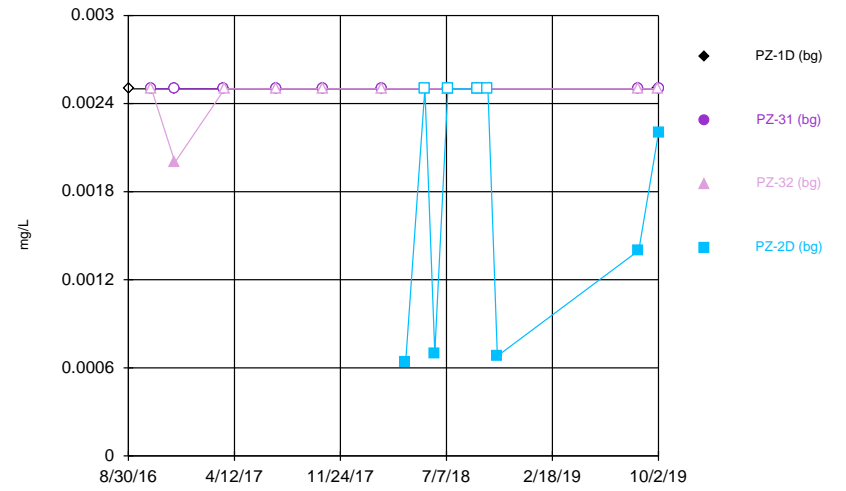
| | PZ-25 | PZ-31 (bg) | PZ-32 (bg) | PZ-33 | PZ-2D (bg) |
|------------|-------|------------|------------|-------|------------|
| 8/30/2016 | | | | | |
| 8/31/2016 | | | | | |
| 9/1/2016 | | | | | |
| 9/6/2016 | | | | | |
| 9/7/2016 | | | | | |
| 9/8/2016 | 293 | | | | |
| 10/18/2016 | | 264 | 152 | | |
| 12/6/2016 | | 299 | | | |
| 12/7/2016 | | | 214 | | |
| 12/8/2016 | 309 | | | 503 | |
| 3/21/2017 | | 260 | | | |
| 3/22/2017 | 299 | | | | |
| 3/23/2017 | | | 165 | 430 | |
| 7/11/2017 | 301 | 244 | 162 | | |
| 7/12/2017 | | | | 438 | |
| 10/17/2017 | | 218 | 140 | | |
| 10/18/2017 | 256 | | | | |
| 10/19/2017 | | | | 393 | |
| 2/20/2018 | | 264 | 163 | | |
| 2/21/2018 | 297 | | | 435 | |
| 4/12/2018 | | | | | 69 |
| 5/23/2018 | | | | | 62 |
| 6/13/2018 | | | | | 93 |
| 7/11/2018 | | 273 | 192 | | 84 |
| 7/12/2018 | 310 | | | 447 | |
| 9/12/2018 | | 252 | | | 97 |
| 9/13/2018 | 307 | | 192 | | |
| 9/14/2018 | | | | | |
| 10/4/2018 | | | | 450 | 103 |
| 10/24/2018 | | | | | 110 |
| 3/26/2019 | | 253 | | | |
| 3/27/2019 | 287 | | 167 | | 87 |
| 3/28/2019 | | | | 405 | |
| 9/10/2019 | | | | | |
| 10/1/2019 | | | 187 | | |
| 10/2/2019 | 312 | 263 | | | 95 |
| 10/3/2019 | | | | 414 | |

Time Series



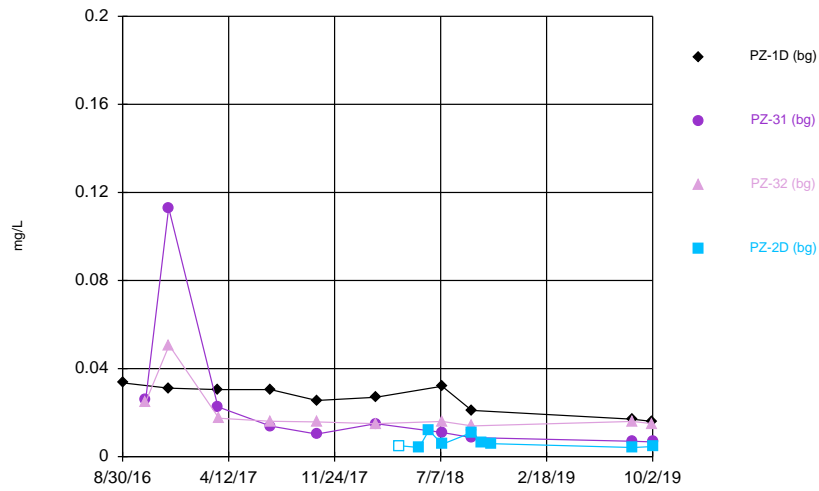
Constituent: Antimony Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



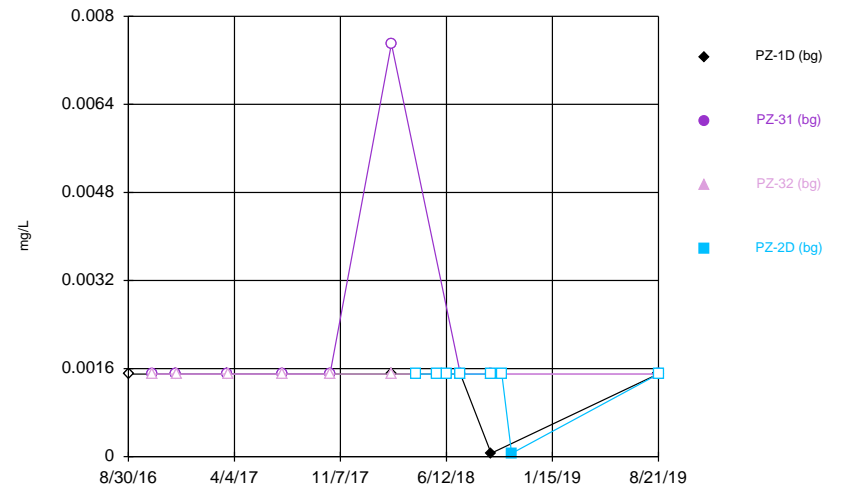
Constituent: Arsenic Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Barium Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Beryllium Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|-------------|-------------|------------|-------------|
| 8/30/2016 | 0.0009 (X) | | | |
| 10/18/2016 | | 0.0018 (X) | <0.003 | |
| 12/6/2016 | <0.003 | <0.003 | | |
| 12/7/2016 | | | <0.003 | |
| 3/21/2017 | 0.0028 (X) | <0.003 | | |
| 3/23/2017 | | | <0.003 | |
| 7/11/2017 | 0.0035 | <0.003 | <0.003 | |
| 10/17/2017 | 0.0025 (X) | <0.003 | <0.003 | |
| 2/20/2018 | 0.00094 (X) | <0.003 | <0.003 | |
| 4/12/2018 | | | | <0.003 |
| 5/23/2018 | | | | 0.0017 (X) |
| 6/13/2018 | | | | 0.0018 (X) |
| 7/11/2018 | 0.0019 (X) | <0.003 | <0.003 | 0.0024 (X) |
| 9/12/2018 | 0.0019 (X) | <0.003 | | <0.003 |
| 9/13/2018 | | | <0.003 | |
| 10/4/2018 | | | | <0.003 |
| 10/24/2018 | | | | 0.00087 (X) |
| 8/20/2019 | 0.00074 (X) | | <0.003 | |
| 8/21/2019 | | 0.00056 (X) | | 0.0003 (X) |
| 10/1/2019 | 0.00076 (X) | | <0.003 | |
| 10/2/2019 | | <0.003 | | 0.00042 (X) |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|-------------|
| 8/30/2016 | <0.005 | | | |
| 10/18/2016 | | <0.005 | <0.005 | |
| 12/6/2016 | <0.005 | <0.005 | | |
| 12/7/2016 | | | 0.002 (X) | |
| 3/21/2017 | <0.005 | <0.005 | | |
| 3/23/2017 | | | <0.005 | |
| 7/11/2017 | <0.005 | <0.005 | <0.005 | |
| 10/17/2017 | <0.005 | <0.005 | <0.005 | |
| 2/20/2018 | <0.005 | <0.005 | <0.005 | |
| 4/12/2018 | | | | 0.00064 (X) |
| 5/23/2018 | | | | <0.005 |
| 6/13/2018 | | | | 0.0007 (X) |
| 7/11/2018 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/12/2018 | <0.005 | <0.005 | | <0.005 |
| 9/13/2018 | | | <0.005 | |
| 10/4/2018 | | | | <0.005 |
| 10/24/2018 | | | | 0.00068 (X) |
| 8/20/2019 | <0.005 | | <0.005 | |
| 8/21/2019 | | <0.005 | | 0.0014 (X) |
| 10/1/2019 | <0.005 | | <0.005 | |
| 10/2/2019 | | <0.005 | | 0.0022 (X) |

Time Series

Constituent: Barium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

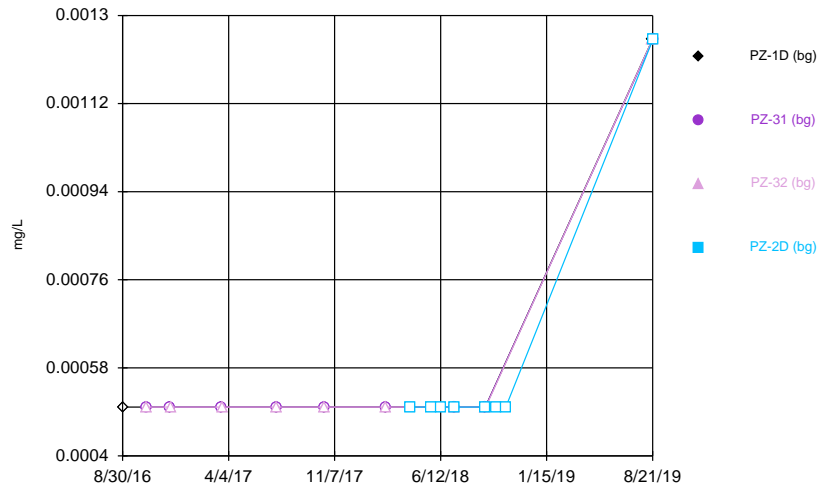
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 0.0335 | | | |
| 10/18/2016 | | 0.0257 | 0.0248 | |
| 12/6/2016 | 0.0311 | 0.113 | | |
| 12/7/2016 | | | 0.0506 | |
| 3/21/2017 | 0.0305 | 0.0226 | | |
| 3/23/2017 | | | 0.0175 | |
| 7/11/2017 | 0.0305 | 0.0139 | 0.0161 | |
| 10/17/2017 | 0.0255 | 0.0103 | 0.0158 | |
| 2/20/2018 | 0.027 | 0.015 | 0.015 | |
| 4/12/2018 | | | | <0.01 |
| 5/23/2018 | | | | 0.0042 (X) |
| 6/13/2018 | | | | 0.012 |
| 7/11/2018 | 0.032 | 0.011 | 0.016 | 0.0056 (X) |
| 9/12/2018 | 0.021 | 0.0087 (X) | | 0.011 |
| 9/13/2018 | | | 0.014 | |
| 10/4/2018 | | | | 0.0066 (X) |
| 10/24/2018 | | | | 0.0059 (X) |
| 8/20/2019 | 0.017 | | 0.016 | |
| 8/21/2019 | | 0.007 (X) | | 0.0042 (X) |
| 10/1/2019 | 0.016 | | 0.015 | |
| 10/2/2019 | | 0.0067 (X) | | 0.0046 (X) |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

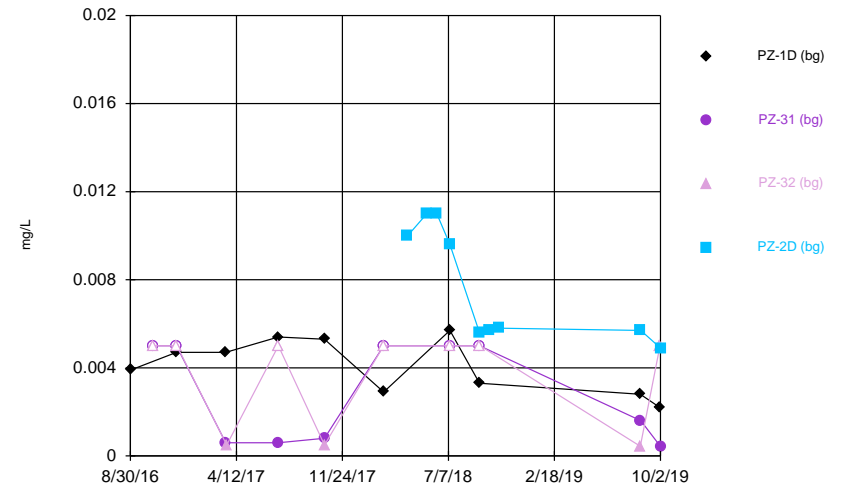
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|-------------|------------|------------|------------|
| 8/30/2016 | <0.003 | | | |
| 10/18/2016 | | <0.003 | <0.003 | |
| 12/6/2016 | <0.003 | <0.003 | | |
| 12/7/2016 | | | <0.003 | |
| 3/21/2017 | <0.003 | <0.003 | | |
| 3/23/2017 | | | <0.003 | |
| 7/11/2017 | <0.003 | <0.003 | <0.003 | |
| 10/17/2017 | <0.003 | <0.003 | <0.003 | |
| 2/20/2018 | <0.003 | <0.015 | <0.003 | |
| 4/12/2018 | | | | <0.003 |
| 5/23/2018 | | | | <0.003 |
| 6/13/2018 | | | | <0.003 |
| 7/11/2018 | <0.003 | <0.003 | <0.003 | <0.003 |
| 9/12/2018 | 6.1E-05 (X) | <0.003 | | <0.003 |
| 9/13/2018 | | | <0.003 | |
| 10/4/2018 | | | | <0.003 |
| 10/24/2018 | | | | 6E-05 (X) |
| 8/20/2019 | <0.003 | | <0.003 | |
| 8/21/2019 | | <0.003 | | <0.003 |

Time Series



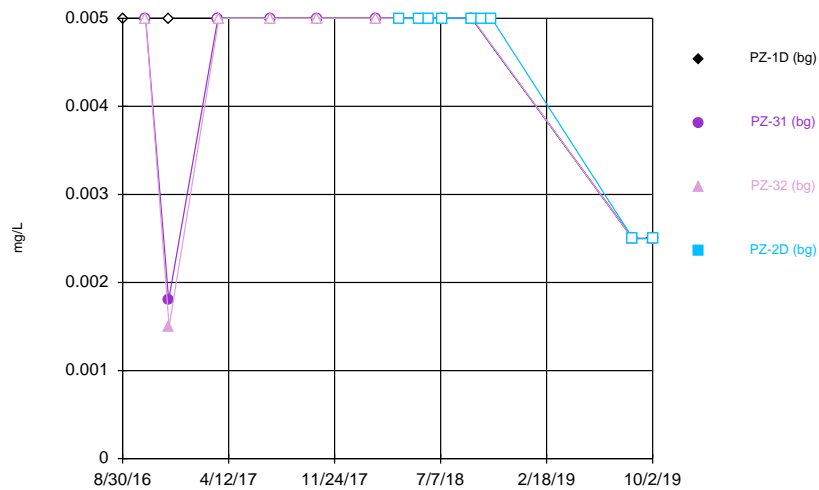
Constituent: Cadmium Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



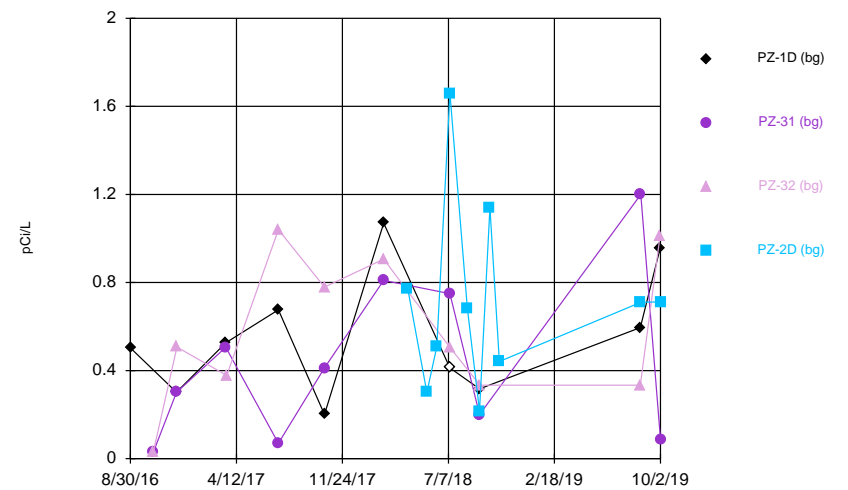
Constituent: Chromium Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Cobalt Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Combined Radium 226 + Radium 228 Analysis Run 2/24/2020 4:16 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | <0.001 | | | |
| 10/18/2016 | | <0.001 | <0.001 | |
| 12/6/2016 | <0.001 | <0.001 | | |
| 12/7/2016 | | | <0.001 | |
| 3/21/2017 | <0.001 | <0.001 | | |
| 3/23/2017 | | | <0.001 | |
| 7/11/2017 | <0.001 | <0.001 | <0.001 | |
| 10/17/2017 | <0.001 | <0.001 | <0.001 | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.001 | <0.001 | | <0.001 |
| 9/13/2018 | | | <0.001 | |
| 10/4/2018 | | | | <0.001 |
| 10/24/2018 | | | | <0.001 |
| 8/20/2019 | <0.0025 | | <0.0025 | |
| 8/21/2019 | | <0.0025 | | <0.0025 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|-------------|-------------|------------|
| 8/30/2016 | 0.0039 (X) | | | |
| 10/18/2016 | | <0.01 | <0.01 | |
| 12/6/2016 | 0.0047 (X) | <0.01 | | |
| 12/7/2016 | | | <0.01 | |
| 3/21/2017 | 0.0047 (X) | 0.0006 (X) | | |
| 3/23/2017 | | | 0.0005 (X) | |
| 7/11/2017 | 0.0054 (X) | 0.0006 (X) | <0.01 | |
| 10/17/2017 | 0.0053 (X) | 0.0008 (X) | 0.0005 (X) | |
| 2/20/2018 | 0.0029 (X) | <0.01 | <0.01 | |
| 4/12/2018 | | | | 0.01 |
| 5/23/2018 | | | | 0.011 |
| 6/13/2018 | | | | 0.011 |
| 7/11/2018 | 0.0057 (X) | <0.01 | <0.01 | 0.0096 (X) |
| 9/12/2018 | 0.0033 (X) | <0.01 | | 0.0056 (X) |
| 9/13/2018 | | | <0.01 | |
| 10/4/2018 | | | | 0.0057 (X) |
| 10/24/2018 | | | | 0.0058 (X) |
| 8/20/2019 | 0.0028 (X) | | 0.00044 (X) | |
| 8/21/2019 | | 0.0016 (X) | | 0.0057 (X) |
| 10/1/2019 | 0.0022 (X) | | <0.01 | |
| 10/2/2019 | | 0.00043 (X) | | 0.0049 (X) |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | <0.01 | | | |
| 10/18/2016 | | <0.01 | <0.01 | |
| 12/6/2016 | <0.01 | 0.0018 (X) | | |
| 12/7/2016 | | | 0.0015 (X) | |
| 3/21/2017 | <0.01 | <0.01 | | |
| 3/23/2017 | | | <0.01 | |
| 7/11/2017 | <0.01 | <0.01 | <0.01 | |
| 10/17/2017 | <0.01 | <0.01 | <0.01 | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.01 | <0.01 | | <0.01 |
| 9/13/2018 | | | <0.01 | |
| 10/4/2018 | | | | <0.01 |
| 10/24/2018 | | | | <0.01 |
| 8/20/2019 | <0.005 | | <0.005 | |
| 8/21/2019 | | <0.005 | | <0.005 |
| 10/1/2019 | <0.005 | | <0.005 | |
| 10/2/2019 | | <0.005 | | <0.005 |

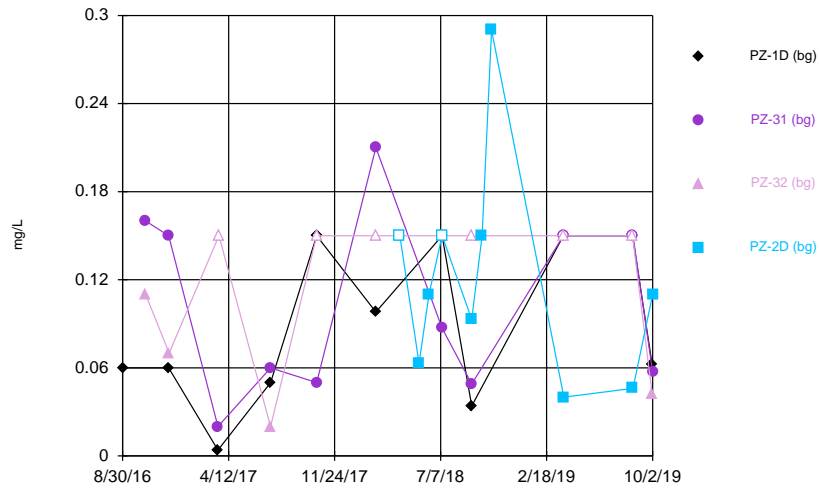
Time Series

Constituent: Combined Radium 226 + Radium 228 (pCi/L) Analysis Run 2/24/2020 4:18 PM View: App IV background

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

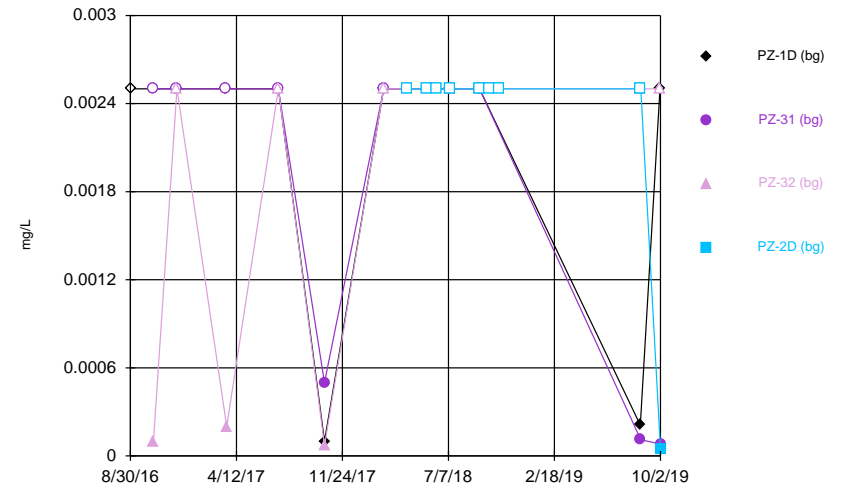
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 0.503 | | | |
| 10/18/2016 | | 0.0311 | 0.0333 | |
| 12/6/2016 | 0.302 | 0.301 | | |
| 12/7/2016 | | | 0.507 | |
| 3/21/2017 | 0.526 | 0.506 | | |
| 3/23/2017 | | | 0.378 | |
| 7/11/2017 | 0.676 (U) | 0.0701 (U) | 1.04 | |
| 10/17/2017 | 0.201 (U) | 0.412 (U) | 0.779 (U) | |
| 2/20/2018 | 1.07 | 0.81 | 0.906 | |
| 4/12/2018 | | | | 0.774 |
| 5/23/2018 | | | | 0.301 (U) |
| 6/13/2018 | | | | 0.508 (U) |
| 7/11/2018 | <0.825 (U) | 0.749 (U) | 0.505 (U) | 1.66 |
| 8/17/2018 | | | | 0.683 (U) |
| 9/12/2018 | 0.317 (U) | 0.2 (U) | | 0.217 (U) |
| 9/13/2018 | | | 0.334 (U) | |
| 10/4/2018 | | | | 1.14 |
| 10/24/2018 | | | | 0.441 (U) |
| 8/20/2019 | 0.595 (U) | | 0.334 (U) | |
| 8/21/2019 | | 1.2 (U) | | 0.71 (U) |
| 10/1/2019 | 0.953 (U) | | 1.01 (U) | |
| 10/2/2019 | | 0.0883 (U) | | 0.712 (U) |

Time Series



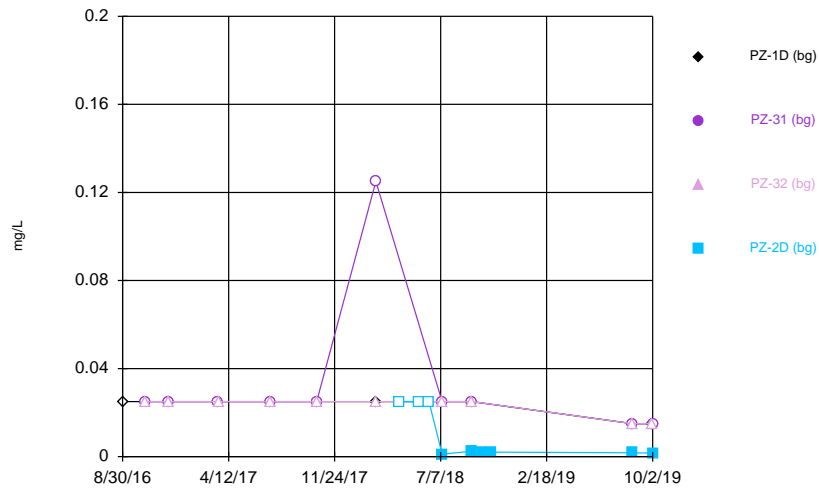
Constituent: Fluoride Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



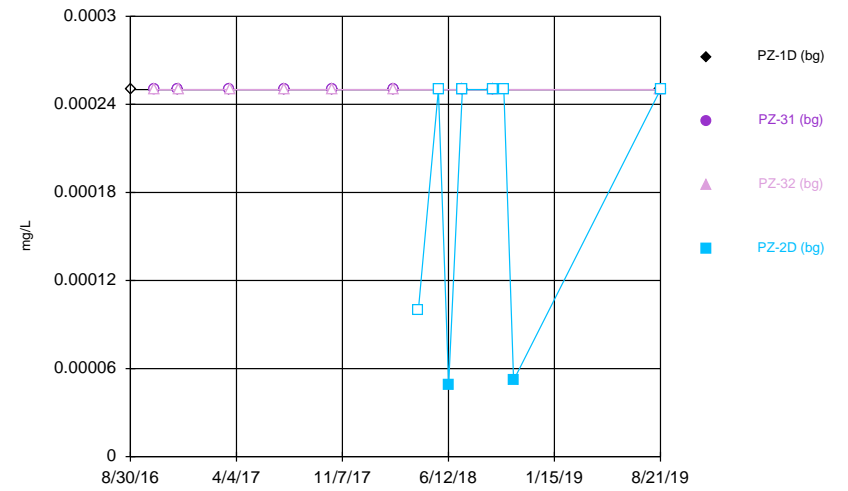
Constituent: Lead Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Lithium Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Mercury Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | 0.06 (X) | | | |
| 10/18/2016 | | 0.16 (X) | 0.11 (X) | |
| 12/6/2016 | 0.06 (X) | 0.15 (X) | | |
| 12/7/2016 | | | 0.07 (X) | |
| 3/21/2017 | 0.004 (X) | 0.02 (X) | | |
| 3/23/2017 | | | <0.3 | |
| 7/11/2017 | 0.05 (X) | 0.06 (X) | 0.02 (X) | |
| 10/17/2017 | <0.3 | 0.05 (X) | <0.3 | |
| 2/20/2018 | 0.098 (X) | 0.21 (X) | <0.3 | |
| 4/12/2018 | | | | <0.3 |
| 5/23/2018 | | | | 0.063 (X) |
| 6/13/2018 | | | | 0.11 (X) |
| 7/11/2018 | <0.3 | 0.087 (X) | <0.3 | <0.3 |
| 9/12/2018 | 0.034 (X) | 0.049 (X) | | 0.093 (X) |
| 9/13/2018 | | | <0.3 | |
| 10/4/2018 | | | | 0.15 (X) |
| 10/24/2018 | | | | 0.29 (X) |
| 3/26/2019 | <0.3 | <0.3 | | |
| 3/27/2019 | | | <0.3 | 0.04 (X) |
| 8/20/2019 | <0.3 | | <0.3 | |
| 8/21/2019 | | <0.3 | | 0.046 (X) |
| 10/1/2019 | 0.062 (X) | | 0.042 (X) | |
| 10/2/2019 | | 0.057 (X) | | 0.11 (X) |

Time Series

Constituent: Lead (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|-------------|-------------|------------|-------------|
| 8/30/2016 | <0.005 | | | |
| 10/18/2016 | | <0.005 | 0.0001 (X) | |
| 12/6/2016 | <0.005 | <0.005 | | |
| 12/7/2016 | | | <0.005 | |
| 3/21/2017 | <0.005 | <0.005 | | |
| 3/23/2017 | | | 0.0002 (X) | |
| 7/11/2017 | <0.005 | <0.005 | <0.005 | |
| 10/17/2017 | 0.0001 (X) | 0.0005 (X) | 7E-05 (X) | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.005 | <0.005 | | <0.005 |
| 9/13/2018 | | | <0.005 | |
| 10/4/2018 | | | | <0.005 |
| 10/24/2018 | | | | <0.005 |
| 8/20/2019 | 0.00021 (X) | | <0.005 | |
| 8/21/2019 | | 0.00011 (X) | | <0.005 |
| 10/1/2019 | <0.005 | | <0.005 | |
| 10/2/2019 | | 8.1E-05 (X) | | 4.7E-05 (X) |

Time Series

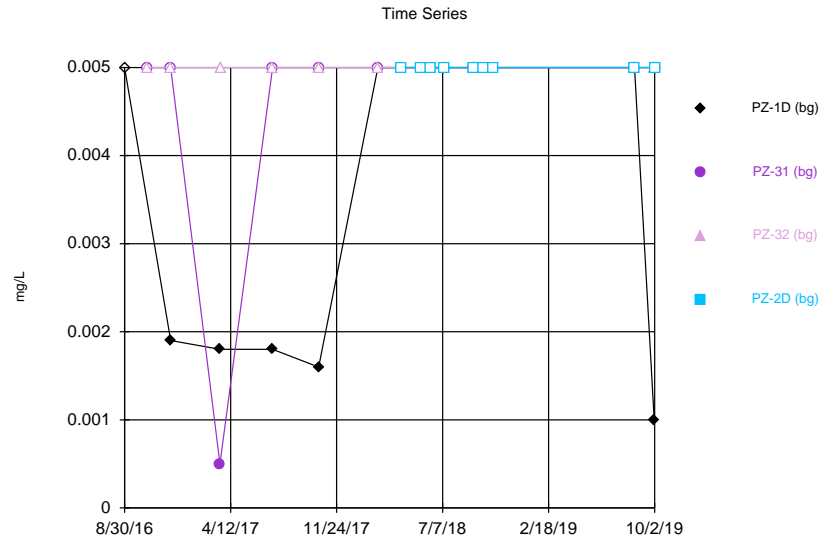
Constituent: Lithium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | <0.05 | | | |
| 10/18/2016 | | <0.05 | <0.05 | |
| 12/6/2016 | <0.05 | <0.05 | | |
| 12/7/2016 | | | <0.05 | |
| 3/21/2017 | <0.05 | <0.05 | | |
| 3/23/2017 | | | <0.05 | |
| 7/11/2017 | <0.05 | <0.05 | <0.05 | |
| 10/17/2017 | <0.05 | <0.05 | <0.05 | |
| 2/20/2018 | <0.05 | <0.25 | <0.05 | |
| 4/12/2018 | | | | <0.05 |
| 5/23/2018 | | | | <0.05 |
| 6/13/2018 | | | | <0.05 |
| 7/11/2018 | <0.05 | <0.05 | <0.05 | 0.0011 (X) |
| 9/12/2018 | <0.05 | <0.05 | | 0.0025 (X) |
| 9/13/2018 | | | <0.05 | |
| 10/4/2018 | | | | 0.0021 (X) |
| 10/24/2018 | | | | 0.0021 (X) |
| 8/20/2019 | <0.03 | | <0.03 | |
| 8/21/2019 | | <0.03 | | 0.0018 (X) |
| 10/1/2019 | <0.03 | | <0.03 | |
| 10/2/2019 | | <0.03 | | 0.0016 (X) |

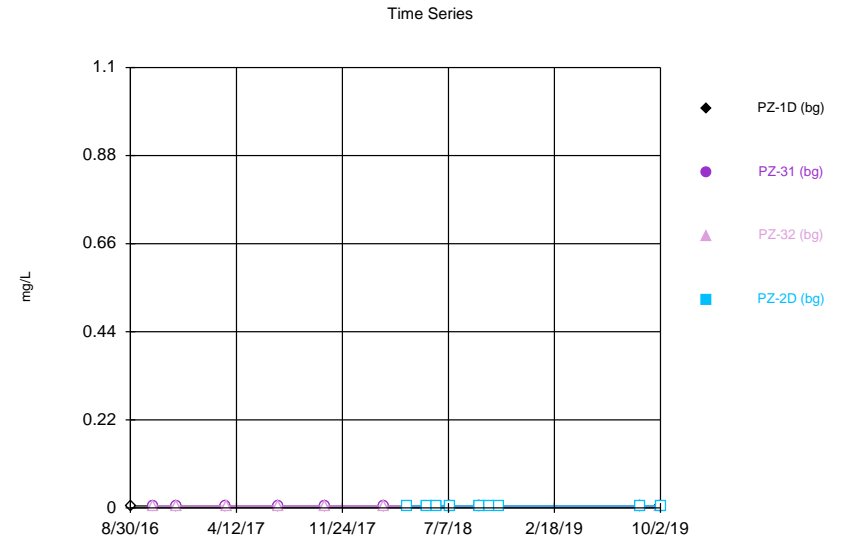
Time Series

Constituent: Mercury (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

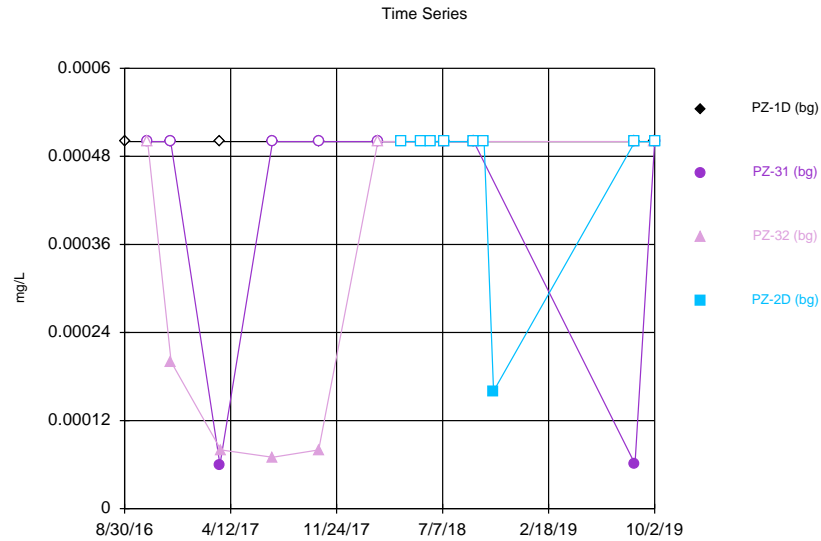
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|-------------|
| 8/30/2016 | <0.0005 | | | |
| 10/18/2016 | | <0.0005 | <0.0005 | |
| 12/6/2016 | <0.0005 | <0.0005 | | |
| 12/7/2016 | | | <0.0005 | |
| 3/21/2017 | <0.0005 | <0.0005 | | |
| 3/23/2017 | | | <0.0005 | |
| 7/11/2017 | <0.0005 | <0.0005 | <0.0005 | |
| 10/17/2017 | <0.0005 | <0.0005 | <0.0005 | |
| 2/20/2018 | <0.0005 | <0.0005 | <0.0005 | |
| 4/12/2018 | | | | <0.0002 |
| 5/23/2018 | | | | <0.0005 |
| 6/13/2018 | | | | 4.9E-05 (X) |
| 7/11/2018 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 9/12/2018 | <0.0005 | <0.0005 | | <0.0005 |
| 9/13/2018 | | | <0.0005 | |
| 10/4/2018 | | | | <0.0005 |
| 10/24/2018 | | | | 5.2E-05 (X) |
| 8/20/2019 | <0.0005 | | <0.0005 | |
| 8/21/2019 | | <0.0005 | | <0.0005 |



Constituent: Molybdenum Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Selenium Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Thallium Analysis Run 2/24/2020 4:17 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | <0.01 | | | |
| 10/18/2016 | | <0.01 | <0.01 | |
| 12/6/2016 | 0.0019 (X) | <0.01 | | |
| 12/7/2016 | | | <0.01 | |
| 3/21/2017 | 0.0018 (X) | 0.0005 (X) | | |
| 3/23/2017 | | | <0.01 | |
| 7/11/2017 | 0.0018 (X) | <0.01 | <0.01 | |
| 10/17/2017 | 0.0016 (X) | <0.01 | <0.01 | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.01 | <0.01 | | <0.01 |
| 9/13/2018 | | | <0.01 | |
| 10/4/2018 | | | | <0.01 |
| 10/24/2018 | | | | <0.01 |
| 8/20/2019 | <0.01 | | <0.01 | |
| 8/21/2019 | | <0.01 | | <0.01 |
| 10/1/2019 | 0.001 (X) | | <0.01 | |
| 10/2/2019 | | <0.01 | | <0.01 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

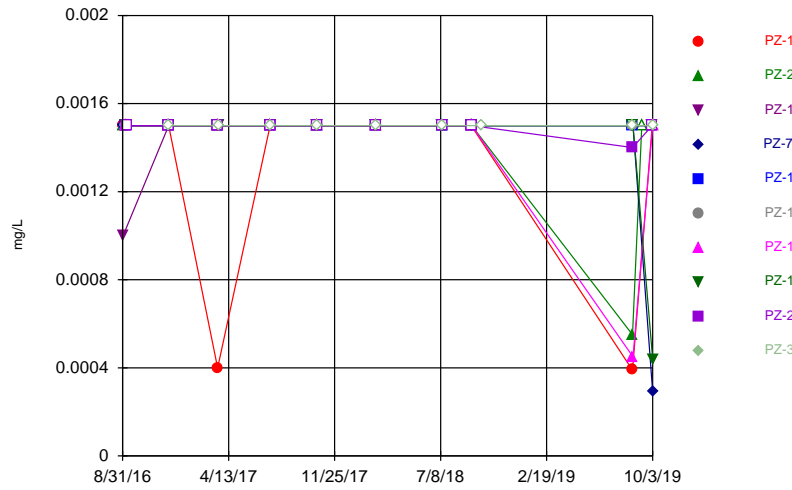
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|------------|------------|------------|
| 8/30/2016 | <0.01 | | | |
| 10/18/2016 | | <0.01 | <0.01 | |
| 12/6/2016 | <0.01 | <0.01 | | |
| 12/7/2016 | | | <0.01 | |
| 3/21/2017 | <0.01 | <0.01 | | |
| 3/23/2017 | | | <0.01 | |
| 7/11/2017 | <0.01 | <0.01 | <0.01 | |
| 10/17/2017 | <0.01 | <0.01 | <0.01 | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.01 | <0.01 | | <0.01 |
| 9/13/2018 | | | <0.01 | |
| 10/4/2018 | | | | <0.01 |
| 10/24/2018 | | | | <0.01 |
| 8/20/2019 | <0.01 | | <0.01 | |
| 8/21/2019 | | <0.01 | | <0.01 |
| 10/1/2019 | <0.01 | | <0.01 | |
| 10/2/2019 | | <0.01 | | <0.01 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/24/2020 4:18 PM View: App IV background
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

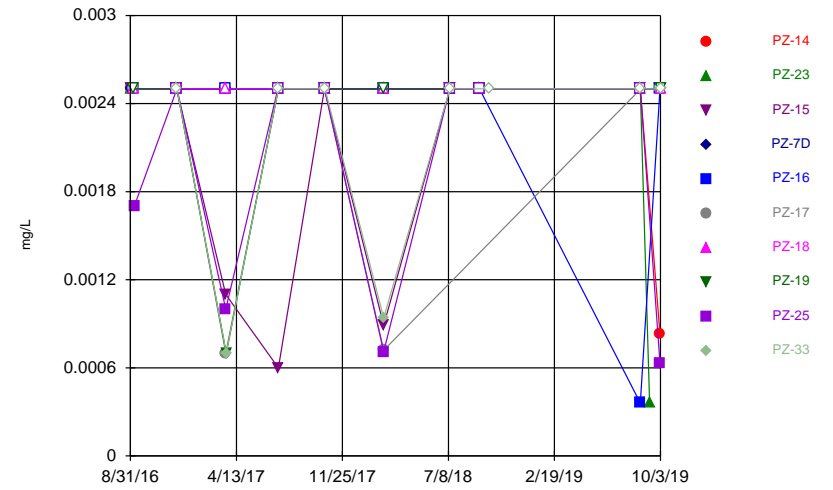
| | PZ-1D (bg) | PZ-31 (bg) | PZ-32 (bg) | PZ-2D (bg) |
|------------|------------|-------------|------------|-------------|
| 8/30/2016 | <0.001 | | | |
| 10/18/2016 | | <0.001 | <0.001 | |
| 12/6/2016 | <0.001 | <0.001 | | |
| 12/7/2016 | | | 0.0002 (X) | |
| 3/21/2017 | <0.001 | 6E-05 (X) | | |
| 3/23/2017 | | | 8E-05 (X) | |
| 7/11/2017 | <0.001 | <0.001 | 7E-05 (X) | |
| 10/17/2017 | <0.001 | <0.001 | 8E-05 (X) | |
| 2/20/2018 | <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 |
| 9/12/2018 | <0.001 | <0.001 | | <0.001 |
| 9/13/2018 | | | <0.001 | |
| 10/4/2018 | | | | <0.001 |
| 10/24/2018 | | | | 0.00016 (X) |
| 8/20/2019 | <0.001 | | <0.001 | |
| 8/21/2019 | | 6.1E-05 (X) | | <0.001 |
| 10/1/2019 | <0.001 | | <0.001 | |
| 10/2/2019 | | <0.001 | | <0.001 |

Time Series



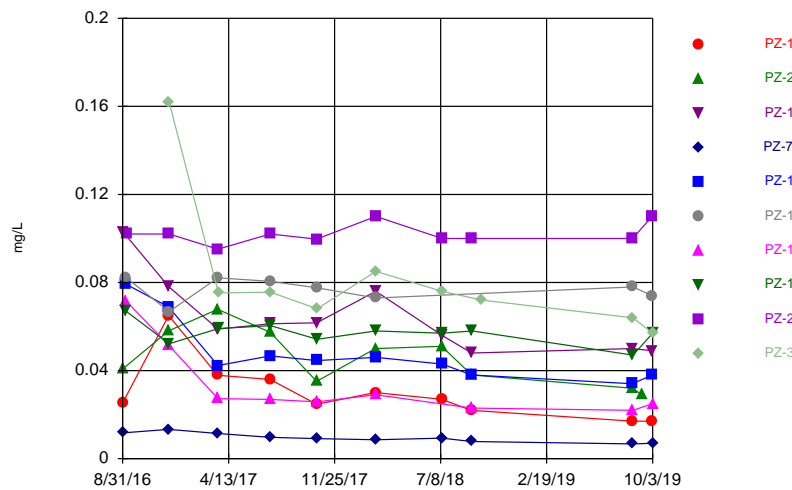
Constituent: Antimony Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



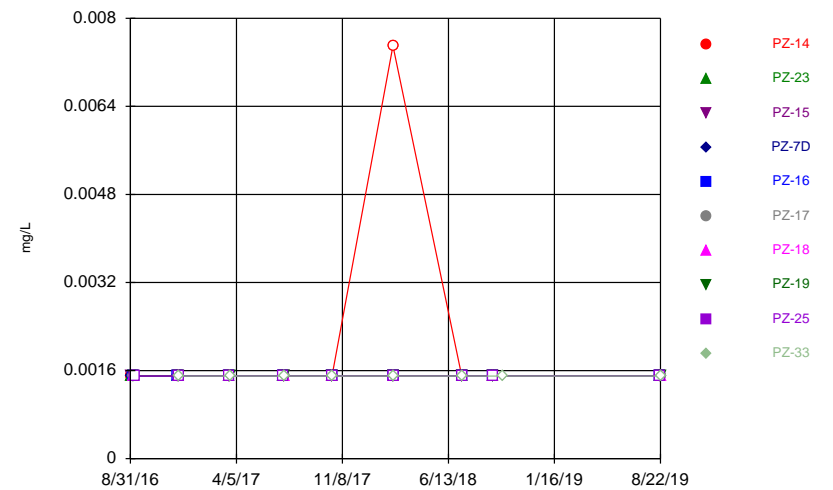
Constituent: Arsenic Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Barium Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series



Constituent: Beryllium Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-------------|-------------|-----------|-------------|--------|--------|-------------|-------------|------------|
| 8/31/2016 | <0.003 | <0.003 | | | | | | | |
| 9/1/2016 | | | 0.001 (X) | <0.003 | | | | | |
| 9/6/2016 | | | | | <0.003 | | | | |
| 9/7/2016 | | | | | | <0.003 | <0.003 | <0.003 | |
| 9/8/2016 | | | | | | | | | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | |
| 12/8/2016 | | | | | | <0.003 | <0.003 | <0.003 | <0.003 |
| 3/21/2017 | 0.0004 (X) | <0.003 | | | | | | | |
| 3/22/2017 | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 3/23/2017 | | | | | | | | <0.003 | |
| 7/11/2017 | <0.003 | <0.003 | | | <0.003 | | | | <0.003 |
| 7/12/2017 | | | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 | |
| 10/18/2017 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 | | <0.003 |
| 10/19/2017 | | | | <0.003 | | | | <0.003 | |
| 2/20/2018 | <0.003 | <0.003 | | | | | | | |
| 2/21/2018 | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 7/11/2018 | <0.003 | <0.003 | | | | | | | |
| 7/12/2018 | | | <0.003 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 9/12/2018 | <0.003 | | | | | | | | |
| 9/13/2018 | | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | | <0.003 |
| 9/14/2018 | | | | | | | | <0.003 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | 0.00039 (X) | 0.00055 (X) | <0.003 | | <0.003 | | | | 0.0014 (X) |
| 8/22/2019 | | | | <0.003 | | <0.003 | 0.00045 (X) | <0.003 | |
| 9/10/2019 | | <0.003 | | | | | | | |
| 10/2/2019 | <0.003 | | <0.003 | | <0.003 | <0.003 | | | <0.003 |
| 10/3/2019 | | | | 0.00029 (X) | | | <0.003 | 0.00044 (X) | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|--------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.003 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.003 |
| 7/11/2017 | |
| 7/12/2017 | <0.003 |
| 10/18/2017 | |
| 10/19/2017 | <0.003 |
| 2/20/2018 | |
| 2/21/2018 | <0.003 |
| 7/11/2018 | |
| 7/12/2018 | <0.003 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.003 |
| 8/21/2019 | |
| 8/22/2019 | <0.003 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.003 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-------------|-------------|-------------|--------|-------------|-------------|--------|------------|-------------|
| 8/31/2016 | <0.005 | <0.005 | | | | | | | |
| 9/1/2016 | | | <0.005 | <0.005 | | | | | |
| 9/6/2016 | | | | | <0.005 | | | | |
| 9/7/2016 | | | | | | <0.005 | <0.005 | <0.005 | |
| 9/8/2016 | | | | | | | | | 0.0017 (X) |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | | | |
| 12/8/2016 | | | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/21/2017 | <0.005 | <0.005 | | | | | | | |
| 3/22/2017 | | | 0.0011 (X) | <0.005 | <0.005 | 0.0007 (X) | <0.005 | | 0.001 (X) |
| 3/23/2017 | | | | | | | | 0.0007 (X) | |
| 7/11/2017 | <0.005 | <0.005 | | | <0.005 | | | | <0.005 |
| 7/12/2017 | | | 0.0006 (X) | <0.005 | | <0.005 | <0.005 | <0.005 | |
| 10/18/2017 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 | | <0.005 |
| 10/19/2017 | | | | <0.005 | | | | <0.005 | |
| 2/20/2018 | <0.005 | <0.005 | | | | | | | |
| 2/21/2018 | | | 0.00089 (X) | <0.005 | <0.005 | 0.00072 (X) | <0.005 | <0.005 | 0.00071 (X) |
| 7/11/2018 | <0.005 | <0.005 | | | | | | | |
| 7/12/2018 | | | <0.005 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 9/12/2018 | <0.005 | | | | | | | | |
| 9/13/2018 | | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | | <0.005 |
| 9/14/2018 | | | | | | | | <0.005 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.005 | <0.005 | <0.005 | | 0.00036 (X) | | | | <0.005 |
| 8/22/2019 | | | | <0.005 | | <0.005 | <0.005 | <0.005 | |
| 9/10/2019 | | 0.00036 (X) | | | | | | | |
| 10/2/2019 | 0.00083 (X) | | <0.005 | | <0.005 | <0.005 | | | 0.00063 (X) |
| 10/3/2019 | | | | <0.005 | | | <0.005 | <0.005 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|-------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.005 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0007 (X) |
| 7/11/2017 | |
| 7/12/2017 | <0.005 |
| 10/18/2017 | |
| 10/19/2017 | <0.005 |
| 2/20/2018 | |
| 2/21/2018 | 0.00094 (X) |
| 7/11/2018 | |
| 7/12/2018 | <0.005 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.005 |
| 8/21/2019 | |
| 8/22/2019 | <0.005 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.005 |

Time Series

Constituent: Barium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|
| 8/31/2016 | 0.0253 | 0.0407 | | | | | | | |
| 9/1/2016 | | | 0.103 | 0.0117 | | | | | |
| 9/6/2016 | | | | | 0.0794 | | | | |
| 9/7/2016 | | | | | | 0.0823 | 0.0717 | 0.067 | |
| 9/8/2016 | | | | | | | | | 0.102 |
| 12/7/2016 | 0.065 | 0.0581 | 0.0781 | 0.0133 | 0.0689 | | | | |
| 12/8/2016 | | | | | | 0.0668 | 0.0513 | 0.0522 | 0.102 |
| 3/21/2017 | 0.0379 | 0.0678 | | | | | | | |
| 3/22/2017 | | | 0.0589 | 0.0114 | 0.0423 | 0.0821 | 0.0273 | | 0.0951 |
| 3/23/2017 | | | | | | | | 0.0591 | |
| 7/11/2017 | 0.036 | 0.0574 | | | 0.0467 | | | | 0.102 |
| 7/12/2017 | | | 0.0613 | 0.0097 (X) | | 0.0805 | 0.0269 | 0.0604 | |
| 10/18/2017 | 0.0247 | 0.0351 | 0.0617 | | 0.0446 | 0.0776 | 0.0258 | | 0.0997 |
| 10/19/2017 | | | | 0.0091 (X) | | | | 0.0542 | |
| 2/20/2018 | 0.03 | 0.05 | | | | | | | |
| 2/21/2018 | | | 0.076 | 0.0086 (X) | 0.046 | 0.073 | 0.029 | 0.058 | 0.11 |
| 7/11/2018 | 0.027 | 0.051 | | | | | | | |
| 7/12/2018 | | | 0.056 | 0.0093 (X) | 0.043 | | | 0.057 | 0.1 |
| 9/12/2018 | 0.022 | | | | | | | | |
| 9/13/2018 | | 0.038 | 0.048 | 0.0078 (X) | 0.038 | | 0.023 | | 0.1 |
| 9/14/2018 | | | | | | | | 0.058 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | 0.017 | 0.032 | 0.05 | | 0.034 | | | | 0.1 |
| 8/22/2019 | | | | 0.0067 (X) | | 0.078 | 0.022 | 0.047 | |
| 9/10/2019 | | 0.029 | | | | | | | |
| 10/2/2019 | 0.017 | | 0.049 | | 0.038 | 0.074 | | | 0.11 |
| 10/3/2019 | | | | 0.007 (X) | | | 0.025 | 0.057 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|--------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | 0.162 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0753 |
| 7/11/2017 | |
| 7/12/2017 | 0.0756 |
| 10/18/2017 | |
| 10/19/2017 | 0.0681 |
| 2/20/2018 | |
| 2/21/2018 | 0.085 |
| 7/11/2018 | |
| 7/12/2018 | 0.076 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | 0.072 |
| 8/21/2019 | |
| 8/22/2019 | 0.064 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | 0.057 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

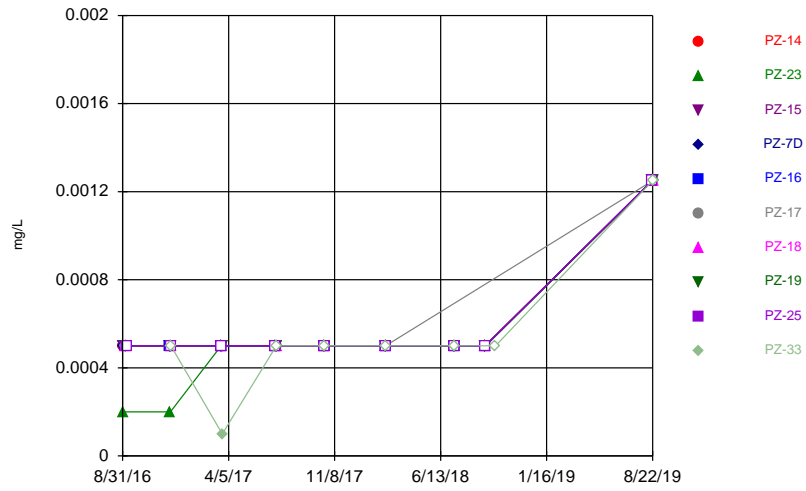
| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8/31/2016 | <0.003 | <0.003 | | | | | | | |
| 9/1/2016 | | | <0.003 | <0.003 | | | | | |
| 9/6/2016 | | | | | <0.003 | | | | |
| 9/7/2016 | | | | | | <0.003 | <0.003 | <0.003 | |
| 9/8/2016 | | | | | | | | | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | |
| 12/8/2016 | | | | | | <0.003 | <0.003 | <0.003 | <0.003 |
| 3/21/2017 | <0.003 | <0.003 | | | | | | | |
| 3/22/2017 | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 3/23/2017 | | | | | | | | <0.003 | |
| 7/11/2017 | <0.003 | <0.003 | | | <0.003 | | | | <0.003 |
| 7/12/2017 | | | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 | |
| 10/18/2017 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 | | <0.003 |
| 10/19/2017 | | | | <0.003 | | | | <0.003 | |
| 2/20/2018 | <0.015 | <0.003 | | | | | | | |
| 2/21/2018 | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 7/11/2018 | <0.003 | <0.003 | | | | | | | |
| 7/12/2018 | | | <0.003 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 9/12/2018 | <0.003 | | | | | | | | |
| 9/13/2018 | | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | | <0.003 |
| 9/14/2018 | | | | | | | | <0.003 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.003 | <0.003 | <0.003 | | <0.003 | | | | <0.003 |
| 8/22/2019 | | | | <0.003 | | <0.003 | <0.003 | <0.003 | |

Time Series

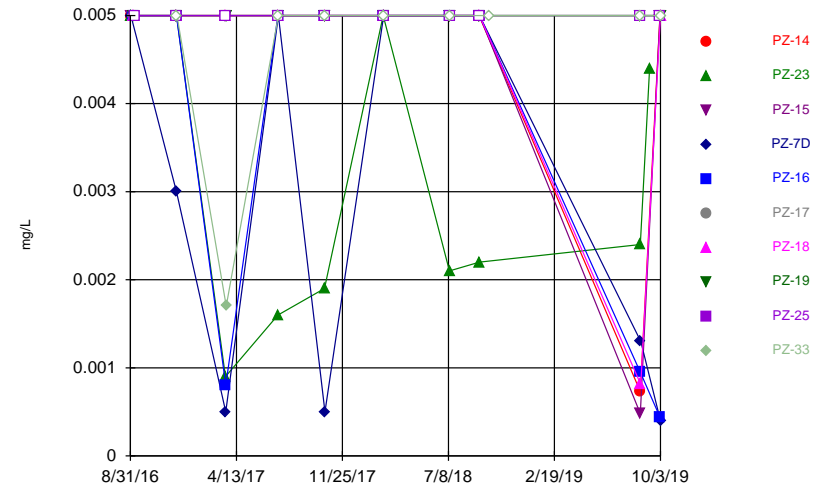
Constituent: Beryllium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|--------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.003 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.003 |
| 7/11/2017 | |
| 7/12/2017 | <0.003 |
| 10/18/2017 | |
| 10/19/2017 | <0.003 |
| 2/20/2018 | |
| 2/21/2018 | <0.003 |
| 7/11/2018 | |
| 7/12/2018 | <0.003 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.003 |
| 8/21/2019 | |
| 8/22/2019 | <0.003 |

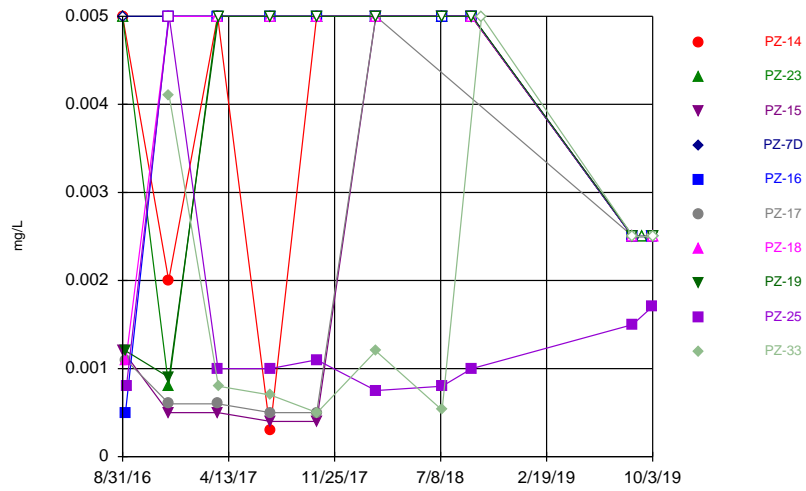
Time Series



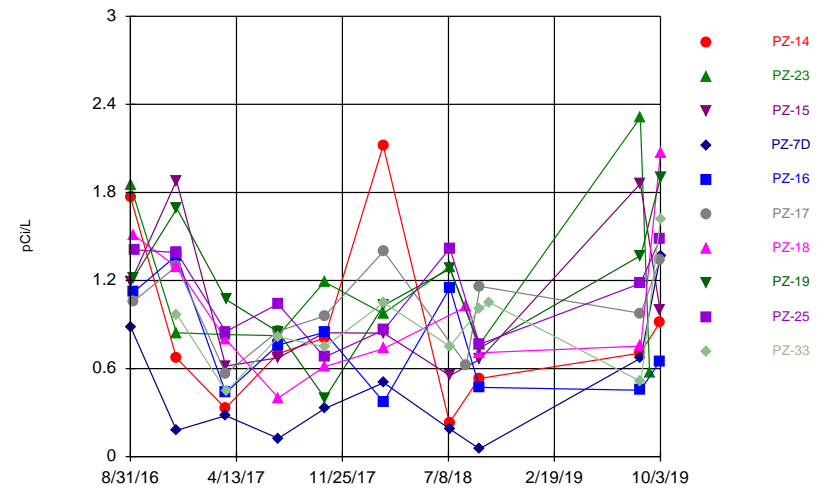
Time Series



Time Series



Time Series



Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|---------|------------|---------|---------|---------|---------|---------|---------|---------|
| 8/31/2016 | <0.001 | 0.0002 (X) | | | | | | | |
| 9/1/2016 | | | <0.001 | <0.001 | | | | | |
| 9/6/2016 | | | | | <0.001 | | | | |
| 9/7/2016 | | | | | | <0.001 | <0.001 | <0.001 | |
| 9/8/2016 | | | | | | | | | <0.001 |
| 12/7/2016 | <0.001 | 0.0002 (X) | <0.001 | <0.001 | <0.001 | | | | |
| 12/8/2016 | | | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/21/2017 | <0.001 | <0.001 | | | | | | | |
| 3/22/2017 | | | <0.001 | <0.001 | <0.001 | <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 | <0.001 | |
| 10/18/2017 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 | | <0.001 |
| 10/19/2017 | | | | <0.001 | | | | <0.001 | |
| 2/20/2018 | <0.001 | <0.001 | | | | | | | |
| 2/21/2018 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 7/11/2018 | <0.001 | <0.001 | | | | | | | |
| 7/12/2018 | | | <0.001 | <0.001 | <0.001 | | | <0.001 | <0.001 |
| 9/12/2018 | <0.001 | | | | | | | | |
| 9/13/2018 | | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | | <0.001 |
| 9/14/2018 | | | | | | | | <0.001 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 | | | | <0.0025 |
| 8/22/2019 | | | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.001 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0001 (X) |
| 7/11/2017 | |
| 7/12/2017 | <0.001 |
| 10/18/2017 | |
| 10/19/2017 | <0.001 |
| 2/20/2018 | |
| 2/21/2018 | <0.001 |
| 7/11/2018 | |
| 7/12/2018 | <0.001 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.001 |
| 8/21/2019 | |
| 8/22/2019 | <0.0025 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-------------|------------|-------------|------------|-------------|-------|-------------|-------|-------|
| 8/31/2016 | <0.01 | <0.01 | | | | | | | |
| 9/1/2016 | | | <0.01 | <0.01 | | | | | |
| 9/6/2016 | | | | | <0.01 | | | | |
| 9/7/2016 | | | | | | <0.01 | <0.01 | <0.01 | |
| 9/8/2016 | | | | | | | | | <0.01 |
| 12/7/2016 | <0.01 | <0.01 | <0.01 | 0.003 (X) | <0.01 | | | | |
| 12/8/2016 | | | | | | <0.01 | <0.01 | <0.01 | <0.01 |
| 3/21/2017 | <0.01 | 0.0009 (X) | | | | | | | |
| 3/22/2017 | | | <0.01 | 0.0005 (X) | 0.0008 (X) | <0.01 | <0.01 | | <0.01 |
| 3/23/2017 | | | | | | | | <0.01 | |
| 7/11/2017 | <0.01 | 0.0016 (X) | | | <0.01 | | | | <0.01 |
| 7/12/2017 | | | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | |
| 10/18/2017 | <0.01 | 0.0019 (X) | <0.01 | | <0.01 | <0.01 | <0.01 | | <0.01 |
| 10/19/2017 | | | | 0.0005 (X) | | | | <0.01 | |
| 2/20/2018 | <0.01 | <0.01 | | | | | | | |
| 2/21/2018 | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 7/11/2018 | <0.01 | 0.0021 (X) | | | | | | | |
| 7/12/2018 | | | <0.01 | <0.01 | <0.01 | | | <0.01 | <0.01 |
| 9/12/2018 | <0.01 | | | | | | | | |
| 9/13/2018 | | 0.0022 (X) | <0.01 | <0.01 | <0.01 | | <0.01 | | <0.01 |
| 9/14/2018 | | | | | | | | <0.01 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | 0.00073 (X) | 0.0024 (X) | 0.00048 (X) | | 0.00095 (X) | | | | <0.01 |
| 8/22/2019 | | | | 0.0013 (X) | | <0.01 | 0.00081 (X) | <0.01 | |
| 9/10/2019 | | 0.0044 (X) | | | | | | | |
| 10/2/2019 | <0.01 | | <0.01 | | 0.00044 (X) | <0.01 | | | <0.01 |
| 10/3/2019 | | | | 0.0004 (X) | | | <0.01 | <0.01 | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.01 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0017 (X) |
| 7/11/2017 | |
| 7/12/2017 | <0.01 |
| 10/18/2017 | |
| 10/19/2017 | <0.01 |
| 2/20/2018 | |
| 2/21/2018 | <0.01 |
| 7/11/2018 | |
| 7/12/2018 | <0.01 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.01 |
| 8/21/2019 | |
| 8/22/2019 | <0.01 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.01 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|------------|------------|------------|--------|------------|------------|------------|------------|-------------|
| 8/31/2016 | <0.01 | <0.01 | | | | | | | |
| 9/1/2016 | | | 0.0012 (X) | <0.01 | | | | | |
| 9/6/2016 | | | | | 0.0005 (X) | | | | |
| 9/7/2016 | | | | | | 0.0011 (X) | 0.0011 (X) | 0.0012 (X) | |
| 9/8/2016 | | | | | | | | | 0.0008 (X) |
| 12/7/2016 | 0.002 (X) | 0.0008 (X) | 0.0005 (X) | <0.01 | <0.01 | | | | |
| 12/8/2016 | | | | | | 0.0006 (X) | <0.01 | 0.0009 (X) | <0.01 |
| 3/21/2017 | <0.01 | <0.01 | | | | | | | |
| 3/22/2017 | | | 0.0005 (X) | <0.01 | <0.01 | 0.0006 (X) | <0.01 | | 0.001 (X) |
| 3/23/2017 | | | | | | | | <0.01 | |
| 7/11/2017 | 0.0003 (X) | <0.01 | | | <0.01 | | | | 0.001 (X) |
| 7/12/2017 | | | 0.0004 (X) | <0.01 | | 0.0005 (X) | <0.01 | <0.01 | |
| 10/18/2017 | <0.01 | <0.01 | 0.0004 (X) | | <0.01 | 0.0005 (X) | <0.01 | | 0.0011 (X) |
| 10/19/2017 | | | | <0.01 | | | | <0.01 | |
| 2/20/2018 | <0.01 | <0.01 | | | | | | | |
| 2/21/2018 | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.00075 (X) |
| 7/11/2018 | <0.01 | <0.01 | | | | | | | |
| 7/12/2018 | | | <0.01 | <0.01 | <0.01 | | | <0.01 | 0.0008 (X) |
| 9/12/2018 | <0.01 | | | | | | | | |
| 9/13/2018 | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | | 0.001 (X) |
| 9/14/2018 | | | | | | | | <0.01 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.005 | <0.005 | <0.005 | | <0.005 | | | | 0.0015 (X) |
| 8/22/2019 | | | | <0.005 | | <0.005 | <0.005 | <0.005 | |
| 9/10/2019 | | <0.005 | | | | | | | |
| 10/2/2019 | <0.005 | | <0.005 | | <0.005 | <0.005 | | | 0.0017 (X) |
| 10/3/2019 | | | | <0.005 | | | <0.005 | <0.005 | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| PZ-33 | |
|------------|-------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | 0.0041 (X) |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0008 (X) |
| 7/11/2017 | |
| 7/12/2017 | 0.0007 (X) |
| 10/18/2017 | |
| 10/19/2017 | 0.0005 (X) |
| 2/20/2018 | |
| 2/21/2018 | 0.0012 (X) |
| 7/11/2018 | |
| 7/12/2018 | 0.00053 (X) |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.01 |
| 8/21/2019 | |
| 8/22/2019 | <0.005 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.005 |

Time Series

Constituent: Combined Radium 226 + Radium 228 (pCi/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

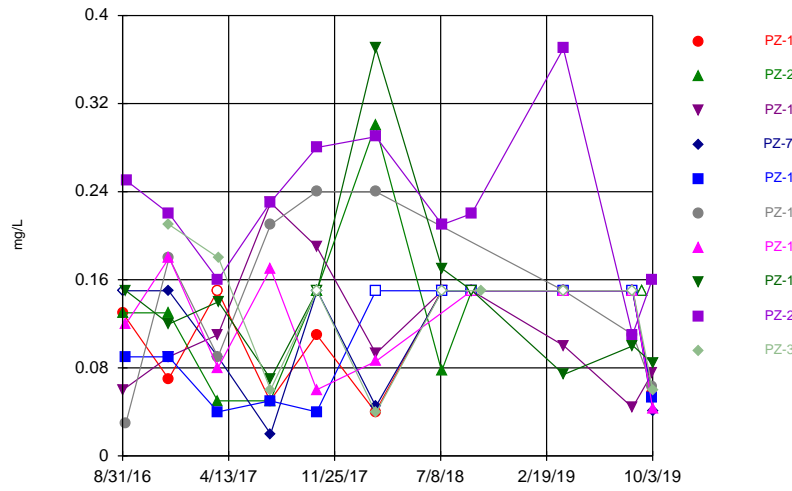
| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| 8/31/2016 | 1.77 | 1.85 | | | | | | | |
| 9/1/2016 | | | 1.19 | 0.88 | | | | | |
| 9/6/2016 | | | | | 1.12 | | | | |
| 9/7/2016 | | | | | | 1.06 | 1.51 | 1.22 | |
| 9/8/2016 | | | | | | | | | 1.41 |
| 12/7/2016 | 0.672 | 0.844 | 1.88 | 0.179 | 1.37 | | | | |
| 12/8/2016 | | | | | | 1.3 | 1.29 | 1.69 | 1.39 |
| 3/21/2017 | 0.33 | 0.832 | | | | | | | |
| 3/22/2017 | | | 0.617 | 0.279 | 0.435 | 0.566 | 0.799 | | 0.852 |
| 3/23/2017 | | | | | | | | 1.07 | |
| 7/11/2017 | 0.701 (U) | 0.824 (U) | | | 0.76 (U) | | | | 1.04 |
| 7/12/2017 | | | 0.674 (U) | 0.125 (U) | | 0.856 (U) | 0.4 (U) | 0.849 (U) | |
| 10/18/2017 | 0.808 (U) | 1.19 | 0.844 (U) | | 0.847 (U) | 0.957 | 0.613 (U) | | 0.678 (U) |
| 10/19/2017 | | | | 0.329 (U) | | | | 0.398 (U) | |
| 2/20/2018 | 2.12 | 0.975 | | | | | | | |
| 2/21/2018 | | | 0.842 | 0.504 | 0.373 | 1.4 | 0.736 | 1.03 | 0.863 |
| 7/11/2018 | 0.232 (U) | 1.29 | | | | | | | |
| 7/12/2018 | | | 0.552 (U) | 0.188 (U) | 1.15 (U) | | | 1.28 (U) | 1.42 |
| 8/15/2018 | | | | | | | 1.02 (U) | | |
| 8/16/2018 | | | | | | 0.625 (U) | | | |
| 9/12/2018 | 0.532 (U) | | | | | | | | |
| 9/13/2018 | | 0.765 (U) | 0.662 (U) | 0.0542 (U) | 0.472 (U) | | 0.708 (U) | | 0.766 (U) |
| 9/14/2018 | | | | | | 1.16 | | 0.74 (U) | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | 0.705 (U) | 2.31 | 1.86 | | 0.453 (U) | | | | 1.18 (U) |
| 8/22/2019 | | | | 0.672 (U) | | 0.977 (U) | 0.753 (U) | 1.37 | |
| 9/10/2019 | | 0.575 (U) | | | | | | | |
| 10/2/2019 | 0.915 (U) | | 1 (U) | | 0.65 (U) | 1.34 (U) | | | 1.48 |
| 10/3/2019 | | | | 1.37 | | | 2.07 | 1.9 | |

Time Series

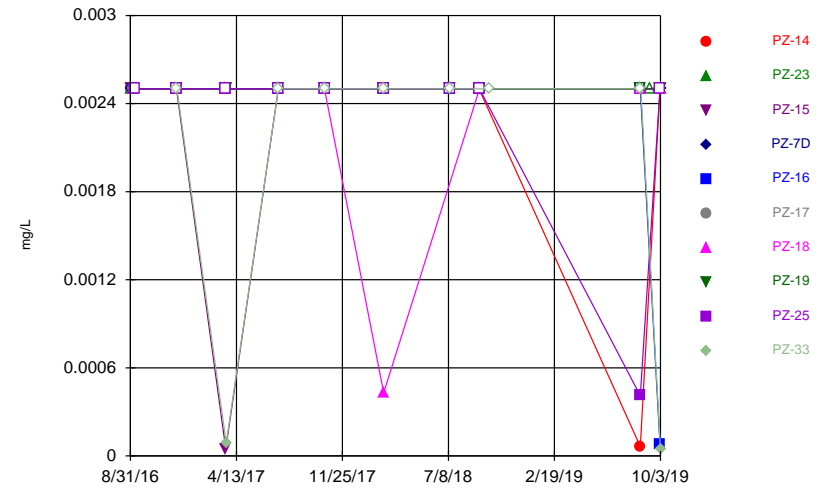
Constituent: Combined Radium 226 + Radium 228 (pCi/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|-----------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | 0.968 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.444 |
| 7/11/2017 | |
| 7/12/2017 | 0.814 (U) |
| 10/18/2017 | |
| 10/19/2017 | 0.748 (U) |
| 2/20/2018 | |
| 2/21/2018 | 1.05 |
| 7/11/2018 | |
| 7/12/2018 | 0.751 (U) |
| 8/15/2018 | |
| 8/16/2018 | |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | 1.01 (U) |
| 10/4/2018 | 1.05 |
| 8/21/2019 | |
| 8/22/2019 | 0.513 (U) |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | 1.62 (U) |

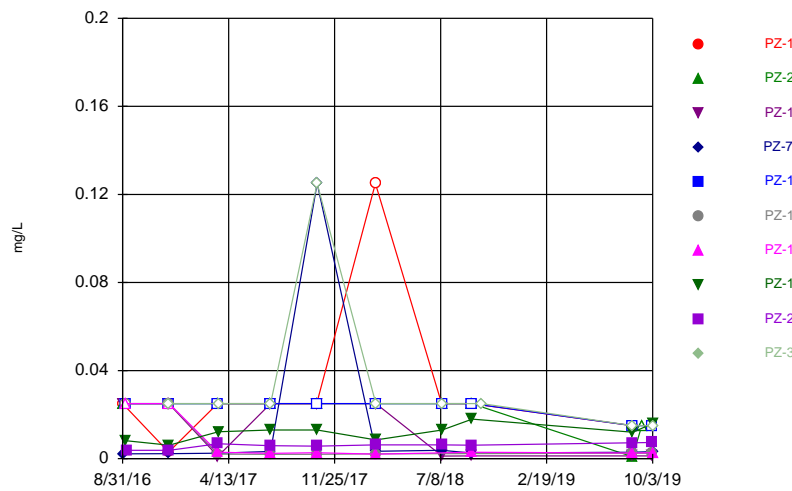
Time Series



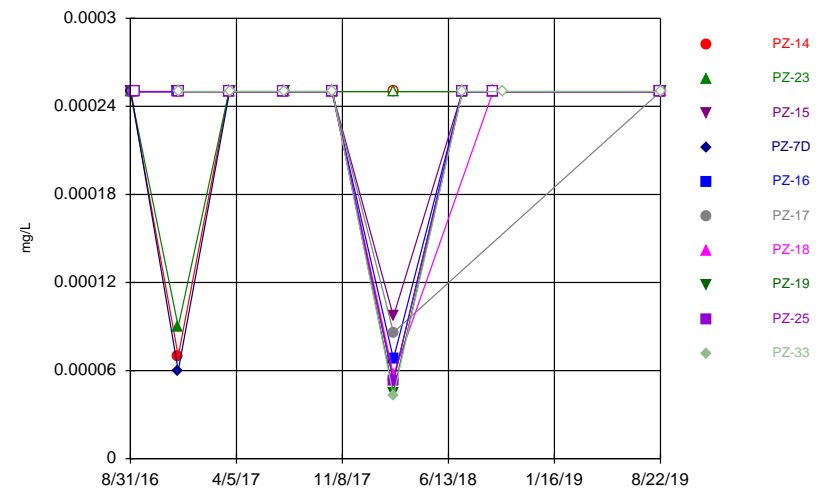
Time Series



Time Series



Time Series



Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| 8/31/2016 | 0.13 (X) | 0.13 (X) | | | | | | | |
| 9/1/2016 | | | 0.06 (X) | <0.3 | | | | | |
| 9/6/2016 | | | | | 0.09 (X) | | | | |
| 9/7/2016 | | | | | | 0.03 (X) | 0.12 (X) | 0.15 (X) | |
| 9/8/2016 | | | | | | | | | 0.25 (X) |
| 12/7/2016 | 0.07 (X) | 0.13 (X) | 0.09 (X) | 0.15 (X) | 0.09 (X) | | | | |
| 12/8/2016 | | | | | | 0.18 (X) | 0.18 (X) | 0.12 (X) | 0.22 (X) |
| 3/21/2017 | <0.3 | 0.05 (X) | | | | | | | |
| 3/22/2017 | | | 0.11 (X) | 0.09 (X) | 0.04 (X) | 0.09 (X) | 0.08 (X) | | 0.16 (X) |
| 3/23/2017 | | | | | | | | 0.14 (X) | |
| 7/11/2017 | 0.05 (X) | 0.05 (X) | | | 0.05 (X) | | | | 0.23 (X) |
| 7/12/2017 | | | 0.23 (X) | 0.02 (X) | | 0.21 (X) | 0.17 (X) | 0.07 (X) | |
| 10/18/2017 | 0.11 (X) | <0.3 | 0.19 (X) | | 0.04 (X) | 0.24 (X) | 0.06 (X) | | 0.28 (X) |
| 10/19/2017 | | | | <0.3 | | | | <0.3 | |
| 2/20/2018 | 0.04 (X) | 0.3 (X) | | | | | | | |
| 2/21/2018 | | | 0.093 (X) | 0.045 (X) | <0.3 | 0.24 (X) | 0.086 (X) | 0.37 | 0.29 (X) |
| 7/11/2018 | <0.3 | 0.077 (X) | | | | | | | |
| 7/12/2018 | | | <0.3 | <0.3 | <0.3 | | | 0.17 (X) | 0.21 (X) |
| 9/12/2018 | <0.3 | | | | | | | | |
| 9/13/2018 | | <0.3 | 0.15 (X) | <0.3 | <0.3 | | <0.3 | | 0.22 (X) |
| 9/14/2018 | | | | | | | | <0.3 | |
| 10/4/2018 | | | | | | | | | |
| 3/27/2019 | <0.3 | <0.3 | | | <0.3 | | <0.3 | | 0.37 |
| 3/28/2019 | | | 0.1 (X) | <0.3 | | 0.15 (X) | | 0.074 (X) | |
| 8/21/2019 | <0.3 | <0.3 | 0.044 (X) | | <0.3 | | | | 0.11 (X) |
| 8/22/2019 | | | | <0.3 | | 0.11 (X) | <0.3 | 0.1 (X) | |
| 9/10/2019 | | <0.3 | | | | | | | |
| 10/2/2019 | 0.056 (X) | | 0.075 (X) | | 0.053 (X) | 0.063 (X) | | | 0.16 (X) |
| 10/3/2019 | | | | 0.041 (X) | | | 0.043 (X) | 0.084 (X) | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|-----------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | 0.21 (X) |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.18 (X) |
| 7/11/2017 | |
| 7/12/2017 | 0.06 (X) |
| 10/18/2017 | |
| 10/19/2017 | <0.3 |
| 2/20/2018 | |
| 2/21/2018 | 0.039 (X) |
| 7/11/2018 | |
| 7/12/2018 | <0.3 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | 0.15 (X) |
| 3/27/2019 | |
| 3/28/2019 | <0.3 |
| 8/21/2019 | |
| 8/22/2019 | <0.3 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | 0.06 (X) |

Time Series

Constituent: Lead (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-------------|--------|-----------|--------|-------------|--------|-------------|--------|-------------|
| 8/31/2016 | <0.005 | <0.005 | | | | | | | |
| 9/1/2016 | | | <0.005 | <0.005 | | | | | |
| 9/6/2016 | | | | | <0.005 | | | | |
| 9/7/2016 | | | | | | <0.005 | <0.005 | <0.005 | |
| 9/8/2016 | | | | | | | | | <0.005 |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | | | |
| 12/8/2016 | | | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/21/2017 | <0.005 | <0.005 | | | | | | | |
| 3/22/2017 | | | 5E-05 (X) | <0.005 | <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 | <0.005 | |
| 10/18/2017 | <0.005 | <0.005 | <0.005 | | <0.005 | <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 | <0.005 | 0.00043 (X) | <0.005 | <0.005 |
| 7/11/2018 | <0.005 | <0.005 | | | | | | | |
| 7/12/2018 | | | <0.005 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 9/12/2018 | <0.005 | | | | | | | | |
| 9/13/2018 | | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | | <0.005 |
| 9/14/2018 | | | | | | | | <0.005 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | 6.4E-05 (X) | <0.005 | <0.005 | | <0.005 | | | | 0.00041 (X) |
| 8/22/2019 | | | | <0.005 | | <0.005 | <0.005 | <0.005 | |
| 9/10/2019 | | <0.005 | | | | | | | |
| 10/2/2019 | <0.005 | | <0.005 | | 8.1E-05 (X) | <0.005 | | | <0.005 |
| 10/3/2019 | | | | <0.005 | | | <0.005 | <0.005 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|-------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.005 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 9E-05 (X) |
| 7/11/2017 | |
| 7/12/2017 | <0.005 |
| 10/18/2017 | |
| 10/19/2017 | <0.005 |
| 2/20/2018 | |
| 2/21/2018 | <0.005 |
| 7/11/2018 | |
| 7/12/2018 | <0.005 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.005 |
| 8/21/2019 | |
| 8/22/2019 | <0.005 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | 4.7E-05 (X) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-----------|------------|------------|------------|-------|------------|------------|------------|------------|
| 8/31/2016 | <0.05 | <0.05 | | | | | | | |
| 9/1/2016 | | | <0.05 | 0.0022 (X) | | | | | |
| 9/6/2016 | | | | | <0.05 | | | | |
| 9/7/2016 | | | | | | <0.05 | <0.05 | 0.0082 (X) | |
| 9/8/2016 | | | | | | | | | 0.0038 (X) |
| 12/7/2016 | 0.003 (X) | <0.05 | <0.05 | 0.0023 (X) | <0.05 | | | | |
| 12/8/2016 | | | | | | <0.05 | <0.05 | 0.0061 (X) | 0.0038 (X) |
| 3/21/2017 | <0.05 | <0.05 | | | | | | | |
| 3/22/2017 | | | 0.0011 (X) | 0.0025 (X) | <0.05 | 0.0021 (X) | 0.0029 (X) | | 0.0068 (X) |
| 3/23/2017 | | | | | | | | 0.0122 (X) | |
| 7/11/2017 | <0.05 | <0.05 | | | <0.05 | | | | 0.0059 (X) |
| 7/12/2017 | | | <0.05 | 0.0033 (X) | | 0.002 (X) | 0.0024 (X) | 0.013 (X) | |
| 10/18/2017 | <0.05 | <0.05 | <0.05 | | <0.05 | 0.002 (X) | 0.0027 (X) | | 0.0057 (X) |
| 10/19/2017 | | | | <0.25 | | | | 0.013 (X) | |
| 2/20/2018 | <0.25 | <0.05 | | | | | | | |
| 2/21/2018 | | | <0.05 | 0.0034 (X) | <0.05 | 0.0022 (X) | 0.0021 (X) | 0.0085 (X) | 0.0063 (X) |
| 7/11/2018 | <0.05 | <0.05 | | | | | | | |
| 7/12/2018 | | | 0.0012 (X) | 0.0038 (X) | <0.05 | | | 0.013 (X) | 0.0063 (X) |
| 9/12/2018 | <0.05 | | | | | | | | |
| 9/13/2018 | | <0.05 | 0.0013 (X) | 0.0026 (X) | <0.05 | | 0.0029 (X) | | 0.0061 (X) |
| 9/14/2018 | | | | | | | | 0.018 (X) | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.03 | 0.0009 (X) | 0.0013 (X) | | <0.03 | | | | 0.0072 (X) |
| 8/22/2019 | | | | 0.0029 (X) | | 0.0025 (X) | 0.0026 (X) | 0.012 (X) | |
| 9/10/2019 | | <0.03 | | | | | | | |
| 10/2/2019 | <0.03 | | 0.0013 (X) | | <0.03 | 0.0024 (X) | | | 0.0074 (X) |
| 10/3/2019 | | | | 0.0032 (X) | | | 0.0027 (X) | 0.016 (X) | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|-------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.05 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.05 |
| 7/11/2017 | |
| 7/12/2017 | <0.05 |
| 10/18/2017 | |
| 10/19/2017 | <0.25 |
| 2/20/2018 | |
| 2/21/2018 | <0.05 |
| 7/11/2018 | |
| 7/12/2018 | <0.05 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.05 |
| 8/21/2019 | |
| 8/22/2019 | <0.03 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.03 |

Time Series

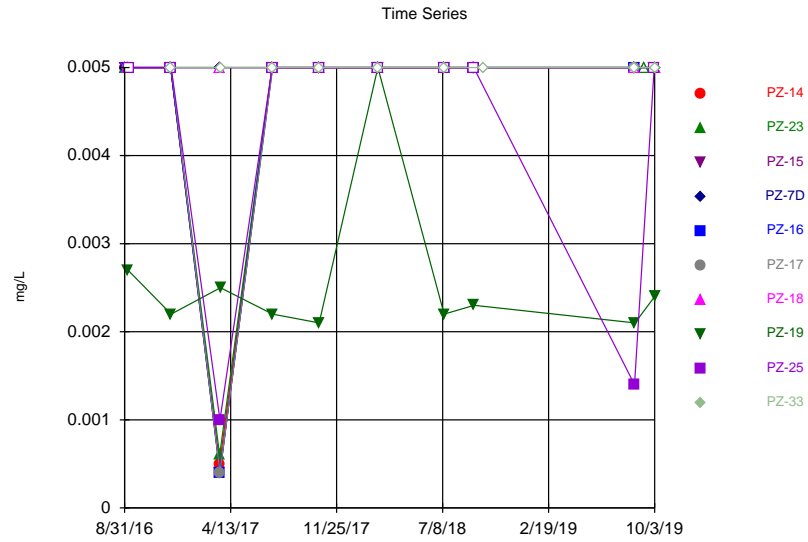
Constituent: Mercury (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 8/31/2016 | <0.0005 | <0.0005 | | | | | | | |
| 9/1/2016 | | | <0.0005 | <0.0005 | | | | | |
| 9/6/2016 | | | | | <0.0005 | | | | |
| 9/7/2016 | | | | | | <0.0005 | <0.0005 | <0.0005 | |
| 9/8/2016 | | | | | | | | | <0.0005 |
| 12/7/2016 | 7E-05 (X) | 9E-05 (X) | <0.0005 | 6E-05 (X) | <0.0005 | | | | |
| 12/8/2016 | | | | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 3/21/2017 | <0.0005 | <0.0005 | | | | | | | |
| 3/22/2017 | | | <0.0005 | <0.0005 | <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 | <0.0005 | |
| 10/18/2017 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | | <0.0005 |
| 10/19/2017 | | | | <0.0005 | | | | <0.0005 | |
| 2/20/2018 | <0.0005 | <0.0005 | | | | | | | |
| 2/21/2018 | | | 9.7E-05 (X) | 5.3E-05 (X) | 6.8E-05 (X) | 8.6E-05 (X) | 5.7E-05 (X) | 4.5E-05 (X) | 5.3E-05 (X) |
| 7/11/2018 | <0.0005 | <0.0005 | | | | | | | |
| 7/12/2018 | | | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 | <0.0005 |
| 9/12/2018 | <0.0005 | | | | | | | | |
| 9/13/2018 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | | <0.0005 |
| 9/14/2018 | | | | | | | | <0.0005 | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | | | | <0.0005 |
| 8/22/2019 | | | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 | |

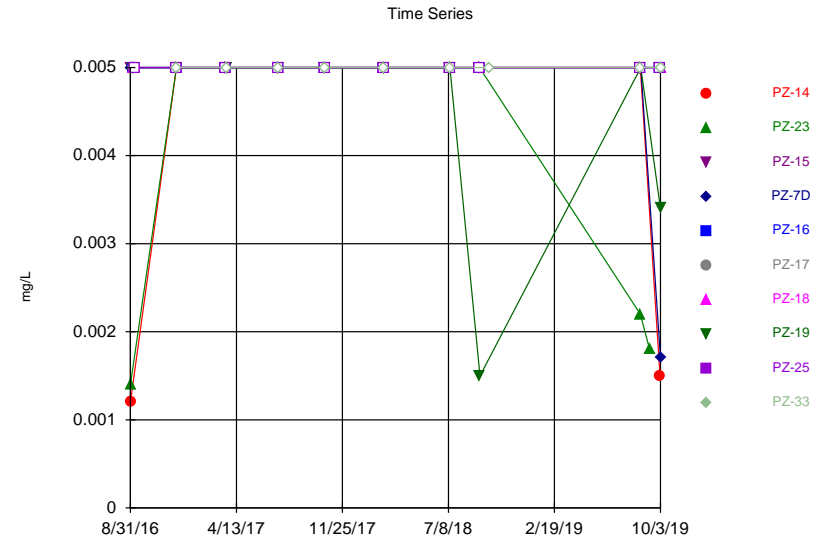
Time Series

Constituent: Mercury (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

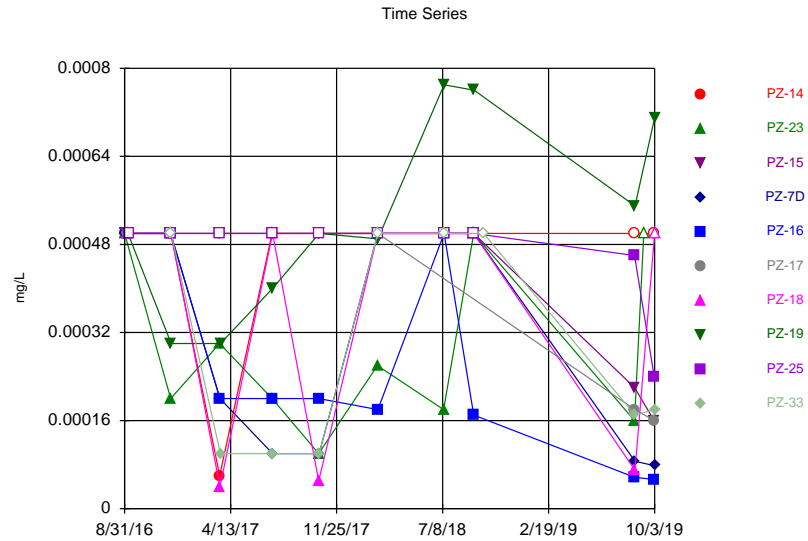
| | PZ-33 |
|------------|-------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.0005 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.0005 |
| 7/11/2017 | |
| 7/12/2017 | <0.0005 |
| 10/18/2017 | |
| 10/19/2017 | <0.0005 |
| 2/20/2018 | |
| 2/21/2018 | 4.3E-05 (X) |
| 7/11/2018 | |
| 7/12/2018 | <0.0005 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.0005 |
| 8/21/2019 | |
| 8/22/2019 | <0.0005 |



Constituent: Molybdenum Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Selenium Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4



Constituent: Thallium Analysis Run 2/24/2020 3:10 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|------------|------------|------------|-------|------------|------------|-------|------------|------------|
| 8/31/2016 | <0.01 | <0.01 | | | | | | | |
| 9/1/2016 | | | <0.01 | <0.01 | | | | | |
| 9/6/2016 | | | | | <0.01 | | | | |
| 9/7/2016 | | | | | | <0.01 | <0.01 | 0.0027 (X) | |
| 9/8/2016 | | | | | | | | | <0.01 |
| 12/7/2016 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | | |
| 12/8/2016 | | | | | | <0.01 | <0.01 | 0.0022 (X) | <0.01 |
| 3/21/2017 | 0.0005 (X) | 0.0006 (X) | | | | | | | |
| 3/22/2017 | | | 0.0004 (X) | <0.01 | 0.0004 (X) | 0.0004 (X) | <0.01 | | 0.001 (X) |
| 3/23/2017 | | | | | | | | 0.0025 (X) | |
| 7/11/2017 | <0.01 | <0.01 | | | <0.01 | | | | <0.01 |
| 7/12/2017 | | | <0.01 | <0.01 | | <0.01 | <0.01 | 0.0022 (X) | |
| 10/18/2017 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | | <0.01 |
| 10/19/2017 | | | | <0.01 | | | | 0.0021 (X) | |
| 2/20/2018 | <0.01 | <0.01 | | | | | | | |
| 2/21/2018 | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 7/11/2018 | <0.01 | <0.01 | | | | | | | |
| 7/12/2018 | | | <0.01 | <0.01 | <0.01 | | | 0.0022 (X) | <0.01 |
| 9/12/2018 | <0.01 | | | | | | | | |
| 9/13/2018 | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | | <0.01 |
| 9/14/2018 | | | | | | | | 0.0023 (X) | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.01 | <0.01 | <0.01 | | <0.01 | | | | 0.0014 (X) |
| 8/22/2019 | | | | <0.01 | | <0.01 | <0.01 | 0.0021 (X) | |
| 9/10/2019 | | <0.01 | | | | | | | |
| 10/2/2019 | <0.01 | | <0.01 | | <0.01 | <0.01 | | | <0.01 |
| 10/3/2019 | | | | <0.01 | | | <0.01 | 0.0024 (X) | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|-------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.01 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.01 |
| 7/11/2017 | |
| 7/12/2017 | <0.01 |
| 10/18/2017 | |
| 10/19/2017 | <0.01 |
| 2/20/2018 | |
| 2/21/2018 | <0.01 |
| 7/11/2018 | |
| 7/12/2018 | <0.01 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.01 |
| 8/21/2019 | |
| 8/22/2019 | <0.01 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.01 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
 Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|------------|------------|-------|------------|-------|-------|-------|------------|-------|
| 8/31/2016 | 0.0012 (X) | 0.0014 (X) | | | | | | | |
| 9/1/2016 | | | <0.01 | <0.01 | | | | | |
| 9/6/2016 | | | | | <0.01 | | | | |
| 9/7/2016 | | | | | | <0.01 | <0.01 | <0.01 | |
| 9/8/2016 | | | | | | | | | <0.01 |
| 12/7/2016 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | | |
| 12/8/2016 | | | | | | <0.01 | <0.01 | <0.01 | <0.01 |
| 3/21/2017 | <0.01 | <0.01 | | | | | | | |
| 3/22/2017 | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 |
| 3/23/2017 | | | | | | | | <0.01 | |
| 7/11/2017 | <0.01 | <0.01 | | | <0.01 | | | | <0.01 |
| 7/12/2017 | | | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | |
| 10/18/2017 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | | <0.01 |
| 10/19/2017 | | | | <0.01 | | | | <0.01 | |
| 2/20/2018 | <0.01 | <0.01 | | | | | | | |
| 2/21/2018 | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 7/11/2018 | <0.01 | <0.01 | | | | | | | |
| 7/12/2018 | | | <0.01 | <0.01 | <0.01 | | | <0.01 | <0.01 |
| 9/12/2018 | <0.01 | | | | | | | | |
| 9/13/2018 | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | | <0.01 |
| 9/14/2018 | | | | | | | | 0.0015 (X) | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.01 | 0.0022 (X) | <0.01 | | <0.01 | | | | <0.01 |
| 8/22/2019 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | |
| 9/10/2019 | | 0.0018 (X) | | | | | | | |
| 10/2/2019 | 0.0015 (X) | | <0.01 | | <0.01 | <0.01 | | | <0.01 |
| 10/3/2019 | | | | 0.0017 (X) | | | <0.01 | 0.0034 (X) | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

PZ-33

| | |
|------------|-------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.01 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | <0.01 |
| 7/11/2017 | |
| 7/12/2017 | <0.01 |
| 10/18/2017 | |
| 10/19/2017 | <0.01 |
| 2/20/2018 | |
| 2/21/2018 | <0.01 |
| 7/11/2018 | |
| 7/12/2018 | <0.01 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.01 |
| 8/21/2019 | |
| 8/22/2019 | <0.01 |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | <0.01 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient

Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-14 | PZ-23 | PZ-15 | PZ-7D | PZ-16 | PZ-17 | PZ-18 | PZ-19 | PZ-25 |
|------------|-----------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|
| 8/31/2016 | <0.001 | <0.001 | | | | | | | |
| 9/1/2016 | | | <0.001 | <0.001 | | | | | |
| 9/6/2016 | | | | | <0.001 | | | | |
| 9/7/2016 | | | | | | <0.001 | <0.001 | <0.001 | |
| 9/8/2016 | | | | | | | | | <0.001 |
| 12/7/2016 | <0.001 | 0.0002 (X) | <0.001 | <0.001 | <0.001 | | | | |
| 12/8/2016 | | | | | | <0.001 | <0.001 | 0.0003 (X) | <0.001 |
| 3/21/2017 | 6E-05 (X) | 0.0003 (X) | | | | | | | |
| 3/22/2017 | | | <0.001 | 0.0002 (X) | 0.0002 (X) | <0.001 | 4E-05 (X) | | <0.001 |
| 3/23/2017 | | | | | | | | 0.0003 (X) | |
| 7/11/2017 | <0.001 | 0.0002 (X) | | | 0.0002 (X) | | | | <0.001 |
| 7/12/2017 | | | <0.001 | 0.0001 (X) | | <0.001 | <0.001 | 0.0004 (X) | |
| 10/18/2017 | <0.001 | 0.0001 (X) | <0.001 | | 0.0002 (X) | <0.001 | 5E-05 (X) | | <0.001 |
| 10/19/2017 | | | | 0.0001 (X) | | | | 0.0005 (X) | |
| 2/20/2018 | <0.001 | 0.00026 (X) | | | | | | | |
| 2/21/2018 | | | <0.001 | <0.001 | 0.00018 (X) | <0.001 | <0.001 | 0.00049 (X) | <0.001 |
| 7/11/2018 | <0.001 | 0.00018 (X) | | | | | | | |
| 7/12/2018 | | | <0.001 | <0.001 | <0.001 | | | 0.00077 (X) | <0.001 |
| 9/12/2018 | <0.001 | | | | | | | | |
| 9/13/2018 | | <0.001 | <0.001 | <0.001 | 0.00017 (X) | | <0.001 | | <0.001 |
| 9/14/2018 | | | | | | | | 0.00076 (X) | |
| 10/4/2018 | | | | | | | | | |
| 8/21/2019 | <0.001 | 0.00016 (X) | 0.00022 (X) | | 5.7E-05 (X) | | | | 0.00046 (X) |
| 8/22/2019 | | | | 8.6E-05 (X) | | 0.00018 (X) | 7E-05 (X) | 0.00055 (X) | |
| 9/10/2019 | | <0.001 | | | | | | | |
| 10/2/2019 | <0.001 | | 0.00016 (X) | | 5.3E-05 (X) | 0.00016 (X) | | | 0.00024 (X) |
| 10/3/2019 | | | | 7.8E-05 (X) | | | <0.001 | 0.00071 (X) | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/24/2020 3:13 PM View: App IV downgradient
Plant Mitchell Client: Southern Company Data: Mitchell_mod V4

| | PZ-33 |
|------------|-------------|
| 8/31/2016 | |
| 9/1/2016 | |
| 9/6/2016 | |
| 9/7/2016 | |
| 9/8/2016 | |
| 12/7/2016 | |
| 12/8/2016 | <0.001 |
| 3/21/2017 | |
| 3/22/2017 | |
| 3/23/2017 | 0.0001 (X) |
| 7/11/2017 | |
| 7/12/2017 | 0.0001 (X) |
| 10/18/2017 | |
| 10/19/2017 | 0.0001 (X) |
| 2/20/2018 | |
| 2/21/2018 | <0.001 |
| 7/11/2018 | |
| 7/12/2018 | <0.001 |
| 9/12/2018 | |
| 9/13/2018 | |
| 9/14/2018 | |
| 10/4/2018 | <0.001 |
| 8/21/2019 | |
| 8/22/2019 | 0.00017 (X) |
| 9/10/2019 | |
| 10/2/2019 | |
| 10/3/2019 | 0.00018 (X) |