



REMEDY SELECTION PROGRESS REPORT

EPA CCR RULE COMPLIANCE

DOMINION ENERGY SOUTH CAROLINA: Wateree Station: Ash Pond

December 2019

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1.0 INTRODUCTION

This document presents an update on the progress of selecting a remedy to address arsenic and lithium in groundwater in the vicinity of the Ash Pond at the Dominion Energy South Carolina (DESC) Wateree Generating Station in Wateree, Richland County, South Carolina (**Figure 1**) in accordance with 40 CFR Part 257.97 of the EPA Coal Combustion Residuals (CCR) Rule. The Ash Pond is a coal combustion residuals (CCR) handling facility as defined by the US Environmental Protection Agency (EPA) CCR Rule (40 CFR Part 257.93). Based on the results of a Release Characterization conducted at the Ash Pond, a *Release Characterization and Assessment of Corrective Measures* (ACM) report for the Ash Pond completed in June 2019 presents evaluations of the following alternatives for addressing arsenic and lithium in groundwater in the area of the Ash Pond:

- 1) Institutional Controls
- 2) Monitored Natural Attenuation (MNA)
- 3) Pump and Treat (Groundwater Extraction and Above-Ground Treatment)
- 4) In-Situ Chemical Reduction (ISCR)

Site studies indicate that the arsenic and lithium plumes in groundwater are in a state of dynamic equilibrium or decreasing in extent. Moreover, removal of the source material (coal ash and underlying 2 feet of soil) from the Ash Pond was completed in September 2019. Based on the evaluations of potential remedies presented in the ACM report, MNA appears to be potentially well suited as a remedy to reduce the concentrations of arsenic and lithium in groundwater to below the respective groundwater protection standards (GPSs). However, additional field and laboratory evaluations are necessary to confirm that MNA processes in the surficial aquifer are adequate to serve as a remedy for groundwater impact at the site.

The following sections present the components of the Remedy Selection Progress Report.



2.0 SOURCE REMOVAL

A Closure Plan for the Ash Pond was submitted to the South Carolina Department of Health and Environmental Control (DHEC) in January 2013 and approved in February 2013. The Closure Plan included provisions for removing the coal ash and the underlying 2 feet of soil via excavation and subsequently backfilling the pond with clean fill. Coal ash and soil removal operations were completed on September 11, 2019. From the period of 2012 through June 2016, coal ash was removed from the Ash Pond for recycling, and from July 2016 to September 11, 2019 coal ash removal was conducted as part of pond closure operations and was placed in the on-site Class 3, lined landfill for disposal. Approximately 2,150,000 cubic yards of coal ash was excavated and removed from the pond as of completion the pond closure construction activities on September 11, 2019, along with approximately 412,000 cubic yards of underlying soil (which were also disposed in the on-site landfill).

3.0 RESULTS OF ASSESSMENT MONITORING: AUGUST 2019

3.1 Groundwater Monitoring Well System

Seventeen groundwater monitoring wells comprise the EPA CCR Rule compliance monitoring well system for the Ash Pond. Twelve of the wells are completed as shallow Type II monitoring wells to monitor groundwater quality in the shallow surficial aquifer and five of the wells are completed as deeper, double-cased Type III monitoring wells to monitor groundwater quality in deeper zones of the surficial aquifer. A site location map is presented as **Figure 1** and a site map showing the locations and designations of the monitoring wells at Wateree Station is presented as **Figure 2**. Summaries of the monitoring well construction data, including completion depth, construction specifications, ground surface elevations, top of casing elevations, and top and bottom of well screen elevations are presented in **Table 1**.

3.2 Horizontal and Vertical Groundwater Flow

Groundwater elevation data derived from groundwater gauging conducted in August 2019 are presented in **Table 2**. A groundwater elevation contour map developed based on groundwater level gauging data measured in the site Type II EPA Rule compliance monitoring wells in August 2019 is presented as **Figure 3**. The groundwater contours depicted in **Figure 3** represent bulk groundwater flow in the surficial aquifer across the site. The geometric configuration of the potentiometric contours in **Figure 3** indicates that bulk groundwater flow in the surficial aquifer beneath the area of the Ash Pond is generally to the east and southeast toward the Wateree River. The hydraulic gradient of the water table beneath the Ash Pond ranges from approximately 0.009 ft./ft. to 0.003 ft./ft. from north to south across the area of the pond.

The average interstitial groundwater flow velocity (v_w) can be expressed according the relation $v_w = Ki/\eta$, where i is the hydraulic gradient, and η is the effective porosity of the aquifer material. Estimates of the horizontal interstitial groundwater flow velocity in the surficial aquifer were calculated as part of the Release Assessment based on hydraulic conductivity values derived from slug tests conducted in the groundwater monitoring wells in the area of the Ash Pond, groundwater elevation data from groundwater gauging conducted in March 2019, and estimates of effective porosity derived from the textural properties of the soils encountered during drilling of the monitoring wells, as well as grain size distribution analyses of selected samples of sediment collected from the



surficial aquifer during a hydrogeologic characterization conducted by others in 2006. The calculated geometric mean horizontal interstitial groundwater flow velocity was 0.18 ft./day (65.75 ft./yr.) for the surficial aquifer in the area of the Ash Pond.

Vertical potentiometric gradients denote the potential for groundwater to move vertically through an aquifer. Vertical gradients are calculated by dividing the difference in groundwater elevation between two adjacent monitoring wells with screens installed at different elevations in the saturated interval of interest by the vertical distance between the midpoints of the saturated interval of the well screens. Positive values denote downward vertical gradients whereas negative values denote upward vertical gradients.

The results of the vertical potentiometric gradient analysis indicate that downward vertical gradients were measured at monitoring well pairs MW-AP-03/03D, MW-AP-MW-AP-09/09D, and MW-AP-11/11D in August 2019 ranging in magnitude from 1.04×10^{-2} ft./ft. (MW-AP-09/09D) to 1.85×10^{-1} ft./ft. (MW-AP-03/03D). Upward gradients were measured at monitoring well pairs MW-AP-03D/03D2 and MW-AP-11D/11D2, at values of -1.67×10^{-1} ft./ft. (MW-AP-03D/03D2) and -1.99×10^{-1} ft./ft. (MW-AP-11/11D2). Inasmuch as downward hydraulic gradients were measured between monitoring wells MW-AP-03/03D and MW-AP-11/11D, and upward hydraulic gradients were measured at monitoring well pairs MW-AP-03D/03D2 and MW-AP-11D/11D2, a transition to an upward hydraulic gradient within the deeper surficial aquifer is evident from the data at well locations in close proximity to the Wateree River. As groundwater flow approaches a major discharge zone such as a river (e.g., the Wateree River), vertical potentiometric gradients typically become upward as groundwater flows to the discharge feature. The upward vertical potentiometric gradients measured at the deeper monitoring well pairs located hydraulically down gradient of the Ash Pond are consistent with this scenario.

3.2 Groundwater Sampling

In accordance with 40 CFR Part 257.95, the fourth round of Assessment Monitoring was conducted on August 27 and 28, 2019 and included groundwater sampling from all EPA CCR Rule compliance monitoring wells associated with the Ash Pond (see **Table 1** and **Figure 2**). One groundwater sample was collected from each of the monitoring wells during the Assessment Monitoring event. All groundwater samples collected from the monitoring wells for Assessment Monitoring in August 2019 were analyzed by South Carolina Certified laboratories (SCE&G Central Laboratory (Certification Number 32006) and GEL Laboratories, LLC (Certification Numbers 10120001 and 10120002)) for the constituents listed in Appendix III and Appendix IV of the EPA CCR Rule (40 CFR



Parts 257.50 through 257.107), as well as for total alkalinity, magnesium, potassium and sodium.

3.3 Results of Field and Laboratory Analyses of Groundwater Samples

Laboratory data sheets for groundwater samples collected from the compliance monitoring wells during the Assessment Monitoring events conducted in August 2019 are presented **Appendix A**. Historical results of field and laboratory analyses of groundwater samples collected from the Ash Pond monitoring wells for EPA CCR Rule compliance monitoring, including Assessment and Release Characterization groundwater quality monitoring, are presented in **Table 1** for the constituents listed in Appendix III and Appendix IV of the EPA CCR Rule. Groundwater Protection Standards (GPS) established for groundwater at the Ash Pond are indicated beneath the name of each CCR Rule Appendix IV constituent listed in **Table 1**.

During purging of groundwater from the monitoring wells and prior to sampling, measurements were made in the field of the pH, temperature, specific conductance, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) concentrations. The results of the field analyses of these parameters are presented in **Table 1**.

The results of the field-measured water-quality parameters from the August 2019 Assessment Monitoring indicate that the values measured in groundwater collected from the site monitoring wells were within applicable stabilization criteria. Groundwater in the surficial aquifer at the site is slightly acidic to neutral based on the pH values measured in the field (3.89 to 6.72), with the lowest value being measure at background monitoring well MW-AP-01A. Specific conductance values ranged from 44 (MW-AP-01A) to 1,014 (MW-AP-01) $\mu\text{S}/\text{cm}$ in groundwater at the monitoring wells. Turbidity values ranged from 1.4 (MW-AP-01A) to 9.98 (MW-AP-10) NTUs. ORP values ranged from -105.6 (MW-AP-01) to 285.6 (MW-AP-03D2) mV, indicating generally mildly reducing conditions in groundwater in the surficial aquifer. Historically, ORP values in groundwater at the EPA CCR Rule monitoring wells located immediately adjacent to the Ash Pond (i.e., excluding background monitoring well MW-AP-01A) ranged from -128.7 to 285.6 mV, indicating moderately to mildly reducing conditions within groundwater in the surficial aquifer. DO concentrations ranged from 0.07 (MW-AP-10) to 3.71 (MW-AP-01A) mg/L, with most readings being less than 0.5 mg/L, indicating mostly hypoxic conditions in shallow groundwater at the site.



The results of the August 2019 Assessment Monitoring event indicate: 1) arsenic was detected at concentrations exceeding the GPS in groundwater of 10 µg/L at monitoring wells MW-AP-02, MW-AP-03, MW-AP-03D, MW-AP-04, MW-AP-09, MW-AP-09D, MW-AP-10, MW-AP-11, MW-AP-11D, MW-AP-12 and MW-AP-13; 2) cobalt was detected at concentrations exceeding the GPS in groundwater of 6 µg/L at monitoring wells, MW-AP-03D2, MW-AP-09D and MW-AP-11D; and 3) lithium was detected at concentrations exceeding the GPS in groundwater of 40 µg/L at monitoring wells MW-AP-10 and MW-AP-11. No other CCR Rule Appendix IV constituents were detected in groundwater at concentrations in excess of the corresponding GPSs during the August 2019 Assessment Monitoring event except for combined Ra 226/228 at MW-AP-3D (5.59 pCi/L), MW-AP-11D (5.55 pCi/L) and MW-AP-11D2 (5.12 pCi/L), which marginally exceeded the GPS of 5.00 pCi/L.

It is noted that the highest concentration of arsenic in the groundwater samples collected from the shallow Type II monitoring wells was detected in the sample collected from MW-AP-09 (2,030 µg/L), which is located immediately hydraulically up gradient of the Ash Pond. In addition, the concentrations of arsenic detected in the groundwater samples collected from deep Type III monitoring wells MW-AP-03D (971 µg/L) and MW-AP-11D (222 µg/L) significantly exceeded the GPS of 10 µg/L, while the concentration of arsenic detected in the groundwater sample collected from Type III monitoring well MW-AP-09D (38.3 µg/L) only marginally exceeded the GPS. However, the concentrations of arsenic detected in the groundwater samples collected from deeper Type III monitoring wells MW-AP-03D2 (0.35 µg/L, estimated) and MW-AP-11D2 (1.6 µg/L) were significantly lower than the GPS. Cobalt was only detected in concentrations exceeding the GPS of 6 µg/L in the groundwater samples collected from deep Type III monitoring wells MW-AP-03D2 (11.8 µg/L), MW-AP-9D (17.4 µg/L) and MW-AP-11D (8.9 µg/L), which is consistent with the results of the Release Characterization and further supports a scenario in which the naturally occurring concentrations of cobalt in groundwater in the deep surficial aquifer exceed the GPS at some locations.

Isoconcentration contour maps of total arsenic and total lithium in shallow groundwater in the vicinity of the Ash Pond, based on the March 2019 groundwater laboratory analytical data, are presented as **Figures 4** and **5**, respectively. It is noted that arsenic concentrations of 0.0 µg/L were assigned to the locations of FGD Pond EPA CCR Rule monitoring wells MW-FGD-02 through MW-FGD-05 and AS-FGD-01 through AS-FGD-03 in creating the isoconcentration contour map presented in **Figure 3** because arsenic



has historically not been detected in groundwater at those locations. As such, those monitoring wells serve to assist in establishing the up-gradient extent of arsenic in groundwater associated with the Ash Pond. Historical groundwater quality data for the FGD Pond EPA CCR Rule monitoring wells is presented in the August 2019 *Alternate Source Demonstration Report* for the Wateree Station FGD Pond. The configuration of the isoconcentration contours in **Figure 4** indicate that the highest concentrations of arsenic in shallow groundwater are present in a well-defined relatively narrow band within the broader plume which extends from northwest to southeast across the central part of the Ash Pond and becomes narrower as it approaches the vicinity of monitoring wells MW-AP-03 and MW-AP-11. The leading edge of the plume appears to extend laterally between the approximate locations of monitoring wells MW-AP-02 to MW-AP-04.

The configuration of the isoconcentration contours in **Figure 5** indicate that the extent of lithium in shallow groundwater in concentrations exceeding the GPS of 40 µg/L is confined to a relatively small, well-defined area encompassing the approximate locations of monitoring wells MW-AP-03, MW-AP-10 and MW-AP-03/03D/03D2, and is located completely on the Wateree Station property. It is emphasized that concentrations of lithium in groundwater exceeding the GPS of 40 µg/L were only detected in the groundwater samples collected from monitoring wells MW-AP-10 and MW-AP-11, indicating that the extent of lithium in groundwater exceeding the GPS is substantially restricted in aerial extent.

Graphs of total arsenic and lithium concentrations in groundwater versus time for samples collected from the aforementioned monitoring wells during the period of May 2016 to August 2019 are presented in **Appendix B**. The graph of total arsenic concentrations versus time shows an overall downward trend in arsenic concentrations in groundwater at GW-AP-03, which likely is a manifestation of the effects of source removal from the Ash Pond (i.e., coal ash and soil excavation and removal) associated with pond closure, as well as natural attenuation processes affecting arsenic concentrations in groundwater at that location. It is noted that the concentration of arsenic detected in groundwater at MW-AP-03 in August 2019 is the lowest concentration detected in the last 2 1/2 years of monitoring (nine monitoring events). Slightly decreasing to relatively stable arsenic concentrations in groundwater are evident at monitoring wells MW-AP-02 and MW-AP-04, respectively, indicating probable dynamic equilibrium of the total arsenic plume at those locations. The graph of total lithium concentrations versus time shows downward trends in lithium concentrations in



groundwater at GW-AP-02, GW-AP-03 and GW-AP-08, which are likely manifestations of the effects of source material (coal ash and underlying soil) removal from the Ash Pond, as well as natural attenuation processes affecting lithium concentrations in groundwater at that location. It is anticipated that concentrations of arsenic and lithium in groundwater will begin to exhibit downward trends at all down gradient monitoring well locations following completion of coal ash and soil excavation and removal from the Ash Pond in September 2019.

The results of the August 2019 Assessment Monitoring event further support the conclusion that natural attenuation processes in the surficial aquifer are acting to reduce the concentrations of arsenic and lithium in groundwater. Consequently, as concluded in the June 2019 Assessment of Corrective Measures, further assessment of the potential applicability of Monitored Natural Attenuation (MNA) as a remedy to address arsenic and lithium in groundwater at and near the Ash Pond is warranted.

3.4 Monitored Natural Attenuation Assessment

Site studies (including the Release Characterization, ACM and multiple rounds of Detection and Assessment monitoring) indicate that the arsenic and lithium plumes in groundwater in the vicinity of the Ash Pond are in a state of dynamic equilibrium or decreasing in extent. Moreover, removal of the source material (coal ash and underlying 2 feet of soil) from the Ash Pond was completed in September 2019. The source material removal action, coupled with the apparent relative stability or attenuation of the arsenic and lithium plumes indicates that natural attenuation processes are likely sufficiently robust to effectively reduce the concentrations of arsenic and lithium in groundwater to below the respective groundwater protection standards (GPSs). Consequently, DESC currently considers MNA coupled with source removal (completed) to be the preferred remedial alternative to address arsenic and lithium in groundwater at the site. MNA to address inorganic contaminants (including metals and metalloids) in groundwater is a remedial option approved by the EPA if site conditions are amenable based on criteria published in applicable guidance documents.

At present, there is insufficient site data available to meet all of the criteria for MNA as presented in the EPA guidance documents. Consequently, additional field and laboratory work are necessary to fill the data gaps. As such, DESC is currently developing a work plan to conduct the additional field and laboratory work and studies necessary to satisfy the EPA guidance criteria to demonstrate the effectiveness of MNA as a remedy to address elevated arsenic and lithium concentrations in groundwater at



the Ash Pond. The scope of the additional work may broadly include some or all of the following:

- Installation of additional groundwater monitoring wells.
- Soil Sampling and Laboratory Analysis
 - Bulk elemental analysis
 - Grain size distribution
 - Arsenic adsorption/desorption testing
 - Sequential Chemical Extraction
 - X-Ray Diffraction
 - Scanning Electron Microscopy
- Groundwater Sampling and Analysis

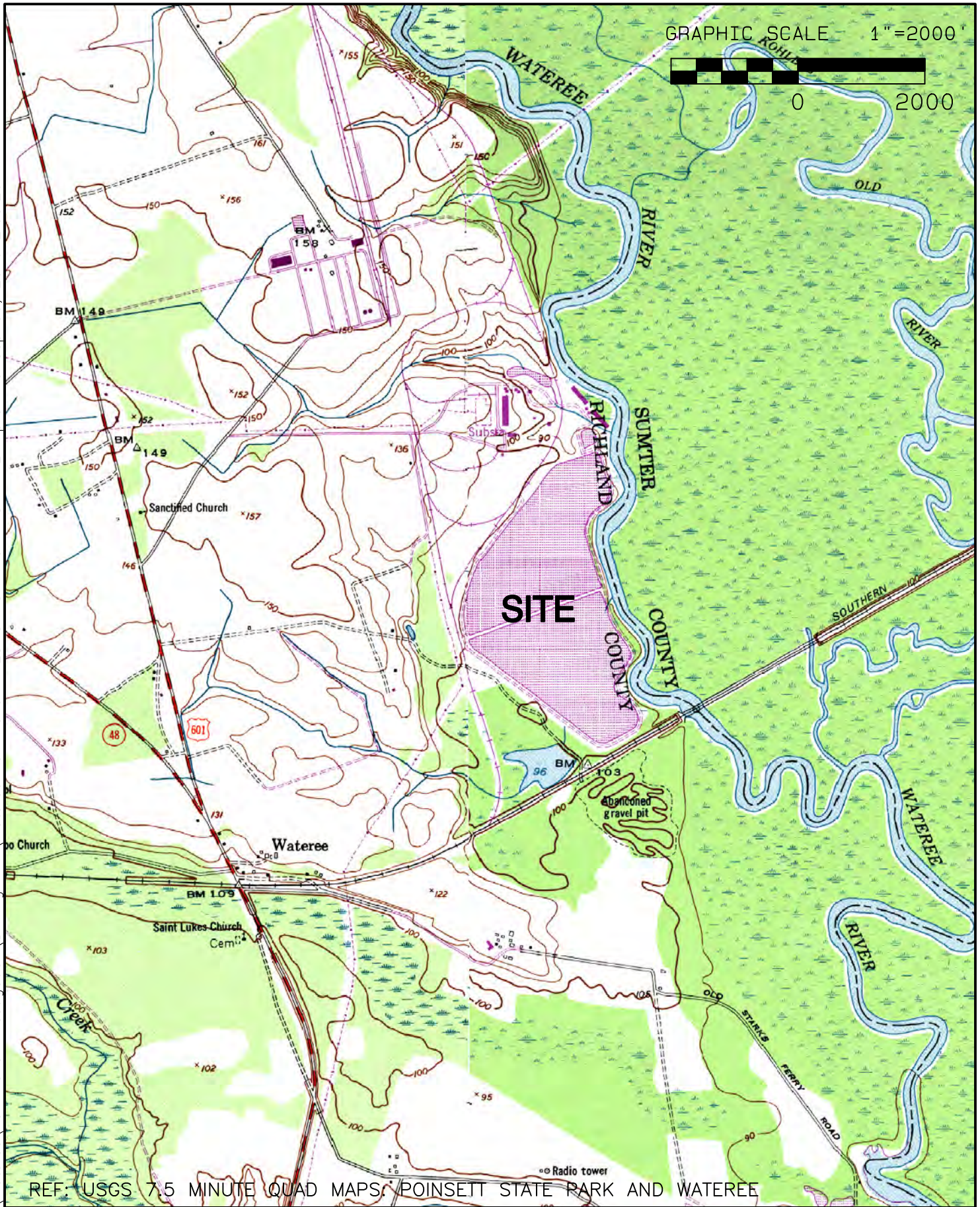
At the conclusion of the field and laboratory work and studies, a report detailing the results of the MNA assessment will be prepared that presents the results of the supporting work and studies, as well as conclusions as to whether MNA meets the EPA guidance criteria for application as a remedy to address elevated concentrations of arsenic and lithium in groundwater. It is estimated that it will require 9 to 12 months to finalize the work plan and implement and complete the scope of work, including final report preparation. The final remedy will be selected after completion of the MNA assessment.

V:\SCE&G\Wateree\Ash Pond Investigation\Drilling RFP\Wateree Ash Pond INVESTIGATION Plan-WORK PLAN.pro Thu Sep 30, 2010 2:03:20PM

GRAPHIC SCALE 1"=2000'



0 2000



REF. USGS 7.5 MINUTE QUAD MAPS, POINSETT STATE PARK AND WATREEE



**DOMINION ENERGY SOUTH CAROLINA
WATREEE STATION
SITE LOCATION MAP**

JOB

FIG




1

**EPA CCR RULE COMPLIANCE
GROUNDWATER MONITORING WELLS**

FGD WASTEWATER POND

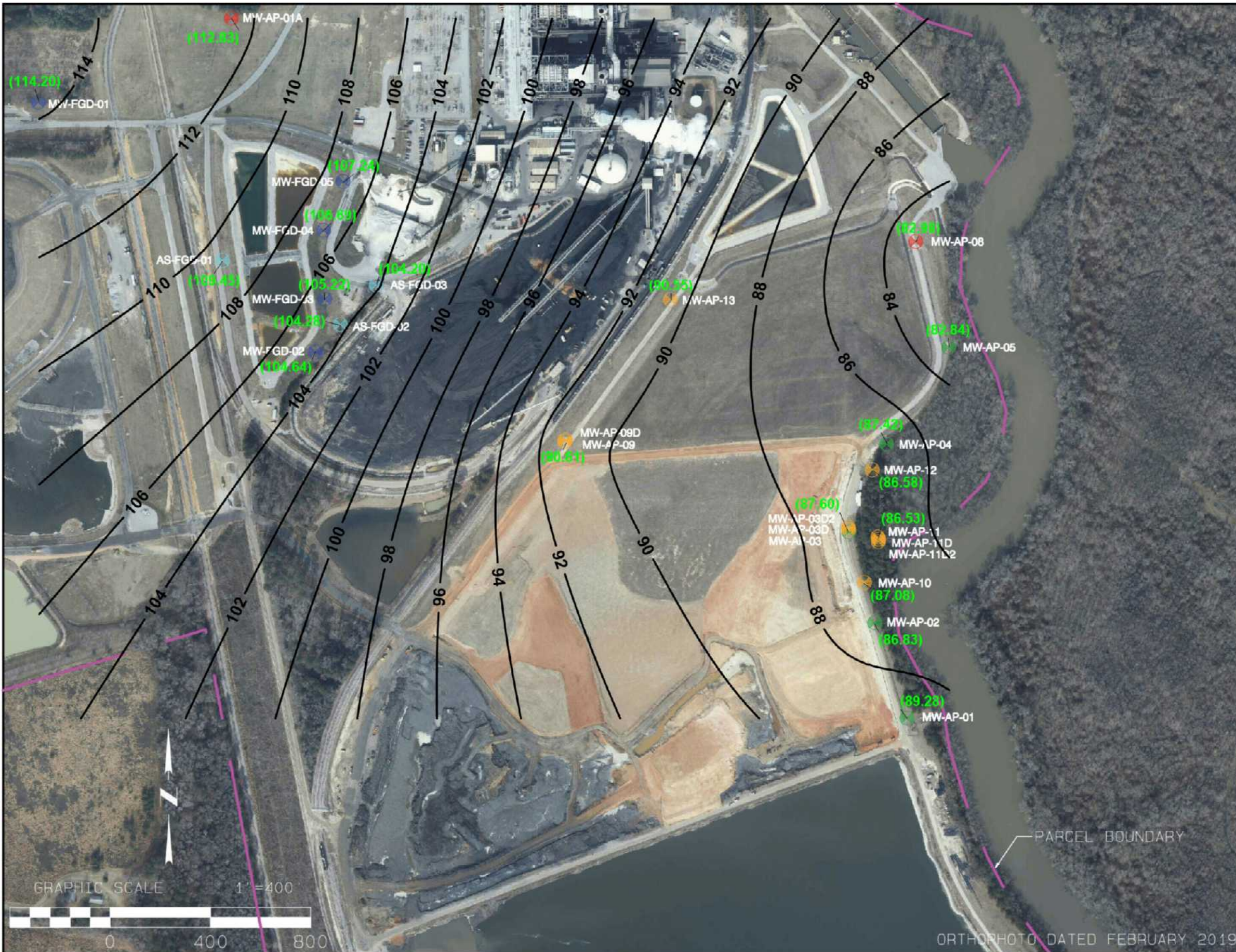
-  Background and down gradient monitoring wells
-  Additional background monitoring well

ASH POND

-  Existing well used for background and down gradient water quality monitoring
-  Well used for down gradient water quality monitoring
-  Release Characterization monitoring well



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**EPA CCR RULE COMPLIANCE
GROUNDWATER MONITORING WELLS**

FGD WASTEWATER POND

- Background and down gradient monitoring wells
- Additional background monitoring well

ASH POND

- Existing well used for background and down gradient water quality monitoring
- Well used for down gradient water quality monitoring
- Release Characterization monitoring well

- (104.63) Groundwater Elevation (ft. MSL)
- 100 Groundwater Elevation Contour (ft. MSL)

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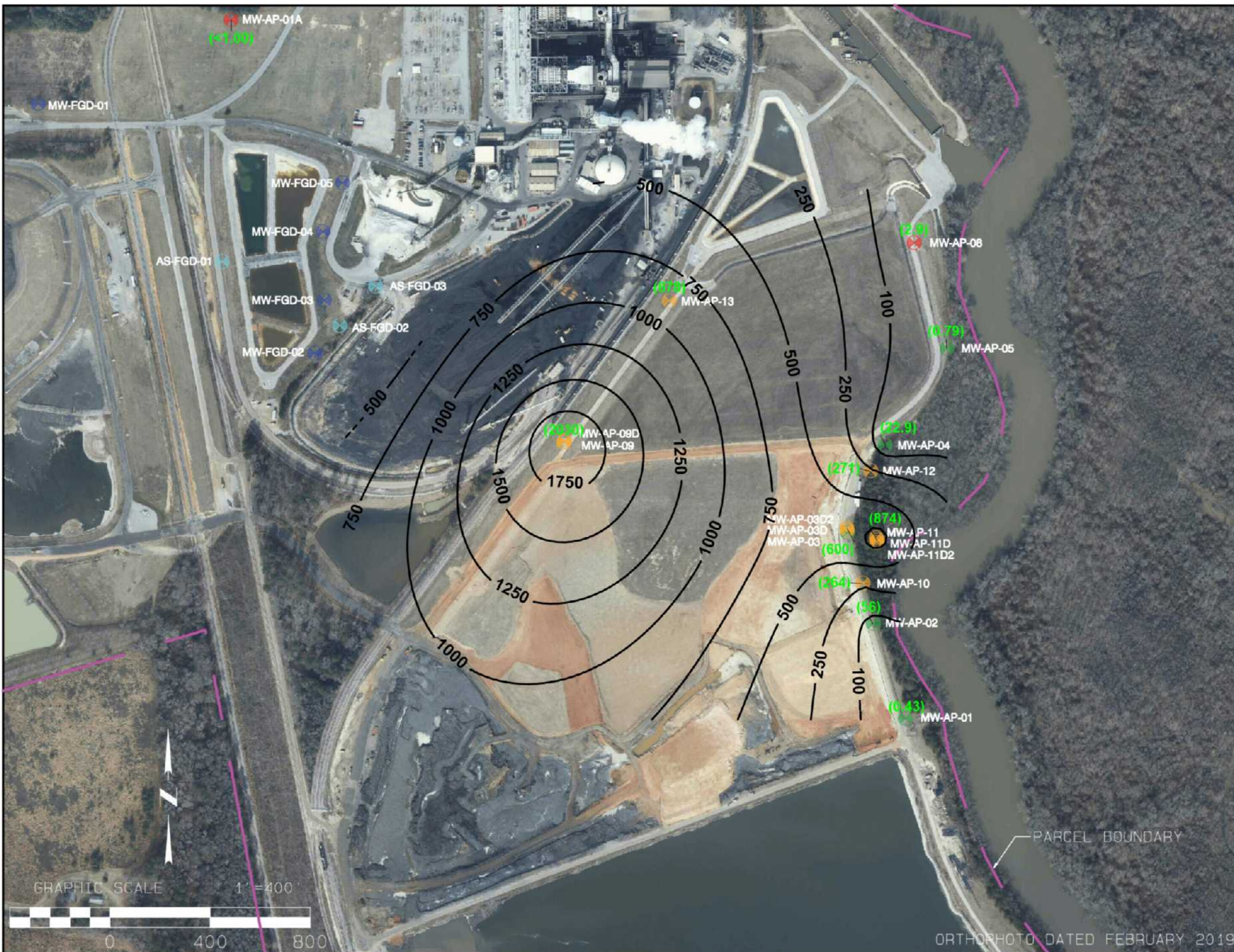
ORTHOPHOTO DATED FEBRUARY 2019



**DOMINION ENERGY SOUTH CAROLINA
WATEREE STATION**

**Groundwater Elevation Contour Map:
Shallow Surficial Aquifer: August 2019**

JOB NUMBER
SHEET
3



**EPA CCR RULE COMPLIANCE
GROUNDWATER MONITORING WELLS**

FGD WASTEWATER POND

- Background and down gradient monitoring wells
- Additional background monitoring well

ASH POND

- Existing well used for background and down gradient water quality monitoring
- Well used for down gradient water quality monitoring
- Release Characterization monitoring well

(587) Total Arsenic Concentration (ug/L)

—500 Total Arsenic Isoconcentration Contour (ug/L)

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**DOMINION ENERGY SOUTH CAROLINA
WATEREE STATION**

**Total Arsenic Isoconcentration
Contour Map: August 2019**

| |
|-------------------|
| JOB NUMBER |
| SHEET |
| 4 |



**EPA CCR RULE COMPLIANCE
GROUNDWATER MONITORING WELLS**

FGD WASTEWATER POND

- Background and down gradient monitoring wells
- Additional background monitoring well

ASH POND

- Existing well used for background and down gradient water quality monitoring
- Well used for down gradient water quality monitoring
- Release Characterization monitoring well

- (16.3) Total Lithium Concentration (ug/L)
- 40 Total Lithium Concentration Contour (ug/L)

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ORTHO PHOTO DATED FEBRUARY 2019



**DOMINION ENERGY SOUTH CAROLINA
WATEREE STATION**

**Total Lithium Isoconcentration
Contour Map: August 2019**

| |
|-------------------|
| JOB NUMBER |
| SHEET |
| 5 |

Table 1
EPA CCR Rule Compliance Monitoring Well Construction Data and Specifications
South Carolina Electric & Gas
Wateree Station Ash Pond
Eastover, Richland County, South Carolina

| Monitoring Well ID | Boring Date | Northing | Easting | Elevation Data | | | Test Boring Data | | Monitoring Well Construction Data | | | |
|------------------------|-------------|------------|-------------|----------------|--------------|--------------|------------------|------------------|-----------------------------------|--------|-----------------------|--------|
| | | | | PVC Pipe Elev. | Ground Elev. | Stickup feet | Total Depth, ft. | Bottom Elevation | Top of Well Screen | | Bottom of Well Screen | |
| | | | | | | | | | Depth, ft. | Elev. | Depth, ft. | Elev. |
| MW-AP-01A ¹ | 2/12/2010 | 725454.7 | 2113347 | 127.85 | 124.48 | 3.37 | 20.0 | 104.48 | 10.00 | 114.48 | 20.00 | 104.48 |
| MW-AP-01 | 3/23/2016 | 722661.185 | 2116042.428 | 108.21 | 105.61 | 2.60 | 25.0 | 80.61 | 9.00 | 96.61 | 24.00 | 81.61 |
| MW-AP-02 | 3/23/2016 | 723041.752 | 2115914.909 | 111.01 | 108.45 | 2.56 | 31.5 | 76.95 | 15.00 | 93.45 | 30.00 | 78.45 |
| MW-AP-03 | 3/24/2016 | 723404.287 | 2115810.885 | 110.38 | 107.78 | 2.60 | 31.5 | 76.28 | 16.00 | 91.78 | 31.00 | 76.78 |
| MW-AP-03D | 12/5/2018 | 723413.593 | 2115810.374 | 110.61 | 107.98 | 2.63 | 48.0 | 59.98 | 38.00 | 69.98 | 48.00 | 59.98 |
| MW-AP-03D2 | 2/21/2019 | 723423.757 | 2115809.097 | 110.68 | 107.68 | 3.00 | 70.0 | 37.68 | 60.00 | 47.68 | 70.00 | 37.68 |
| MW-AP-04 | 3/24/2016 | 723755.232 | 2115961.707 | 99.02 | 96.49 | 2.53 | 24.0 | 72.49 | 6.00 | 90.49 | 21.00 | 75.49 |
| MW-AP-05 | 3/24/2016 | 724141.607 | 2116209.66 | 106.04 | 103.45 | 2.59 | 38.0 | 65.45 | 21.50 | 81.95 | 36.50 | 66.95 |
| MW-AP-08 ¹ | 7/25/1994 | 724563.489 | 2116078.084 | 109.49 | 106.35 | 3.14 | 44.0 | 62.35 | 24.00 | 82.35 | 44.00 | 62.35 |
| MW-AP-09 | 11/29/2018 | 723765.094 | 2114676.468 | 112.48 | 109.65 | 2.83 | 30.0 | 79.65 | 20.00 | 89.65 | 30.00 | 79.65 |
| MW-AP-09D | 12/6/2018 | 723770.958 | 2114680.792 | 112.23 | 109.57 | 2.66 | 54.0 | 55.57 | 44.00 | 65.57 | 54.00 | 55.57 |
| MW-AP-10 | 12/4/2018 | 723202.553 | 2115873.156 | 110.80 | 108.23 | 2.57 | 30.0 | 78.23 | 20.00 | 88.23 | 30.00 | 78.23 |
| MW-AP-11 | 12/3/2018 | 723383.603 | 2115926.173 | 102.93 | 100.00 | 2.92 | 18.0 | 82.00 | 8.00 | 92.00 | 18.00 | 82.00 |
| MW-AP-11D | 12/4/2018 | 723374.828 | 2115930.574 | 102.98 | 100.03 | 2.95 | 38.0 | 62.03 | 28.00 | 72.03 | 38.00 | 62.03 |
| MW-AP-11D2 | 2/20/2019 | 723365.56 | 2115929.465 | 103.90 | 99.68 | 4.22 | 60.0 | 39.68 | 50.00 | 49.68 | 60.00 | 39.68 |
| MW-AP-12 | 12/5/2016 | 723651.848 | 2115905.049 | 106.06 | 103.18 | 2.88 | 29.0 | 74.18 | 19.00 | 84.18 | 29.00 | 74.18 |
| MW-AP-13 | 2/21/2019 | 724330.57 | 2115097.858 | 109.91 | 107.03 | 2.88 | 28.0 | 79.03 | 18.00 | 89.03 | 28.00 | 79.03 |

NOTES:

1 - Existing monitoring wells; installed prior to March 2016 for use in groundwater monitoring under other regulatory programs but included in EPA CCR Rule compliance monitoring.



APPENDIX A

Results of Field and Laboratory Analyses of Groundwater Samples

List of current GEL Certifications as of 23 September 2019

| State | Certification |
|--------------------------|------------------------------|
| Alaska | 17-018 |
| Arkansas | 88-0651 |
| CLIA | 42D0904046 |
| California | 2940 |
| Colorado | SC00012 |
| Connecticut | PH-0169 |
| DoD ELAP/ ISO17025 A2LA | 2567.01 |
| Florida NELAP | E87156 |
| Foreign Soils Permit | P330-15-00283, P330-15-00253 |
| Georgia | SC00012 |
| Georgia SDWA | 967 |
| Hawaii | SC00012 |
| Idaho | SC00012 |
| Illinois NELAP | 200029 |
| Indiana | C-SC-01 |
| Kansas NELAP | E-10332 |
| Kentucky SDWA | 90129 |
| Kentucky Wastewater | 90129 |
| Louisiana Drinking Water | LA024 |
| Louisiana NELAP | 03046 (AI33904) |
| Maine | 2019020 |
| Maryland | 270 |
| Massachusetts | M-SC012 |
| Michigan | 9976 |
| Mississippi | SC00012 |
| Nebraska | NE-OS-26-13 |
| Nevada | SC000122020-1 |
| New Hampshire NELAP | 2054 |
| New Jersey NELAP | SC002 |
| New Mexico | SC00012 |
| New York NELAP | 11501 |
| North Carolina | 233 |
| North Carolina SDWA | 45709 |
| North Dakota | R-158 |
| Oklahoma | 2019-013 |
| Pennsylvania NELAP | 68-00485 |
| Puerto Rico | SC00012 |
| S. Carolina Radiochem | 10120002 |
| South Carolina Chemistry | 10120001 |
| Tennessee | TN 02934 |
| Texas NELAP | T104704235-19-15 |
| Utah NELAP | SC000122019-28 |
| Vermont | VT87156 |
| Virginia NELAP | 460202 |
| Washington | C780 |

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

GEEL003 GEL Engineering, LLC

Client SDG: 489339 GEL Work Order: 489339

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by _____



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 23, 2019

Company : GEL Engineering
 Address : 2040 Savage Road

 Charleston, South Carolina 29407
 Contact: Mr. Robby Gardner
 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-01 | Project: SCEG01716c |
| Sample ID: 489339001 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 27-AUG-19 12:40 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.48 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.12 | 0.318 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 79.5 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-11 | Project: SCEG01716c |
| Sample ID: 489339002 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 27-AUG-19 13:50 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.40 | 3.00 | pCi/L | | | LXB3 | 09/18/19 | 1003 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.952 | 0.653 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 72.6 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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 Project: Wateree CCR

Client Sample ID: MW-AP-02
 Sample ID: 489339003
 Matrix: GW
 Collect Date: 27-AUG-19 13:54
 Receive Date: 07-SEP-19
 Collector: Client

Project: SCEG01716c
 Client ID: GEEL003

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 2.15 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1447 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 2.15 | 0.396 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 67.9 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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Project: Wateree CCR

Client Sample ID: MW-AP-11D Project: SCEG01716c
Sample ID: 489339004 Client ID: GEEL003
Matrix: GW
Collect Date: 27-AUG-19 14:35
Receive Date: 07-SEP-19
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | | 2.96 | 1.52 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 2.59 | 0.693 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 78.4 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-03 | Project: SCEG01716c |
| Sample ID: 489339005 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 27-AUG-19 15:00 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 2.12 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.64 | 0.349 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 74.4 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-11D2 | Project: SCEG01716c |
| Sample ID: 489339006 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 27-AUG-19 15:30 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | | 3.13 | 1.69 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.99 | 0.572 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 86.2 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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Client Sample ID: MW-AP-03D Project: SCEG01716c
Sample ID: 489339007 Client ID: GEEL003
Matrix: GW
Collect Date: 27-AUG-19 16:05
Receive Date: 07-SEP-19
Collector: Client

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | | 4.61 | 1.54 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.980 | 0.548 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 74.4 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-10 | Project: SCEG01716c |
| Sample ID: 489339008 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 27-AUG-19 17:20 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.88 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.39 | 0.714 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0817 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 84.5 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-05 | Project: SCEG01716c |
| Sample ID: 489339009 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 13:35 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 2.14 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1447 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.919 | 0.827 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 74.6 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-09 | Project: SCEG01716c |
| Sample ID: 489339010 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 13:58 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | | 1.58 | 1.23 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.44 | 0.522 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 85.1 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-08 | Project: SCEG01716c |
| Sample ID: 489339011 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 14:50 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.61 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 1.70 | 0.614 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 93.8 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-09D | Project: SCEG01716c |
| Sample ID: 489339012 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 14:54 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | | 1.57 | 1.29 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 2.53 | 0.793 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 80.2 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-01A | Project: SCEG01716c |
| Sample ID: 489339013 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 10:37 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.34 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.883 | 0.465 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 82.5 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 23, 2019

Company : GEL Engineering
 Address : 2040 Savage Road

 Charleston, South Carolina 29407
 Contact: Mr. Robby Gardner
 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-03D2 | Project: SCEG01716c |
| Sample ID: 489339014 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 10:45 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.33 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.335 | 0.321 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 81.8 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 23, 2019

Company : GEL Engineering
 Address : 2040 Savage Road

 Charleston, South Carolina 29407
 Contact: Mr. Robby Gardner
 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-12 | Project: SCEG01716c |
| Sample ID: 489339015 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 11:38 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 2.06 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1312 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.726 | 0.409 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 77.7 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 23, 2019

Company : GEL Engineering
 Address : 2040 Savage Road

 Charleston, South Carolina 29407
 Contact: Mr. Robby Gardner
 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-04 | Project: SCEG01716c |
| Sample ID: 489339016 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 12:00 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 1.96 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1314 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.971 | 0.583 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0851 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 90.3 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2019

Company : GEL Engineering
 Address : 2040 Savage Road

 Charleston, South Carolina 29407
 Contact: Mr. Robby Gardner
 Project: Wateree CCR

| | |
|-------------------------------|---------------------|
| Client Sample ID: MW-AP-13 | Project: SCEG01716c |
| Sample ID: 489339017 | Client ID: GEEL003 |
| Matrix: GW | |
| Collect Date: 28-AUG-19 12:34 | |
| Receive Date: 07-SEP-19 | |
| Collector: Client | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|-----------|--------|-------|------|-------|----|----|---------|----------|------|---------|--------|
| Rad Gas Flow Proportional Counting | | | | | | | | | | | | |
| GFPC, Ra228, Liquid "As Received" | | | | | | | | | | | | |
| Radium-228 | U | ND | 2.51 | 3.00 | pCi/L | | | LXB3 | 09/16/19 | 1314 | 1913994 | 1 |
| Rad Radium-226 | | | | | | | | | | | | |
| Lucas Cell, Ra226, liquid "As Received" | | | | | | | | | | | | |
| Radium-226 | | 0.979 | 0.300 | 1.00 | pCi/L | | | MXH8 | 09/19/19 | 0922 | 1914711 | 2 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|--------|-------------------------------|------------------|
| 1 | EPA 904.0/SW846 9320 Modified | |
| 2 | EPA 903.1 Modified | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---------------------------|-----------------------------------|--------|---------|-----------|-------------------|
| Barium-133 Tracer | GFPC, Ra228, Liquid "As Received" | | | 76.5 | (15%-125%) |

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 23, 2019

Page 1 of 2

GEL Engineering
2040 Savage Road
Charleston, South Carolina

Contact: Mr. Robby Gardner

Workorder: 489339

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---------------------|-----------|--------|------|--------|-------|------|------|-------------|-------|----------|-------|
| Rad Gas Flow | | | | | | | | | | | |
| Batch | 1913994 | | | | | | | | | | |
| QC1204374234 | 489339008 | DUP | | | | | | | | | |
| Radium-228 | U | 1.05 | U | -0.33 | pCi/L | N/A | | N/A | LXB3 | 09/16/19 | 13:14 |
| QC1204374235 | LCS | | | | | | | | | | |
| Radium-228 | 61.7 | | | 57.6 | pCi/L | | 93.4 | (75%-125%) | | 09/16/19 | 13:14 |
| QC1204374233 | MB | | | | | | | | | | |
| Radium-228 | | | U | -0.356 | pCi/L | | | | | 09/16/19 | 13:14 |
| Rad Ra-226 | | | | | | | | | | | |
| Batch | 1914711 | | | | | | | | | | |
| QC1204376094 | 489339013 | DUP | | | | | | | | | |
| Radium-226 | | 0.883 | | 1.30 | pCi/L | 38 | | (0% - 100%) | MXH8 | 09/19/19 | 09:22 |
| QC1204376096 | LCS | | | | | | | | | | |
| Radium-226 | 27.1 | | | 23.5 | pCi/L | | 86.9 | (75%-125%) | | 09/19/19 | 09:22 |
| QC1204376093 | MB | | | | | | | | | | |
| Radium-226 | | | U | 0.201 | pCi/L | | | | | 09/19/19 | 09:22 |
| QC1204376095 | 489339013 | MS | | | | | | | | | |
| Radium-226 | 27.1 | 0.883 | | 24.7 | pCi/L | | 87.9 | (75%-125%) | | 09/19/19 | 09:22 |

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded

GEL LABORATORIES LLC

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

QC Summary

Workorder: 489339

Page 2 of 2

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|----------|--|--------|------|----|-------|------|------|-------|-------|------|------|
| J | See case narrative for an explanation | | | | | | | | | | |
| J | Value is estimated | | | | | | | | | | |
| K | Analyte present. Reported value may be biased high. Actual value is expected to be lower. | | | | | | | | | | |
| L | Analyte present. Reported value may be biased low. Actual value is expected to be higher. | | | | | | | | | | |
| M | M if above MDC and less than LLD | | | | | | | | | | |
| M | REMP Result > MDC/CL and < RDL | | | | | | | | | | |
| N/A | RPD or %Recovery limits do not apply. | | | | | | | | | | |
| N1 | See case narrative | | | | | | | | | | |
| ND | Analyte concentration is not detected above the detection limit | | | | | | | | | | |
| NJ | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier | | | | | | | | | | |
| Q | One or more quality control criteria have not been met. Refer to the applicable narrative or DER. | | | | | | | | | | |
| R | Sample results are rejected | | | | | | | | | | |
| U | Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD. | | | | | | | | | | |
| UI | Gamma Spectroscopy--Uncertain identification | | | | | | | | | | |
| UJ | Gamma Spectroscopy--Uncertain identification | | | | | | | | | | |
| UL | Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias. | | | | | | | | | | |
| X | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier | | | | | | | | | | |
| Y | Other specific qualifiers were required to properly define the results. Consult case narrative. | | | | | | | | | | |
| ^ | RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry. | | | | | | | | | | |
| h | Preparation or preservation holding time was exceeded | | | | | | | | | | |

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

GEL Work Order Number: 409339
 Chain of Custody and Analytical Request
 GEL Project Manager:
 Client Name: Dominion
 Project/Site Name: Waterline CCR Ash Pond
 Address:
 Phone #
 Fax #

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

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (hh:mm) | QC Code (3) | Field Filtered (4) | Sample Matrix (6) | Should this sample be considered: Please supply isotopic info | Total number of containers | Preservative Type (6) | Comments |
|------------|----------------------------|-------------------------|-------------|--------------------|-------------------|--|----------------------------|-----------------------|---|
| MW-AP-01 | 08-27-19 | 1240 | N | N | GW | | 1 | | Note: extra sample is required for sample specific QC |
| MW-AP-11 | | 1350 | | | | | 1 | | |
| MW-AP-02 | | 1354 | | | | | 1 | | |
| MW-AP-11D | | 1435 | | | | | 1 | | |
| MW-AP-03 | | 1500 | | | | | 1 | | |
| MW-AP-11D2 | | 1530 | | | | | 1 | | |
| MW-AP-03D | | 1605 | | | | | 1 | | |
| MW-AP-10 | | 1720 | | | | | 1 | | |

Send Results To: CCR Group/Robby Gardner
 Relinquished By (Signed) _____ Date _____
 Received by (Signed) _____ Date _____
 Chain of Custody Signatures

1. Control 8/28/19 1800
 2. locked truck 8/28/19 0700
 3. Control 8/28/19
 For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 21°C
 TAT Requested: Normal: Rush: Specify: 1 week (Subject to Surchage)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, L=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=fecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers requested for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank.
 7.) Are there any known or possible hazards associated with these samples?
 Characteristic Hazards: FL = Flammable/Ignitable LW = Listed Waste (F,K,P and U-listed wastes.)
 CO = Corrosive RE = Reactive
 TSCA Regulated: PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Miscellaneous RCRA metals
 Pb = Lead
 Other: OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, add matrices, etc.)
Sketch 9-7-19 0840
09/07/19 0840

Chain of Custody and Analytical Request
GEL Project Manager:

GEL Work Order Number: _____
Client Name: Dominion
Project/Site Name: Waterway CCR Ash Pond
Address: _____
Phone #: _____
Fax #: _____

| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hh:mm) | QC Code (3) | Field Filtered (1) | Sample Matrix (4) | Radioactive (Please supply isotopic info) | Should this sample be considered: | Sample Analysis Requested (5) (Fill in the number of containers for each test) | | Comments |
|-----------|----------------------------|------------------------------------|-------------|--------------------|-------------------|---|-----------------------------------|--|-----------------------|---|
| | | | | | | | | Total number of containers | Preservative Type (6) | |
| MW-AP-05 | 08-28-19 | 1335 | N | N | GW | | | NI | | Note: extra sample is required for sample specific QC |
| MW-AP-09 | | 1358 | N | N | GW | | | Ro 226/228 | | |
| MW-AP-08 | | 1450 | N | N | GW | | | | | |
| MW-AP-09D | | 1454 | N | N | GW | | | | | |

Send Results To: CCR Group

Relinquished By (Signed): _____ **Date:** _____ **Time:** _____

Received by (signed): _____ **Date:** _____ **Time:** _____

Chain of Custody Signatures

1. *Joe Hill* 8/28/19 5000 *Joe Hill* 8/29/19 1800
 2. *Joe Hill* 8/29/19 0700
 3. *Joe Hill* 8/29/19 1440 *Phillip Gray* 8/29/19 1445

TAT Requested: Normal: _____ Rush: _____ Specify: _____
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: _____
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a -Y- for yes the sample was field filtered or -N- for sample was not field filtered.
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) Are there any known or possible hazards associated with these samples?
 Characteristic Hazards: _____
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste: _____
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s): _____
 Other: _____
 OT = Other / Unknown
 (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

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

TSCA Regulated
 PCB = Polychlorinated biphenyls

Additional Information:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, add matrices, etc.)
 Steve Rube - 9-7-19 0840
 09/24/19 0840

Client Name: Dominion Env. - SEG
 Project/Site Name: Wateree CCR Ash Pond
 Address: _____
 Phone # _____
 Fax # _____

Chain of Custody and Analytical Request
 GEL Project Manager: _____
 Chain of Custody and Analytical Request

| Sample ID | Date Collected (mm-dd-yy) | *Time Collected (Military) (hh:mm) | QC Code (a) | Field Filtered (b) | Sample Matrix (c) | Radiative isotopic info | Should this sample be considered: | Total number of containers | Sample Analysis Requested (5) | Preservative Type (6) | Comments |
|------------|---------------------------|------------------------------------|-------------|--------------------|-------------------|-------------------------|-----------------------------------|----------------------------|-------------------------------|-----------------------|---|
| MW-AP-01A | 8/28/19 | 1037 | N | N | GW | | | 1 | NI | | Note: extra sample is required for sample specific QC |
| MW-AP-03D2 | | 1045 | N | N | GW | | | 1 | NI | | |
| MW-AP-12 | | 1138 | N | N | GW | | | 1 | NI | | |
| MW-AP-04 | | 1200 | N | N | GW | | | 1 | NI | | |
| MW-AP-13 | | 1234 | N | N | GW | | | 1 | NI | | |

Send Results To: DEC R. M. S. P. / Robby Gardner
 Residuals
 Relinquished By (Signed) _____ Date _____
 Received by (signed) _____ Date _____
 Time _____ Time _____
 TAT Requested: Normal: Rush: Specify: 1 week (Subject to Surchage)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____
 Received by (signed) _____ Date _____
 Time _____ Time _____
 1. Chain of Custody Number = Client Determined
 2. QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3. Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4. Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5. Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6. Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Ascorbic Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, if no preservative is added = leave field blank
 7. Are there any known or possible hazards associated with these samples?
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes)
 Waste code(s):
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Miscellaneous
 Pb = Lead RCRA metals
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

**Radiochemistry
Technical Case Narrative
GEL Engineering, LLC
SDG #: 489339**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-009 REV# 17

Analytical Batch: 1913994

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|--|
| 489339001 | MW-AP-01 |
| 489339002 | MW-AP-11 |
| 489339003 | MW-AP-02 |
| 489339004 | MW-AP-11D |
| 489339005 | MW-AP-03 |
| 489339006 | MW-AP-11D2 |
| 489339007 | MW-AP-03D |
| 489339008 | MW-AP-10 |
| 489339009 | MW-AP-05 |
| 489339010 | MW-AP-09 |
| 489339011 | MW-AP-08 |
| 489339012 | MW-AP-09D |
| 489339013 | MW-AP-01A |
| 489339014 | MW-AP-03D2 |
| 489339015 | MW-AP-12 |
| 489339016 | MW-AP-04 |
| 489339017 | MW-AP-13 |
| 1204374233 | Method Blank (MB) |
| 1204374234 | 489339008(MW-AP-10) Sample Duplicate (DUP) |
| 1204374235 | Laboratory Control Sample (LCS) |

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

Data Summary:

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

Technical Information

Recounts

Samples 489339003 (MW-AP-02) and 489339009 (MW-AP-05) were recounted to verify sample results. Recounts are reported. Sample 489339002 (MW-AP-11) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 1914711

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

| <u>GEL Sample ID#</u> | <u>Client Sample Identification</u> |
|------------------------------|---|
| 489339001 | MW-AP-01 |
| 489339002 | MW-AP-11 |
| 489339003 | MW-AP-02 |
| 489339004 | MW-AP-11D |
| 489339005 | MW-AP-03 |
| 489339006 | MW-AP-11D2 |
| 489339007 | MW-AP-03D |
| 489339008 | MW-AP-10 |
| 489339009 | MW-AP-05 |
| 489339010 | MW-AP-09 |
| 489339011 | MW-AP-08 |
| 489339012 | MW-AP-09D |
| 489339013 | MW-AP-01A |
| 489339014 | MW-AP-03D2 |
| 489339015 | MW-AP-12 |
| 489339016 | MW-AP-04 |
| 489339017 | MW-AP-13 |
| 1204376093 | Method Blank (MB) |
| 1204376094 | 489339013(MW-AP-01A) Sample Duplicate (DUP) |
| 1204376095 | 489339013(MW-AP-01A) Matrix Spike (MS) |
| 1204376096 | Laboratory Control Sample (LCS) |

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

Data Summary:

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

Certification Statement

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



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September 06, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: BA07142

Wateree Well AP1-05 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:35

Date & Time Submitted: August 29, 2019 14:40

Collected by: A.HILL Location Code: WAAP105TDS

AP1-05

Login Record File: 190829007

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 19.4 | 0.50 | 0.038 | mg/L | 9/2/19 05:55 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.10 | 0.008 | mg/L | 9/2/19 05:55 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.20 | | | S.U. | 9/4/19 15:56 | PRC |
| Sulfates by IC EPA 300.0 | 23.4 | 0.50 | 0.063 | mg/L | 9/2/19 05:55 | BB |
| Total Alkalinity by SM2320B | 154 | 0.50 | 0.50 | mg/L | 9/4/19 12:56 | PRC |
| Total Dissolved Solid-SM2540C | 225 | 2.0 | 2.0 | mg/L | 9/4/19 12:02 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capers



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September 06, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: BA07143

Wateree Well AP1-09 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:58
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP109TDS

AP1-09

Login Record File: 190829007

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 42.0 | 1.00 | 0.076 | mg/L | 9/2/19 05:55 | BB |
| Fluoride by IC EPA 300.0 | 0.48 | 0.20 | 0.016 | mg/L | 9/2/19 05:55 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.29 | | | S.U. | 9/4/19 15:56 | PRC |
| Sulfates by IC EPA 300.0 | 152 | 1.00 | 0.126 | mg/L | 9/2/19 05:55 | BB |
| Total Alkalinity by SM2320B | 125 | 0.50 | 0.50 | mg/L | 9/4/19 12:56 | PRC |
| Total Dissolved Solid-SM2540C | 403 | 2.0 | 2.0 | mg/L | 9/4/19 12:02 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cooper



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September 06, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07144**

Wateree Well AP1-08 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:50

Date & Time Submitted: August 29, 2019 14:40

Collected by: A.HILL Location Code: WAAP108TDS

AP1-01

Login Record File: 190829007

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 20.3 | 0.50 | 0.038 | mg/L | 9/2/19 05:55 | BB |
| Fluoride by IC EPA 300.0 | 0.61 | 0.10 | 0.008 | mg/L | 9/2/19 05:55 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.13 | | | S.U. | 9/4/19 15:56 | PRC |
| Sulfates by IC EPA 300.0 | 36.4 | 0.50 | 0.063 | mg/L | 9/2/19 05:55 | BB |
| Total Alkalinity by SM2320B | 172 | 0.50 | 0.50 | mg/L | 9/4/19 12:56 | PRC |
| Total Dissolved Solid-SM2540C | 292 | 2.0 | 2.0 | mg/L | 9/4/19 12:02 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capen



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September 06, 2019

REPORT TO:
 Rashida Marlowe
 Rocky Archer

Sample ID: **BA07145**

Wateree Well AP1-09D (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:54
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP109DTDS

AP1-09D

Login Record File: 190829007

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 18.6 | 1.00 | 0.076 | mg/L | 9/2/19 05:55 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.20 | 0.016 | mg/L | 9/2/19 05:55 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 5.71 | | | S.U. | 9/4/19 15:56 | PRC |
| Sulfates by IC EPA 300.0 | 114 | 1.00 | 0.126 | mg/L | 9/2/19 05:55 | BB |
| Total Alkalinity by SM2320B | 31.9 | 0.50 | 0.50 | mg/L | 9/4/19 12:56 | PRC |
| Total Dissolved Solid-SM2540C | 230 | 2.0 | 2.0 | mg/L | 9/4/19 12:02 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: *Phillip Capra*



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September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07054**

Wateree Well AP1-01 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 12:40
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101TDS

AP1-01

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 255 | 1.50 | 0.114 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.30 | 0.024 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.67 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 1.94 | 1.50 | 0.189 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 158 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 603 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07055**

Wateree Well AP1-11 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 13:50
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11TDS

AP1-11

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 128 | 1.00 | 0.076 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 0.82 | 0.20 | 0.016 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.55 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 68.0 | 1.00 | 0.126 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 111 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 463 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07056**

Wateree Well AP1-02 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 13:54
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP102TDS

AP1-02

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 38.7 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 0.18 | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.58 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | Less than PQL | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 132 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 340 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| REPORT TO: |
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| Rashida Marlowe Rocky Archer |

Sample ID: **BA07057**

Wateree Well AP1-11D (NPDES/CCR)

Date & Time Sampled: August 27, 2019 14:35
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11DTDS

AP1-11D

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 16.1 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.35 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 78.2 | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 81.2 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 191 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07058**

Wateree Well AP1-03 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:00
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103TDS

AP1-03

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 73.2 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 0.42 | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.46 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 68.8 | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 153 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 466 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07059**

Wateree Well AP1-11D2 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:30
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11D2TDS

AP1-11D

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 10.9 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 5.91 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 27.2 | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 54.2 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 86 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07060**

Wateree Well AP1-03D (NPDES/CCR)

Date & Time Sampled: August 27, 2019 16:05
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103DTDS

AP1-03D

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 23.9 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 0.23 | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.31 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 85.3 | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 78.3 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 231 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07061**

Wateree Well AP1-10 (NPDES/CCR)

Date & Time Sampled: August 27, 2019 17:20
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP10TDS

AP1-10

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 134 | 1.00 | 0.076 | mg/L | 8/30/19 22:18 | BB |
| Fluoride by IC EPA 300.0 | 0.48 | 0.20 | 0.016 | mg/L | 8/30/19 22:18 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.60 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 49.2 | 1.00 | 0.126 | mg/L | 8/30/19 22:18 | BB |
| Total Alkalinity by SM2320B | 162 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 468 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



Central Laboratory (P-08)
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September 05, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07071**

Wateree Well AP1-01A (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:37
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101ATDS

AP1-01

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 5.25 | 0.50 | 0.038 | mg/L | 8/29/19 22:09 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.10 | 0.008 | mg/L | 8/29/19 22:09 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 4.88 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | Less than PQL | 0.50 | 0.063 | mg/L | 8/29/19 22:09 | BB |
| Total Alkalinity by SM2320B | 5.4 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 43 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07072**

Wateree Well AP1-03D2 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:45
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103D2TDS

AP1-03D

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 18.3 | 0.50 | 0.038 | mg/L | 8/29/19 22:09 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.10 | 0.008 | mg/L | 8/29/19 22:09 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 5.97 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 70.0 | 0.50 | 0.063 | mg/L | 8/29/19 22:09 | BB |
| Total Alkalinity by SM2320B | 22.7 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 120 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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 Fax: (803) 217-9911

September 04, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07073**

Wateree Well AP1-12 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 11:38
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP112TDS

AP1-12

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 22.2 | 1.50 | 0.114 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 1.51 | 0.30 | 0.024 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.97 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 79.9 | 1.50 | 0.189 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 270 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 162 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 04, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07074**

Wateree Well AP1-04 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 12:00
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP104TDS

AP1-04

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 17.2 | 0.50 | 0.038 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | 0.27 | 0.10 | 0.008 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 6.65 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | Less than PQL | 0.50 | 0.063 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 477 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 439 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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September 04, 2019

| |
|---------------------------------|
| REPORT TO: |
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07075**
Wateree Well AP1-13 (NPDES/CCR)

Date & Time Sampled: August 28, 2019 12:34
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP13TDS

AP1-12

Login Record File: 190829001

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|---|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Chlorides by IC EPA 300.0 | 22.7 | 3.00 | 0.228 | mg/L | 8/30/19 16:24 | BB |
| Fluoride by IC EPA 300.0 | Less than PQL | 0.30 | 0.024 | mg/L | 8/30/19 16:24 | BB |
| pH by SM4500HB(2011) Holding Time of 15 minutes has been exceeded. | 5.97 | | | S.U. | 9/4/19 12:09 | PRC |
| Sulfates by IC EPA 300.0 | 153 | 3.00 | 0.378 | mg/L | 8/30/19 16:24 | BB |
| Total Alkalinity by SM2320B | 184 | 0.50 | 0.50 | mg/L | 9/4/19 12:09 | PRC |
| Total Dissolved Solid-SM2540C | 417 | 2.0 | 2.0 | mg/L | 9/3/19 10:01 | PRC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: 



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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07076**

Wateree Well AP1-01 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 12:40
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101TM

AP1-01

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.292 | ppb | 9/4/19 08:04 | MC |
| Barium by ICP-OES 200.7 | 267 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 2260 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 68900 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | Less than PQL | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 25100 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 3.5 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 9830 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 55300 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capers



Central Laboratory (P-08)
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 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07077**

Wateree Well AP1-11 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 13:50
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11TM

AP1-11

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 874 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 175 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1720 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 75000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 84.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 15100 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 33.2 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 8380 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 44300 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capers



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September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07079**

Wateree Well AP1-11D TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 14:35
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11DTM

AP1-11D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 222 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 71.7 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less Than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 548 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less Than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 26000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 8.9 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 14.6 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 5380 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 5030 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 21500 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less Than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Copem



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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07080**

Wateree Well AP1-03 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:00
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103TM

AP1-03

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 600 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 188 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 937 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 64600 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 32.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 12700 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 10.4 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 7140 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 32000 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cooper



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 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07081**

Wateree Well AP1-11D2 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:30

Date & Time Submitted: August 28, 2019 15:39

Collected by: A.HILL

Location Code: WAAP11D2TM

AP1-11D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_MS 200.8 | 1.6 | 1.0 | 0.292 | ppb | 9/4/19 08:04 | MC |
| Barium by ICP-OES 200.7 | 160 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | 2.4 | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | Less Than PQL | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less Than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 2260 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 5.8 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | 1.2 | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 17.5 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 999 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 5420 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 12600 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less Than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capuz



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September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07082**

Wateree Well AP1-03D TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 16:05
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103DTM

AP1-03D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 971 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 54.1 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 775 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 35100 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 3.7 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 5.0 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 7210 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 21.8 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 6350 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 24700 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less Than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capen



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September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07083**

Wateree Well AP1-10 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 17:20
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP10TM

AP1-10

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 264 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 168 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1430 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 60200 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 2.0 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 40.9 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 17400 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 17.0 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 7510 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 39800 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cooper



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September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07093**

Wateree Well AP1-01A TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:37
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101ATM

AP1-01

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_MS 200.8 | Less than PQL | 1.0 | 0.292 | ppb | 9/4/19 08:40 | MC |
| Barium by ICP-OES 200.7 | 48.3 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less Than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | Less Than PQL | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 529 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | 1.28 | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | Less Than PQL | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 924 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | Less than PQL | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | Less Than PQL | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 3010 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cooper



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07094**

Wateree Well AP1-03D2 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:45

Date & Time Submitted: August 28, 2019 15:39

Collected by: A.HILL

Location Code: WAAP103D2TM

AP1-03D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.292 | ppb | 9/4/19 08:40 | MC |
| Barium by ICP-OES 200.7 | 45.8 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less Than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 600 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less Than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 11500 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | 11.8 | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | 13.4 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 2750 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | 5480 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 26600 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | 0.564 | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Copps



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07095**

Wateree Well AP1-12 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 11:30
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP12TM

AP1-12

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_OES 200.7 | 271 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 150 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1740 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less Than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 93000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | 12.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 11600 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 49.0 | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | 10600 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 19400 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cohen



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07076**

Wateree Well AP1-01 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 12:40
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101TM

AP1-01

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_MS 200.8 | 0.43 (J) | 1.0 | 0.292 | ppb | 9/4/19 08:04 | MC |
| Barium by ICP-OES 200.7 | 267 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 2260 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 68900 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | 0.49 (J) | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 0.08 (J) | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | Less than MDL | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 25100 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 3.5 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 9830 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 55300 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Michelle Cochran



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07077**

Wateree Well AP1-11 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 13:50
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11TM

AP1-11

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 874 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 175 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1720 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 75000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | 0.40 (J) | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 0.99 (J) | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 84.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 15100 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 33.2 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 8380 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 44300 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____





Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07078**

Wateree Well AP1-02 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 13:54
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP102TM

AP1-02

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_MS 200.8 | 55.8 | 1.0 | 0.292 | ppb | 9/4/19 08:04 | MC |
| Barium by ICP-OES 200.7 | 183 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 595 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 44500 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 2.0 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 15800 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 7.6 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 5500 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 25500 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capoz



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07079**

Wateree Well AP1-11D TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 14:35
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP11DTM

AP1-11D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 222 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 71.7 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | 0.48 (J) | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 548 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | 0.04 (J) | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 26000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 8.9 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 14.6 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 5380 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 0.65 (J) | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 5030 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 21500 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | 0.22 (J) | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____





Central Laboratory (P-08)
 2102 North Lake Drive
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 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07080**

Wateree Well AP1-03 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:00

Date & Time Submitted: August 28, 2019 15:39

Collected by: A.HILL Location Code: WAAP103TM

AP1-03

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 600 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 188 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 937 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 64600 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | 0.45 (J) | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 0.18 (J) | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | 0.11 (J) | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 32.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 12700 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 10.4 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 7140 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 32000 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____





Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07081**

Wateree Well AP1-11D2 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 15:30

Date & Time Submitted: August 28, 2019 15:39

Collected by: A.HILL

Location Code: WAAP11D2TM

AP1-11D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | 0.12 (J) | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_MS 200.8 | 1.6 | 1.0 | 0.292 | ppb | 9/4/19 08:04 | MC |
| Barium by ICP-OES 200.7 | 160 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | 2.4 | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 118.00 (J) | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | 0.05 (J) | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 2260 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | 0.55 (J) | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 5.8 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | 1.2 | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 17.5 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 999 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 0.14 (J) | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 5420 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 12600 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | 0.29 (J) | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____

Michele C. H.



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07082**

Wateree Well AP1-03D TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 16:05
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103DTM

AP1-03D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 971 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 54.1 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 775 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 35100 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 3.7 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 5.0 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 7210 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 21.8 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 6350 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 24700 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | 0.12 (J) | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____





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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07083**

Wateree Well AP1-10 TM (NPDES/CCR)

Date & Time Sampled: August 27, 2019 17:20
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP10TM

AP1-10

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:04 | MC |
| Arsenic by ICP_OES 200.7 | 264 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 168 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1430 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:04 | MC |
| Calcium EPA 200.7 | 60200 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | 0.44 (J) | 1.0 | 0.345 | ppb | 9/4/19 08:04 | MC |
| Cobalt by ICP_MS 200.8 | 2.0 | 1.0 | 0.072 | ppb | 9/4/19 08:04 | MC |
| Lead by ICP-MS 200.8 | 0.09 (J) | 1.0 | 0.085 | ppb | 9/4/19 08:04 | MC |
| Lithium (CWA) 200.7 | 40.9 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 17400 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 17.0 | 1.0 | 0.111 | ppb | 9/4/19 08:04 | MC |
| Potassium EPA 200.7 | 7510 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:04 | MC |
| Sodium EPA 200.7 | 39800 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:04 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____

Mitchell Coch



Central Laboratory (P-08)
 2102 North Lake Drive
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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07093**

Wateree Well AP1-01A TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:37
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP101ATM

AP1-01

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_MS 200.8 | Less than MDL | 1.0 | 0.292 | ppb | 9/4/19 08:40 | MC |
| Barium by ICP-OES 200.7 | 48.3 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | 0.17 (J) | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 58.50 (J) | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 529 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | 0.59 (J) | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | 1.28 | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | 1.30 (J) | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 924 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | Less than MDL | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | 818.00 (J) | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 3010 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: *Michelle Cook*



Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07094**

Wateree Well AP1-03D2 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 10:45
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP103D2TM

AP1-03D

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_MS 200.8 | 0.35 (J) | 1.0 | 0.292 | ppb | 9/4/19 08:40 | MC |
| Barium by ICP-OES 200.7 | 45.8 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | 1.20 (J) | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 600 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | 0.21 (J) | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 11500 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | 11.8 | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | 0.26 (J) | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | 13.4 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 2750 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 0.18 (J) | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | 5480 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 26600 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | 0.564 | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: _____





Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 12, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07095**

Wateree Well AP1-12 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 11:30
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP12TM

AP1-12

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 08:40 | MC |
| Arsenic by ICP_OES 200.7 | 271 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 150 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 1740 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | 0.04 (J) | 1.0 | 0.035 | ppb | 9/4/19 08:40 | MC |
| Calcium EPA 200.7 | 93000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 08:40 | MC |
| Cobalt by ICP_MS 200.8 | 0.09 (J) | 1.0 | 0.072 | ppb | 9/4/19 08:40 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 08:40 | MC |
| Lithium (CWA) 200.7 | 12.7 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 11600 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/12/19 11:01 | PRC |
| Molybdenum - EPA 200.8 | 49.0 | 1.0 | 0.111 | ppb | 9/4/19 08:40 | MC |
| Potassium EPA 200.7 | 10600 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 08:40 | MC |
| Sodium EPA 200.7 | 19400 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 08:40 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Matt Cook



Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07096**

Wateree Well AP1-04 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 12:08
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP104TM

AP1-04

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:14 | MC |
| Arsenic by ICP_MS 200.8 | 22.9 | 1.0 | 0.292 | ppb | 9/4/19 09:14 | MC |
| Barium by ICP-OES 200.7 | 196 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 2560 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:14 | MC |
| Calcium EPA 200.7 | 117000 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 09:14 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 09:14 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:14 | MC |
| Lithium (CWA) 200.7 | Less than PQL | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 22900 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 09:14 | MC |
| Potassium EPA 200.7 | 8710 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 09:14 | MC |
| Sodium EPA 200.7 | 19400 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 09:14 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capon



Central Laboratory (P-08)
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 Tel: (803)217-9384
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September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: BA07097

Wateree Well AP1-13 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 12:14
 Date & Time Submitted: August 28, 2019 15:39
 Collected by: A.HILL Location Code: WAAP13TM

AP1-12

Login Record File: 190829002

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:14 | MC |
| Arsenic by ICP_OES 200.7 | 878 | 20.0 | 4.104 | ppb | 9/5/19 10:07 | MC |
| Barium by ICP-OES 200.7 | 93.5 | 10.0 | 1.113 | ppb | 9/5/19 09:06 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 09:06 | MC |
| Boron - EPA 200.7 | 467 | 200 | 38.458 | ppb | 9/5/19 09:06 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:14 | MC |
| Calcium EPA 200.7 | 35400 | 500 | 83.8 | ppb | 9/5/19 09:06 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 09:14 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 09:14 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:14 | MC |
| Lithium (CWA) 200.7 | 28.8 | 2.0 | 0.758 | ppb | 9/5/19 09:06 | MC |
| Magnesium EPA 200.7 | 9340 | 50 | 18.7 | ppb | 9/5/19 09:06 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 4.7 | 1.0 | 0.111 | ppb | 9/4/19 09:14 | MC |
| Potassium EPA 200.7 | 5670 | 1000 | 310 | ppb | 9/5/19 09:06 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 09:14 | MC |
| Sodium EPA 200.7 | 18400 | 1000 | 254 | ppb | 9/5/19 09:06 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 09:14 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capone



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
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September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: BA07117

Wateree Well AP1-05 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:35
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP105TM

AP1-05

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:33 | MC |
| Arsenic by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.292 | ppb | 9/4/19 09:33 | MC |
| Barium by ICP-OES 200.7 | 224 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | Less Than PQL | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:33 | MC |
| Calcium EPA 200.7 | 14400 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 09:33 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 09:33 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:33 | MC |
| Magnesium EPA 200.7 | 12600 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | 0.52 | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | Less than PQL | 1.0 | 0.111 | ppb | 9/4/19 09:33 | MC |
| Nickel by ICP_MS 200.8 | 1.1 | 1.0 | 0.314 | ppb | 9/4/19 09:33 | MC |
| Potassium EPA 200.7 | 2020 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 09:33 | MC |
| Sodium EPA 200.7 | 22200 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 09:33 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capue



Central Laboratory (P-08)
 2102 North Lake Drive
 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07118**

Wateree Well AP1-09 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:58

Date & Time Submitted: August 29, 2019 14:40

Collected by: A.HILL

Location Code: WAAP109TM

AP1-09

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:33 | MC |
| Arsenic by ICP_OES 200.7 | 2030 | 20.0 | 4.104 | ppb | 9/5/19 10:40 | MC |
| Barium by ICP-OES 200.7 | 180 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 926 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:33 | MC |
| Calcium EPA 200.7 | 57100 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.345 | ppb | 9/4/19 09:33 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 1.0 | 0.072 | ppb | 9/4/19 09:33 | MC |
| Lead by ICP-MS 200.8 | Less than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:33 | MC |
| Magnesium EPA 200.7 | 12700 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 24.2 | 1.0 | 0.111 | ppb | 9/4/19 09:33 | MC |
| Nickel by ICP_MS 200.8 | 1.5 | 1.0 | 0.314 | ppb | 9/4/19 09:33 | MC |
| Potassium EPA 200.7 | 7070 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | Less than PQL | 5.0 | 2.06 | ppb | 9/4/19 09:33 | MC |
| Sodium EPA 200.7 | 32100 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 09:33 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capers



Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07119**

Wateree Well AP1-08 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:50
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP108TM

AP1-01

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:40 | MC |
| Arsenic by ICP_MS 200.8 | 2.9 | 1.0 | 0.292 | ppb | 9/4/19 09:40 | MC |
| Barium by ICP-OES 200.7 | 224 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less Than PQL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 200 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:40 | MC |
| Calcium EPA 200.7 | 17300 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | 1.3 | 1.0 | 0.345 | ppb | 9/4/19 09:40 | MC |
| Cobalt by ICP_MS 200.8 | Less Than PQL | 2.0 | 0.144 | ppb | 9/6/19 15:13 | MC |
| Lead by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:40 | MC |
| Magnesium EPA 200.7 | 19500 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 09:40 | MC |
| Nickel by ICP_MS 200.8 | 2.8 | 1.0 | 0.314 | ppb | 9/4/19 09:40 | MC |
| Potassium EPA 200.7 | 3530 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | 8.6 | 5.0 | 2.06 | ppb | 9/4/19 09:40 | MC |
| Sodium EPA 200.7 | 18300 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |
| Thallium by ICP-MS 200.8 | Less than PQL | 0.5 | 0.071 | ppb | 9/4/19 09:40 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Cooper



Central Laboratory (P-08)
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 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 10, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07120**

Wateree Well AP1-09D TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:54
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP109DTM

AP1-09D

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than PQL | 1.0 | 0.090 | ppb | 9/4/19 09:40 | MC |
| Arsenic by ICP_MS 200.8 | 38.3 | 1.0 | 0.292 | ppb | 9/4/19 09:40 | MC |
| Barium by ICP-OES 200.7 | 38.6 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than PQL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 931 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than PQL | 1.0 | 0.035 | ppb | 9/4/19 09:40 | MC |
| Calcium EPA 200.7 | 27800 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | Less than PQL | 1.0 | 0.345 | ppb | 9/4/19 09:40 | MC |
| Cobalt by ICP_MS 200.8 | 17.4 | 1.0 | 0.072 | ppb | 9/6/19 15:13 | MC |
| Lead by ICP-MS 200.8 | Less Than PQL | 1.0 | 0.085 | ppb | 9/4/19 09:40 | MC |
| Magnesium EPA 200.7 | 5840 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than PQL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | Less Than PQL | 1.0 | 0.111 | ppb | 9/4/19 09:40 | MC |
| Nickel by ICP_MS 200.8 | 16.7 | 1.0 | 0.314 | ppb | 9/4/19 09:40 | MC |
| Potassium EPA 200.7 | 7470 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | 5.7 | 5.0 | 2.06 | ppb | 9/4/19 09:40 | MC |
| Sodium EPA 200.7 | 26200 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |
| Thallium by ICP-MS 200.8 | 0.51 | 0.5 | 0.071 | ppb | 9/4/19 09:40 | MC |

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Phillip Capers



Central Laboratory (P-08)
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 Columbia, SC 29212
 Tel: (803)217-9384
 Fax: (803) 217-9911

September 17, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: BA07117

Wateree Well AP1-05 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:35
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP105TM

AP1-05

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 09:33 | MC |
| Arsenic by ICP_MS 200.8 | 0.79 (J) | 1.0 | 0.292 | ppb | 9/4/19 09:33 | MC |
| Barium by ICP-OES 200.7 | 224 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 186.00 (J) | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 09:33 | MC |
| Calcium EPA 200.7 | 14400 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | 0.69 (J) | 1.0 | 0.345 | ppb | 9/4/19 09:33 | MC |
| Cobalt by ICP_MS 200.8 | 0.57 (J) | 1.0 | 0.072 | ppb | 9/4/19 09:33 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 09:33 | MC |
| Lithium (CWA) 200.7 | Less than MDL | 2.0 | 0.758 | ppb | 9/17/19 14:59 | MC |
| Magnesium EPA 200.7 | 12600 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | 0.52 | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | Less than MDL | 1.0 | 0.111 | ppb | 9/4/19 09:33 | MC |
| Nickel by ICP_MS 200.8 | 1.1 | 1.0 | 0.314 | ppb | 9/4/19 09:33 | MC |
| Potassium EPA 200.7 | 2020 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 09:33 | MC |
| Sodium EPA 200.7 | 22200 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |



Sample ID: BA07117

September 17, 2019

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 09:33 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: *Mitchell Cohen*



Central Laboratory (P-08)
 2102 North Lake Drive
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 Tel: (803)217-9384
 Fax: (803) 217-9911

September 17, 2019

| REPORT TO: |
|-----------------|
| Rashida Marlowe |
| Rocky Archer |

Sample ID: **BA07118**

Wateree Well AP1-09 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 13:58

Date & Time Submitted: August 29, 2019 14:40

Collected by: A.HILL Location Code: WAAP109TM

AP1-09

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 09:33 | MC |
| Arsenic by ICP_OES 200.7 | 2030 | 20.0 | 4.104 | ppb | 9/5/19 10:40 | MC |
| Barium by ICP-OES 200.7 | 180 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 926 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 09:33 | MC |
| Calcium EPA 200.7 | 57100 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | 0.39 (J) | 1.0 | 0.345 | ppb | 9/4/19 09:33 | MC |
| Cobalt by ICP_MS 200.8 | 0.26 (J) | 1.0 | 0.072 | ppb | 9/4/19 09:33 | MC |
| Lead by ICP-MS 200.8 | Less than MDL | 1.0 | 0.085 | ppb | 9/4/19 09:33 | MC |
| Lithium (CWA) 200.7 | 13.9 | 2.0 | 0.758 | ppb | 9/17/19 14:59 | MC |
| Magnesium EPA 200.7 | 12700 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 24.2 | 1.0 | 0.111 | ppb | 9/4/19 09:33 | MC |
| Nickel by ICP_MS 200.8 | 1.5 | 1.0 | 0.314 | ppb | 9/4/19 09:33 | MC |
| Potassium EPA 200.7 | 7070 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | Less than MDL | 5.0 | 2.06 | ppb | 9/4/19 09:33 | MC |
| Sodium EPA 200.7 | 32100 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |



Sample ID: BA07118

September 17, 2019

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 09:33 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Mitchell Cook



Central Laboratory (P-08)
 2102 North Lake Drive
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 Fax: (803) 217-9911

September 17, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07119**

Wateree Well AP1-08 TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:50
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP108TM

AP1-01

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 09:40 | MC |
| Arsenic by ICP_MS 200.8 | 2.9 | 1.0 | 0.292 | ppb | 9/4/19 09:40 | MC |
| Barium by ICP-OES 200.7 | 224 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | 0.73 (J) | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 200 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 09:40 | MC |
| Calcium EPA 200.7 | 17300 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | 1.3 | 1.0 | 0.345 | ppb | 9/4/19 09:40 | MC |
| Cobalt by ICP_MS 200.8 | 1.70 (J) | 2.0 | 0.144 | ppb | 9/6/19 15:13 | MC |
| Lead by ICP-MS 200.8 | 0.34 (J) | 1.0 | 0.085 | ppb | 9/4/19 09:40 | MC |
| Lithium (CWA) 200.7 | 2.4 | 2.0 | 0.758 | ppb | 9/17/19 14:59 | MC |
| Magnesium EPA 200.7 | 19500 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 0.19 (J) | 1.0 | 0.111 | ppb | 9/4/19 09:40 | MC |
| Nickel by ICP_MS 200.8 | 2.8 | 1.0 | 0.314 | ppb | 9/4/19 09:40 | MC |
| Potassium EPA 200.7 | 3530 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | 8.6 | 5.0 | 2.06 | ppb | 9/4/19 09:40 | MC |
| Sodium EPA 200.7 | 18300 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |



Sample ID: BA07119

September 17, 2019

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Thallium by ICP-MS 200.8 | Less than MDL | 0.5 | 0.071 | ppb | 9/4/19 09:40 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

Approved By: Michelle Cole



Central Laboratory (P-08)
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 Fax: (803) 217-9911

September 17, 2019

| REPORT TO: |
|---------------------------------|
| Rashida Marlowe Rocky Archer |

Sample ID: **BA07120**

Wateree Well AP1-09D TM (NPDES/CCR)

Date & Time Sampled: August 28, 2019 14:54
 Date & Time Submitted: August 29, 2019 14:40
 Collected by: A.HILL Location Code: WAAP109DTM

AP1-09D

Login Record File: 190829006

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|---------------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Antimony by ICP-MS 200.8 | Less than MDL | 1.0 | 0.090 | ppb | 9/4/19 09:40 | MC |
| Arsenic by ICP_MS 200.8 | 38.3 | 1.0 | 0.292 | ppb | 9/4/19 09:40 | MC |
| Barium by ICP-OES 200.7 | 38.6 | 10.0 | 1.113 | ppb | 9/5/19 10:25 | MC |
| Beryllium EPA 200.7 | Less than MDL | 2.0 | 0.148 | ppb | 9/5/19 10:25 | MC |
| Boron - EPA 200.7 | 931 | 200 | 38.458 | ppb | 9/5/19 10:25 | MC |
| Cadmium by ICP_MS EPA 200.8 | Less than MDL | 1.0 | 0.035 | ppb | 9/4/19 09:40 | MC |
| Calcium EPA 200.7 | 27800 | 500 | 83.8 | ppb | 9/5/19 10:25 | MC |
| Chromium by ICP_MS 200.8 | Less than MDL | 1.0 | 0.345 | ppb | 9/4/19 09:40 | MC |
| Cobalt by ICP_MS 200.8 | 17.4 | 1.0 | 0.072 | ppb | 9/6/19 15:13 | MC |
| Lead by ICP-MS 200.8 | 0.10 (J) | 1.0 | 0.085 | ppb | 9/4/19 09:40 | MC |
| Lithium (CWA) 200.7 | 6.1 | 2.0 | 0.758 | ppb | 9/17/19 14:59 | MC |
| Magnesium EPA 200.7 | 5840 | 50 | 18.7 | ppb | 9/5/19 10:25 | MC |
| Mercury (CWA) by EPA 245.2 | Less than MDL | 0.2 | 0.071 | ppb | 9/10/19 16:00 | PRC |
| Molybdenum - EPA 200.8 | 0.48 (J) | 1.0 | 0.111 | ppb | 9/4/19 09:40 | MC |
| Nickel by ICP_MS 200.8 | 16.7 | 1.0 | 0.314 | ppb | 9/4/19 09:40 | MC |
| Potassium EPA 200.7 | 7470 | 1000 | 310 | ppb | 9/5/19 10:25 | MC |
| Selenium by ICP-MS 200.8 | 5.7 | 5.0 | 2.06 | ppb | 9/4/19 09:40 | MC |
| Sodium EPA 200.7 | 26200 | 1000 | 254 | ppb | 9/5/19 10:25 | MC |



Sample ID: BA07120

September 17, 2019

| CERTIFIED BY SCDHEC (LAB ID 32006): | Result | Reporting Limit(PQL) | Detection Limit(MDL) | Units | Completed Analysis Date & Time | Chemist |
|--|--------|-------------------------|-------------------------|-------|-----------------------------------|---------|
| Thallium by ICP-MS 200.8 | 0.51 | 0.5 | 0.071 | ppb | 9/4/19 09:40 | MC |

A result marked by "J" is an estimated result that is less than the Reporting Limit and greater than or equal to the Detection Limit. The "J" value is not to be used for regulatory or compliance reporting.

If there are any questions concerning this sample, please contact the lab at (803) 217-9384.

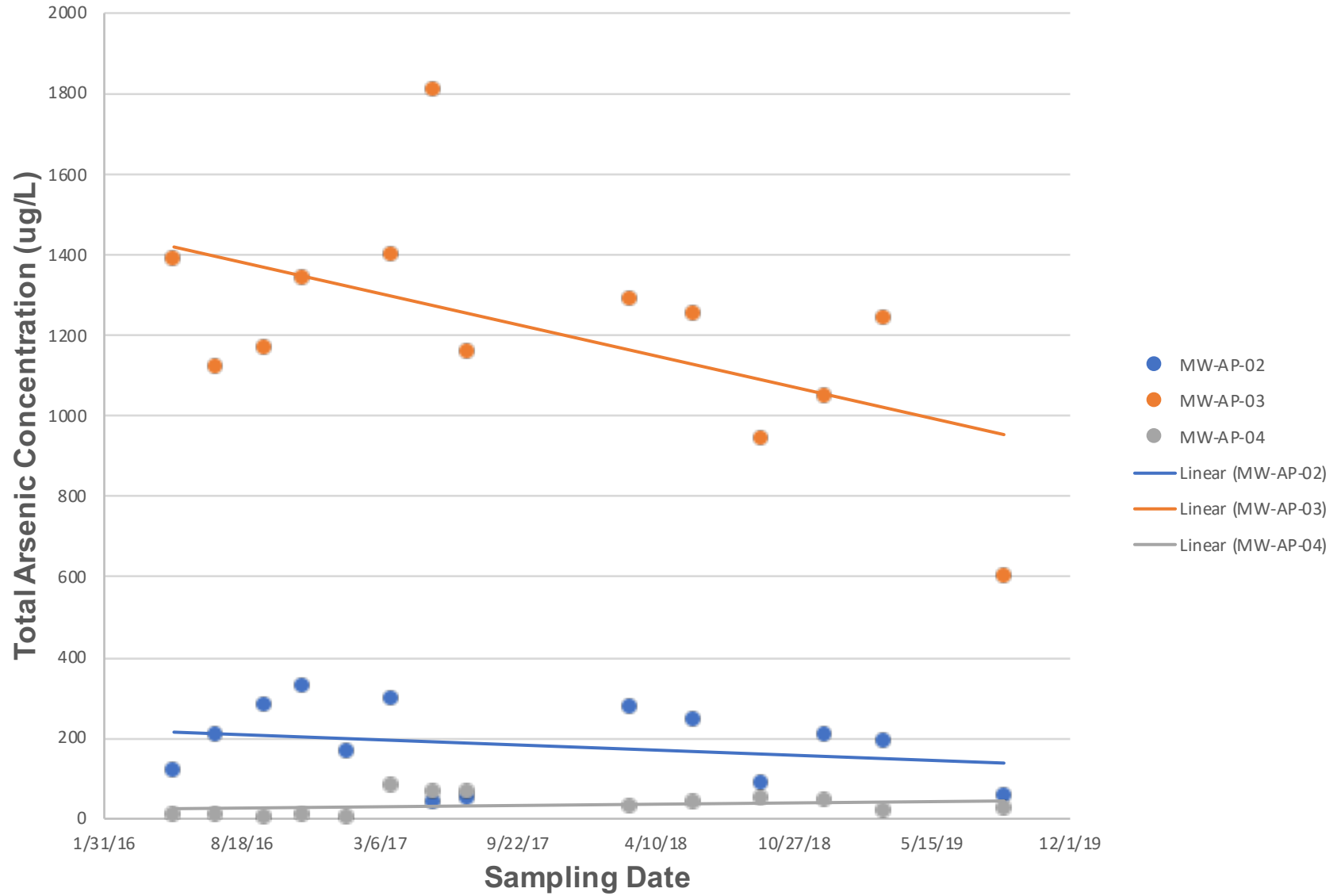
Approved By: Michelle Cook



APPENDIX B

**Graphs of Total Arsenic and Lithium Concentrations in Groundwater
vs. Time**

Total Arsenic Concentration vs. Time



Total Lithium Concentration vs. Time

