2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GREENE COUNTY
ASH POND

January 31, 2020

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

CERTIFICATION STATEMENT

This *Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Greene County Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D) and ADEM Admin. Code Ch. 335-13-15 under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama's ADEM Admin. Code Ch. 335-13-15, this 2019 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2019 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for Plant Greene County Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6). The following summarizes results obtained from 2019 groundwater monitoring activities at the site:

- The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018.

- Statistically significant levels (SSLs) of Appendix IV parameters above groundwater protection standards (GWPS) have been identified during the 2019 semiannual monitoring events. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7). The ACM was subsequently submitted to the Agency and posted to the site's CCR compliance web site.

- The CCR Unit concluded the monitoring period in assessment monitoring and is evaluating potential groundwater remedies identified in the ACM. The following monitoring-related activities are planned for the CCR Unit:

    - Installation, sampling, and analyses of additional (Phase II) delineation wells,

    - Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM; and

    - Conduct the first semi-annual assessment monitoring event in the April or May of 2020 and submit a semi-annual groundwater monitoring report summarizing findings by July 31, 2020.

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ABBREVATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	Alabama Power Company Environmental Laboratory
BGS	below ground surface
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
COC	chain of custody
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MSL	mean sea level
MW-	denotes “Monitoring Well”
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SM	Standard Method(s)
SSI	statistically significant increase
SSL	statistically significant level
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama's ADEM Admin. Code Ch. 335-13-15, this 2019 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2019 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for Plant Greene County Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

2.0 SITE LOCATION AND DESCRIPTION

Alabama Power Company's Plant Greene County is in southeastern Greene County, Alabama. The physical address is 801 Steam Plant Road, Forkland, Alabama 36740. Plant Greene County lies in portions of Sections 21 and 28, Township 19 North, Range 3 East, based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983). The Ash Pond is located south of the main plant along the Black Warrior River to the south and the barge canal to the east. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area. The Ash Pond went into service in 1964 and is approximately 474 acres in size.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

2.1.1 Physical Setting

Plant Greene County is located in the Alluvial-deltaic Plain district of the East Gulf Coastal Plain physiographic province (Sapp and Emplaincourt, 1975). This province consists primarily of flat to gently rolling sandy uplands dissected by deeply entrenched, south to southwest flowing streams and rivers (Dejarnette and Crownover, 1987). Topography at the site gently dips radially from the plant proper and northern portions of the ash pond to the barge canal and Black Warrior River. The lowest elevations are approximately 60 feet above mean sea level (MSL) at the northern and southern boundaries, near the Black Warrior River, and along the eastern boundary near the coal docks (barge canal). Away from the river, in the central upland portion of the property, elevations typically range from approximately 80 to 100 feet MSL. The embankment elevations that form the perimeter of the ash pond are generally between 90 and 95 feet MSL. **Figure 2, Site Topographic Map**, provides the topography of the site.

Plant Greene County is located along a bend of the Black Warrior River. The river flows to the east across the northern property boundary, turns to the south east of the plant, and then flows to the west across the plant's southern and southeastern boundary. East of the ash pond, a barge access canal was constructed to service the plant. The barge canal trends north to south and connects to the Black Warrior River near the southeastern corner of the ash pond.

2.1.2 Geology and Hydrogeology

The geology of the site is characterized by a sequence of poorly consolidated Mesozoic sedimentary strata unconformably overlying Paleozoic rocks of the Appalachian thrust belt. Mesozoic strata are Cretaceous in age, and in descending stratigraphic order they include the Demopolis Chalk, the Mooreville Chalk, the

Eutaw Formation, the McShan Formation, the Gordo Formation, and the Coker Formation. These Cretaceous strata are generally flat-lying and dip to the southwest at approximately 35 ft per mile (or less than two degrees). At Plant Greene County, the Cretaceous sequence is approximately 2,500 ft thick (McIntyre et al., 2010). Quaternary alluvium and low-terrace deposits overlie the Mesozoic strata along stream and river valleys (McIntyre et al., 2010). **Figure 3**, **Site Geologic Map**, illustrates the surface geology at the site and neighboring areas.

Near the site, the geology consists of Quaternary alluvium deposits overlying Cretaceous Demopolis and Mooreville Chalk formations. Alluvial deposits at the site generally consist of reddish brown to reddish yellow, lean clay overlying reddish brown to tan, poorly-graded sands with interbedded lenses of gravel and clay. The alluvial overburden is between 20 to 30 feet thick in the north and 40 to 60 ft thick in the south. The base of the alluvium/top of bedrock occurs between approximately 60 and 80 ft above mean sea level (MSL) on the northern side of the pond, and approximately 40 and 20 ft above MSL towards the southern edge of the pond. Chalk that was encountered during field investigations was described as bluish green to gray clay-like material. The Demopolis Chalk is a fossiliferous chalk. The Mooreville Chalk ranges from a clayey chalk to chalky marl. Both chalk formations are low-permeability strata that retard vertical migration of groundwater in the area (Wahl, 1966). The vertical extent of these formations was not drilled during field investigations, but a search of area well logs stored on the Geological Survey of Alabama's website indicates that the thickness of the Mooreville and Demopolis Chalk formations are likely around 300 to 400 ft at Plant Greene County. **Figure 4**, **Geologic Cross-Section A-A',** illustrates the geologic layering beneath the site.

In Greene County, groundwater is available in sand and gravel aquifers of the Cretaceous Eutaw, McShan, Gordo, and Coker Formations. These Cretaceous aquifers have a combined thickness of approximately 1000 ft beneath southern Greene County and exist between depths of approximately 400 to 1400 ft BGS (Wahl, 1966). Quaternary alluvial and low-terrace deposits also produce sufficient groundwater for domestic or livestock uses. These deposits can be upwards of 80 ft in thickness near present-day streams or rivers and consist of clay, sand, and gravel. Groundwater occurs in the sands and gravels of these alluvial deposits. The Quaternary alluvial and low-terrace deposits are hydraulically separated from deeper Cretaceous aquifers by the low-permeability, confining Mooreville and Demopolis Chalk formations. These units confine underlying aquifers and limit downward percolation of water from the alluvial and low-terrace aquifers (Wahl, 1966). As described above, these formations are believed to be approximately 300 to 400 ft thick at Plant Greene County.

2.1.3 Uppermost Aquifer

The uppermost aquifer beneath the site corresponds to alluvial and low terrace deposits in which groundwater occurs in the coarser sand and gravel intervals of Unit 2. At the site, the uppermost aquifer pertains to Unit 2 and is described as a fining upward reddish brown to tan, fine to coarse sand. Unit 2 typically fines upward into more of a clayey sand and near the base coarsens with gravel. Gravel deposits are more prevalent south of the pond and closer to the present-day Black Warrior River. Depth to the uppermost aquifer generally occurs between 10 and 20 feet BGS and is 10 to 15 feet thick near the northern area of the pond and 15 to 30 feet thick near the southern edge of the pond. Aquifer performance testing (slug tests) revealed horizontal hydraulic conductivity values between 1.68×10^{-3} cm/sec and 8.29×10^{-2} cm/sec with an average of 1.83×10^{-2} cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day. Horizontal hydraulic values are typically highest to the south in zones where gravels are present (150 to 235 ft/day) and lowest in more clayey intervals (4.76 ft/day). Clean, fine to medium sands at the site generally provide horizontal hydraulic conductivity values between 25 feet per day and 35 feet per day.

The uppermost aquifer can be described as semi-confined at the site. Unit 1 clays, where present, provide an upper confining to semi-confining layer for the uppermost aquifer. Vertical hydraulic conductivity (K_z) values obtained from Shelby tube permeameter testing range from 7.8×10^{-6} cm/sec to 8.0×10^{-8} cm/sec (2.2×10^{-2} ft/d to 2.3×10^{-4} ft/d) with an average of 1.7×10^{-6} cm/sec (4.9×10^{-3} ft/d) for Unit 1 clays. The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower confining unit. Vertical hydraulic conductivity (K_z) values obtained from two Shelby tube permeameter tests provide values of 5.0×10^{-8} cm/sec and 1.4×10^{-8} cm/sec (1.42×10^{-4} ft/d to 3.97×10^{-5} ft/d) for Unit 3 chalks.

Groundwater recharge to the uppermost aquifer is largely accomplished via infiltration of precipitation and subsequent percolation down to the water table. Recharge rates are estimated to occur between 9% and 15% of precipitation and thus, are estimated at 5-6 inchers per year of recharge with an overall range 1 to 8 inches. Temporary recharge to the aquifer may occur during high stage or flood events of the Black Warrior River where surface water may infiltrate via hydraulically connected sand beds or infiltration of flooded water. Locally, the uppermost aquifer is hydraulically separated from deeper Cretaceous aquifer systems by 300 to 400 ft of low-permeability chalk exhibiting a permeability in the 10^{-8} centimeters/second range.

2.1.4 Flow Interpretation

Groundwater flow is accomplished via porous (Darcy) flow mechanics with potential for preferential movement along more conductive sand and gravel lenses. Groundwater flow at the site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Groundwater flows from higher topographic elevations near the northernmost edge of the ash pond towards surface water bodies to the north, east, and south-southeast. A topographic high southwest of the pond, provides a localized mound where groundwater elevations are higher than neighboring monitoring wells. In this area, groundwater flow may be towards the Greene County Ash Pond at points in the year or proximal to a no flow zone.

In general, groundwater elevation data indicates that water levels tend to be higher in the early spring/summer and lower during the fall and winter seasons. Groundwater elevations fluctuate in response to rainfall and fluctuations in the Black Warrior River. Seasonal variations of 2 to 13 feet are typical at the site. Fluctuations are typically greater in magnitude at wells closer to surface water bodies to the southeast and east of the Greene County Ash Pond and lower in magnitude to the north and northwest.

2.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Greene County has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Plant Greene County Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient, or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

Monitoring wells were screened in the Watercourse Aquifer. The Watercourse Aquifer is comprised of Quaternary alluvial and low terrace deposits consisting of interbedded sand, gravel, and clay (USGS, 1988). The monitoring systems are designed to monitor water quality as groundwater flows laterally from north to south across the site. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers”, ASTM Subcommittee D18.21, as a guideline.

2.2.1 Monitoring Wells

The detection/compliance groundwater monitoring network is comprised of 29 monitoring wells. Monitoring well locations and piezometers are presented on **Figure 5, Monitoring Well Location Map**.

Table 1 Groundwater Monitoring Well Network Details, summarizes the monitoring well construction details and design purpose for the Plant Greene County Ash Pond.

2.2.1.1 Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) a screening of Appendix III CCR indicator parameters for apparently elevated concentrations.

Monitoring well locations GC-AP-MW-23, GC-AP-MW-24, and GC-AP-MW-26 through GC-AP-MW-30 serve as upgradient locations for the Ash Pond. Upgradient wells are located northeast and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site and are separated hydraulically by no flow zones or the Greene County barge canal. Historically, monitoring wells GC-AP-MW-11, GC-AP-MW-12, and GC-AP-MW-21 were included in the upgradient pool for statistical analyses. Following a review of historical data, upgradient monitoring wells GC-AP-MW-11, GC-AP-MW-12, and GC-AP-MW-21 are now designated as downgradient wells.

2.2.1.2 Downgradient Wells

Monitoring well locations GC-AP-MW-1 through GC-AP-MW-3, GC-AP-MW-5 through GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, and GC-AP-MW-31 through GC-AP-MW-33 are utilized as downgradient locations for the Ash Pond. Downgradient locations are located north, south, east, and west of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site.

2.2.1.3 Piezometers

Locations GC-AP-PZ-19, GC-AP-PZ-22, and GC-AP-MW-37H are utilized as water-level only piezometers. The piezometers are utilized to enhance groundwater potentiometric surfaces and constrain flow direction. Delineation monitoring well GC-AP-MW-37H did not produce sufficient water to allow for development or sampling. In future sampling events GC-AP-MW-37H will be utilized for water level data only. GC-AP-PZ-22 is planned to be abandoned as this piezometer is predominantly dry.

2.2.1.4 Monitoring Well Replacement and Abandonment

No monitoring well replacements or abandonments were conducted at the site in 2019.

2.2.1.5 Delineation Well Installation

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-GW, additional wells were installed to characterize the horizontal extent of GWPS exceedances identified during assessment monitoring. Eleven horizontal delineation wells, GC-AP-MW-34HA, and GC-AP-MW-35H through GC-AP-MW-44H, were installed and sampled to assess lateral extent of groundwater impact in the direction(s) of groundwater flow away from the facility. One existing piezometer, GC-AP-PZ-4, was also utilized for horizontal delineation. Delineation monitoring well GC-AP-MW-37H did not produce sufficient water to allow for development or sampling. In future sampling events GC-AP-MW-37H will be utilized for water level data only. Vertical delineation wells were not needed at the site because the uppermost aquifer is confined at its base by 300 to 400 feet of low-permeability chalk exhibiting a permeability in the 10^{-8} centimeters/second range. Delineation wells are identified on **Figure 5**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

An additional phase of delineation was initiated in the latter part of 2019. Twelve additional horizontal delineation wells were proposed in a plan submitted to the Department in August 2019. To date, six wells have been installed (GC-AP-MW-45H, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-53H, GC-AP-MW-54H, and GC-AP-MW-56H). The remaining well locations are proposed for off-site and will be installed upon receiving permission to access. At the time of publication, data for these wells was not available or in draft format. A report summarizing finding will be submitted to the Department by March 31, 2020.

2.2.1.6 Monitoring Variances

The groundwater monitoring program at the site is operating under a Variance granted by the Department on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

1. retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter; and
2. authorizes the use of Federally-published groundwater protection standards (GWPS) of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

2.2.2 Groundwater Monitoring History

Background groundwater monitoring was performed at the site from February 2016 through June 2017. Semi-annual compliance monitoring began in August 2017.

2.2.2.1 Available Monitoring Data

In accordance with §257.94(b), eight (8) independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background sampling was performed over the period of February 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, Alabama Power initiated an assessment monitoring program on January 15, 2018. Pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a), monitoring wells were sampled for all Appendix IV parameters in February 2018, within 90 days of initiating the assessment monitoring program. Semi-annual assessment sampling continued with sampling events in June and November of 2018 and March and September 2019.

Tables summarizing analytical data from all previous groundwater monitoring events are included within **Appendix A, Groundwater Analytical Data**.

2.2.2.2 Historical Groundwater Flow

Historical potentiometric data from the site show that groundwater flow generally is a subdued representation of topography. Groundwater flows from higher topographic elevations near the northernmost edge of the ash pond towards surface water bodies to the north, east, and south-southeast. Groundwater elevations fluctuate in response to rainfall and fluctuations in the Black Warrior River. Seasonal variations of 2 to 13 feet are typical at the site. Fluctuations are typically greater in magnitude at wells closer to surface water bodies to the southeast and east of the Greene County Ash Pond and lower in magnitude to the north and northwest.

2.2.3 Groundwater Sampling and Analysis

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding year. The Plant Greene County Ash Pond

entered an Assessment Monitoring program pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a) in January 2018. Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS and the site entered into Assessment of Corrective Measures.

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-GW additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. These wells along with the compliance monitoring well network are sampled semi-annually.

2.2.3.1 Sampling Event Summary

Semi-annual Assessment Monitoring sampling events occurred in March and September 2019. Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each assessment monitoring event. Analytical data from the groundwater monitoring events is included as **Appendix B, Laboratory and Field Records,** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

2.2.3.2 Groundwater Sample Collection

Prior to recording water levels and collecting samples each well was opened and allowed to equilibrate to atmospheric pressure. Within a 24-hour period, depths to groundwater were measured to the nearest 0.01 foot with an electronic water level indicator with depth referenced from the top of the inner PVC well casing. Groundwater elevations were calculated by subtracting the depth to groundwater from surveyed top-of-casing (TOC) elevations.

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Greene County are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures whereby samples are collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) were measured to determine stabilization. Groundwater samples were collected when the following stabilization criteria were met:

- 0.2 standard units for pH
- 5% for specific conductance
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater)

- Turbidity measurements less than 5 NTU
- Temperature and ORP – record only, no stabilization criteria

During purging and sampling a SmarTroll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities for the monitoring events are included in **Appendix B**.

2.2.3.3 Sample Preservation and Handling

Groundwater samples were collected within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 4°C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

2.2.3.4 Chain of Custody

A chain-of-custody (COC) record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports included in **Appendix B.**

2.2.3.5 Laboratory Analysis

Laboratory analyses was performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Eurofins TestAmerica (TAL), of Pensacola, Florida and St. Louis, Missouri. Both APCEL and TAL are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed**. Table 2, Monitoring Parameters and Reporting Limits**, lists Assessment Monitoring constituents analyzed at the site. Groundwater data and chain of custody records for the monitoring events are presented in **Appendix B**.

3.0 GROUNDWATER DATA EVALUATION

3.1 GROUNDWATER ELEVATION DATA EVALUATION

During the March 2019 sampling event, depths to water ranged from 4.88 to 31.59 feet below top of casing and groundwater elevations ranged from 99.76 to 76.54 feet above mean seal level (ft MSL). During the September 2019 sampling event, depths to water ranged from 5.90 to 35.48 ft BTOC and groundwater elevations ranged from 97.75 to 73.77 ft MSL. **Figure 6, Potentiometric Surface Contour Map (March 25, 2019)** and **Figure 7, Potentiometric Surface Contour Map (September 9, 2019)** depict groundwater elevations and inferred groundwater flow direction from higher elevation to lower. As shown on Figures 6 and 7 groundwater flow is towards the south with components of flow towards the north, west, and east also observed. Groundwater elevation data from delineation monitor well GC-AP-MW-38H is not included in the potentiometric surface contour maps. The monitor well was installed in an area of perched water located along the barge canal and adjacent to monitor well GC-AP-MW-17. All available groundwater elevation data has been tabulated and included in **Table 3, Groundwater Elevations Summary**.

3.2 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, hydraulic conductivity ranges from 1.68×10^{-3} cm/sec to 8.29×10^{-2} cm/sec with an average of 1.83×10^{-2} cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day, which is used in the flow calculations. An effective porosity of 25% was used based on the default values for effective porosity recommended by EPA for a silty sand-type soil (U.S. USEPA, 1996). The hydraulic gradient was calculated between well pairs shown on **Table 4, Horizontal Groundwater Flow Velocity Calculation**.

Horizontal flow velocity was calculated using the commonly-used derivative of Darcy's Law:

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

Where:

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

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Using this equation, groundwater flow velocity is calculated for various areas of the site and is tabulated on **Table 4**. **Table 4** presents the estimated horizontal flow velocity calculated using groundwater elevation data from the sampling events in 2019.

4.0 EVALUATION OF GROUNDWATER QUALITY DATA

4.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every group of 10 well samples. Equipment blanks and duplicate samples were also collected during each sampling event.

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples are used as measure of laboratory precision. Where field duplicates are collected, the RPD between the sample and duplicate sample is calculated as:

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the relative percent differences below 20%, the difference is considered acceptable and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 5, Relative Percent Difference Calculations,** provides the relative percent differences for sample and sample duplicates during 2019 sampling events. All RPD's were below 20% for the most recent sampling event. Similarly, there were no detected constituents in field or equipment blanks at the site and validation was not required.

4.2 STATISTICAL METHODOLOGY AND TESTS

The Sanitas Groundwater statistical software is used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

4.2.1 Appendix III Evaluation

Interwell prediction limits, combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. The most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation. Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in the background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

4.2.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA – this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance Limit (i.e. background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The UTLs were then used as the GWPS.

As described in 40 CFR § 257.95(h)(1)-(3) and the ADEM Variance, the GWPS is:

(1) The maximum contaminant level (MCL) established under 40 CFR § 141.62 and 141.66.
(2) Where an MCL has not been established:
    (i) Cobalt 0.006 mg/L;
    (ii) Lead 0.015 mg/L;
    (iii) Lithium 0.040 mg/L; and
    (iv) Molybdenum 0.100 mg/L.
(3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

In assessment monitoring, when the Lower Confidence Limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Appendix IV constituents will be updated every two years beginning with the most recent event (Fall 2019). The next update to GWPS will occur no earlier than the Fall of 2021. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

4.3 STATISTICAL EXCEEDANCES

Analytical data from the 2019 semi-annual monitoring events in March and September were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017) and updated in September 2019 data screening evaluation performed by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

4.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C, Statistical Analysis** Appendix III constituents have not returned to background levels.

4.3.2 Appendix IV Constituents

Table 6, Summary of Background Levels and Groundwater Protection Standards summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix C, Statistical Analysis.**

Statistical analysis of Appendix IV data identified the following statistically significant levels (SSLs) over GWPS at the listed wells during both the first and second semi-annual monitoring events:

- GC-AP-MW-1: Arsenic, Cobalt
- GC-AP-MW-5: Arsenic, Lithium
- GC-AP-MW-10: Arsenic, Lithium
- GC-AP-MW-11: Cobalt, Lithium
- GC-AP-MW-12: Lithium
- GC-AP-MW-13: Lithium
- GC-AP-MW-14: Arsenic, Lithium
- GC-AP-MW-15: Lithium
- GC-AP-MW-16: Arsenic, Lithium
- GC-AP-MW-17: Arsenic, Lithium

- GC-AP-MW-18: Arsenic, Lithium
- GC-AP-MW-21: Lithium

Table 7, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event.

Limited groundwater analytical data is available for delineation wells installed at the site in 2019; therefore, groundwater quality is simply compared to the GWPS. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the second semi-annual sampling event:

- GC-AP-MW-39H: Lithium
- GC-AP-MW-40H: Lithium
- GC-AP-MW-42H: Cobalt
- GC-AP-MW-43H: Lithium
- GC-AP-MW-44H: Cobalt
- GC-AP-PZ-4: Cobalt

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to the Department in a Groundwater Investigation Report on May 13, 2019. **Table 8, Second Semi-Annual Monitoring Event Analytical Summary**, provides a summary of all detected constituents for the second semi-annual sampling event.

To address SSLs at the site an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, cobalt, and lithium in groundwater at the site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-097-GW. The ACM was submitted to the Department and placed in the operating record on June 12, 2019.

5.0 MONITORING PROGRAM STATUS

The site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. In accordance with § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an ACM as required by § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-097-GW.

6.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events took place in March and September 2019. Statistical evaluations of the 2019 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. The site remains in assessment monitoring while groundwater corrective remedies are being evaluated. Additional monitoring wells were installed to assess the horizontal and vertical extent of groundwater impacts at the site. The results of this investigation were submitted to ADEM in May 2019. These additional monitoring wells will continue to be sampled and analyzed as part of the ongoing assessment monitoring program.

An ACM was completed on June 12, 2019 to address SSLs of Appendix IV above groundwater protection standards.

The following future actions will be taken or are recommended for the site:

- Installation, sampling, and analyses of additional (Phase II) delineation wells,
- Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM; and
- Conduct the first semi-annual assessment monitoring event in the April or May of 2020 and submit a semi-annual groundwater monitoring report summarizing findings by July 31, 2020.

7.0 REFERENCES

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ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org

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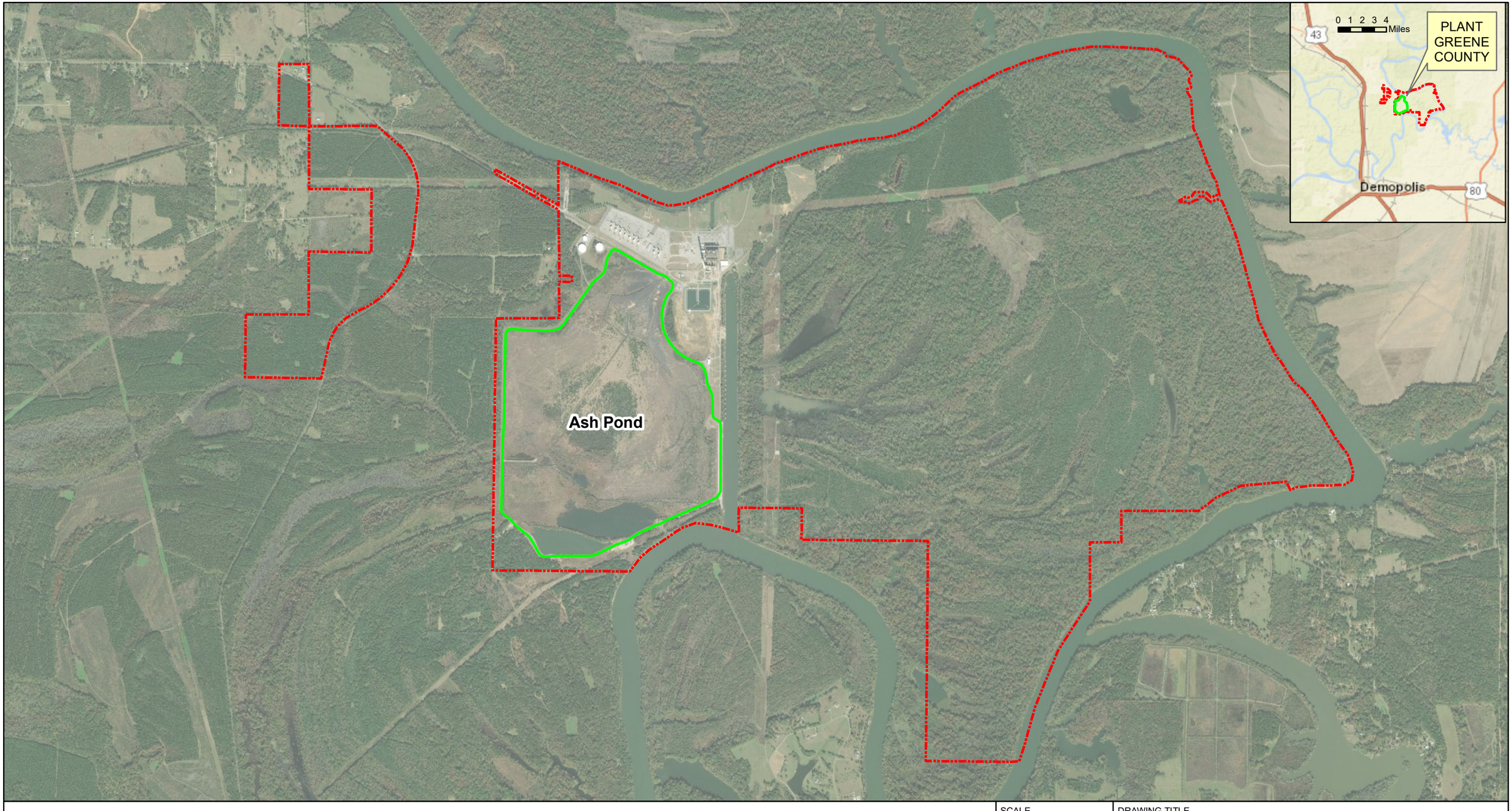
Figures



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary

N

0 1,000 2,000 4,000 6,000 8,000 Feet

SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KWR
CHECKED BY	GBD

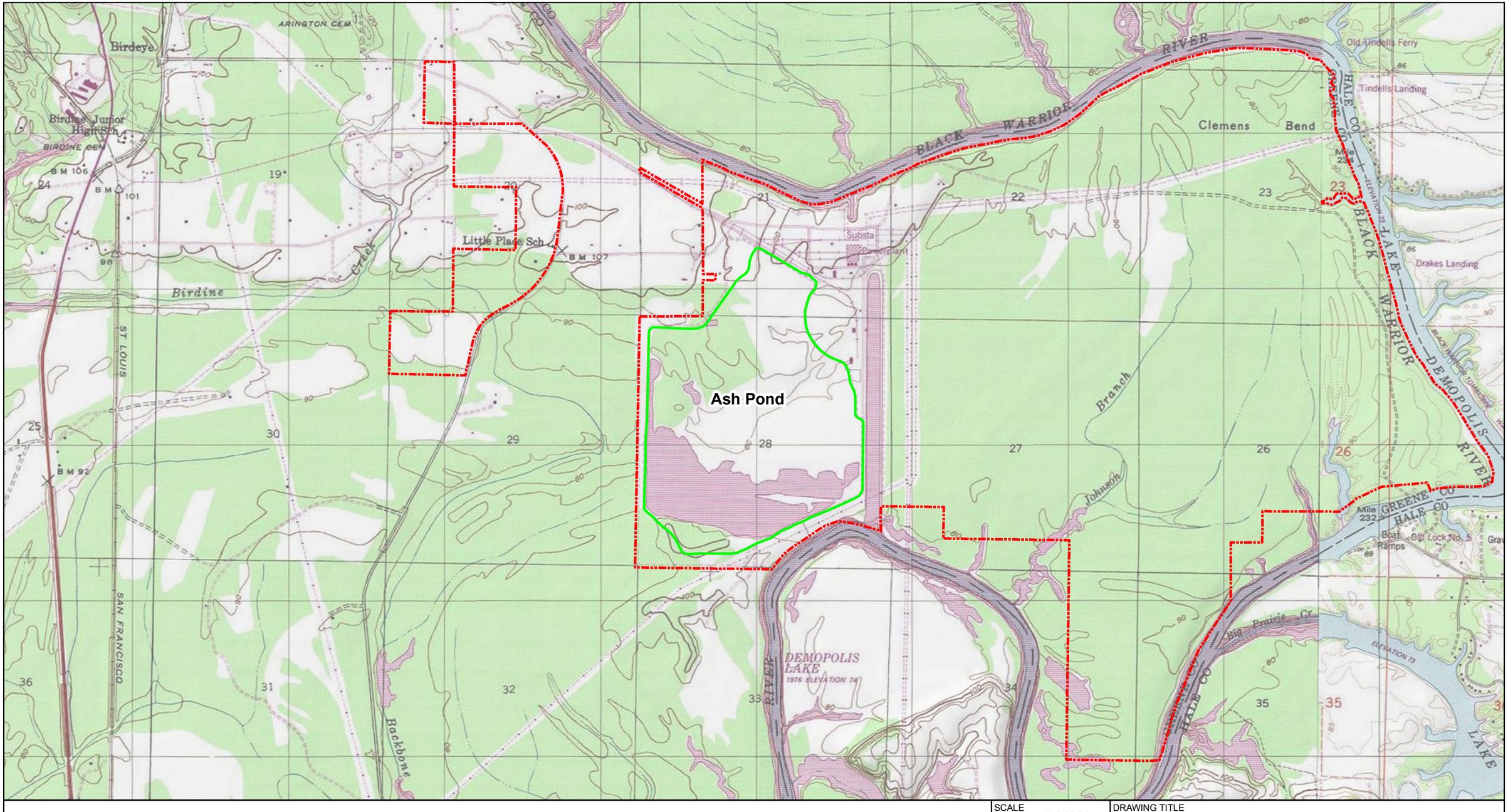
DRAWING TITLE

SITE LOCATION MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 1

Southern Company



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary

N

0 1,000 2,000 4,000 6,000 8,000 Feet

SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KAR
CHECKED BY	GBD

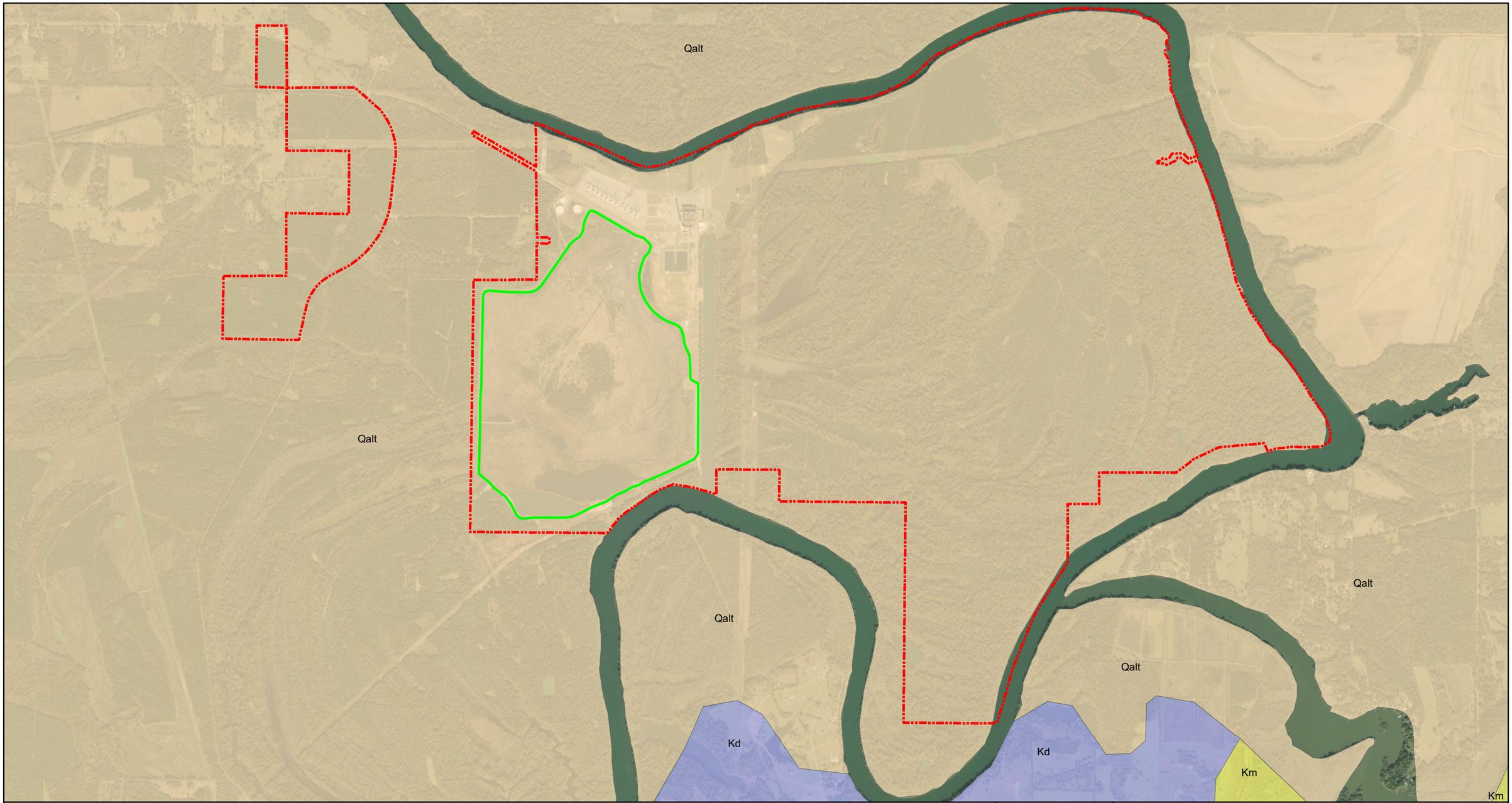
DRAWING TITLE

SITE TOPOGRAPHIC MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 2

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Unit

- Alluvial, coastal, and low terrace deposits (Qalt)
- Demopolis Chalk (Kd)
- Mooreville Chalk (Km)

N

0 1,000 2,000 4,000 6,000 8,000 Feet

SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KWR
CHECKED BY	GBD

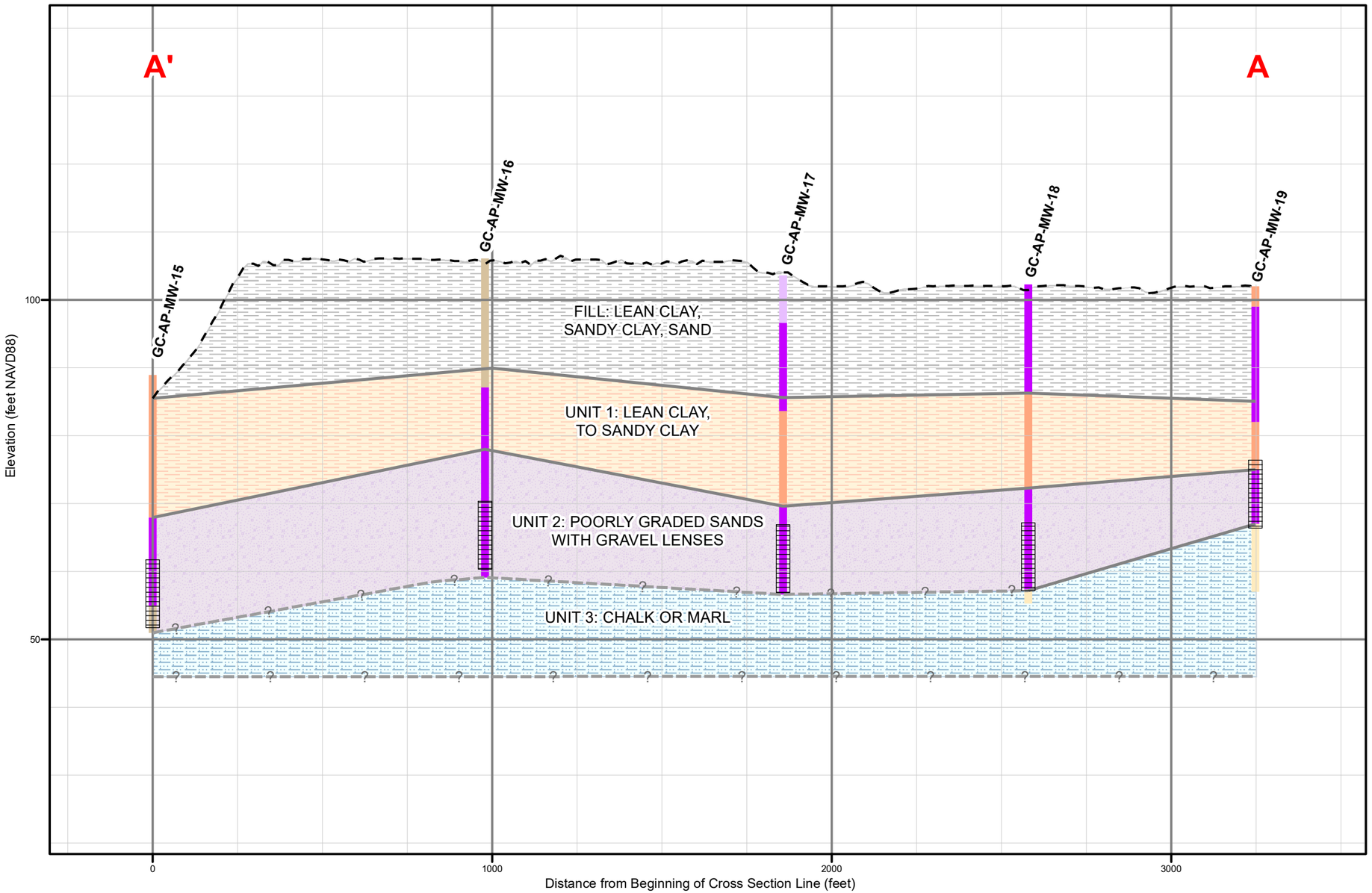
DRAWING TITLE

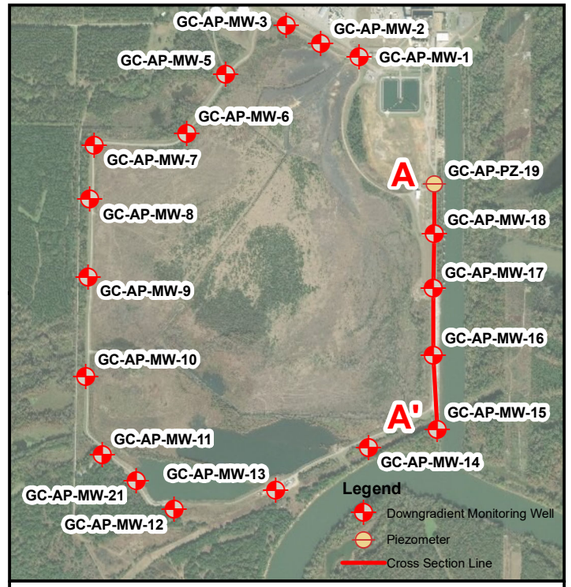
SITE GEOLOGIC MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 3

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.

Legend

- Screen Interval
- Ground Surface Elevation
- Unit Boundary (inferred)
- Unit Boundary

Borehole Description

- Fat Clay
- Lean Clay
- Clayey Sand
- Well graded sand
- Poorly graded sand

Geologic Units

- Fill: Lean Clay, Sandy Clay, Sand
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	1/9/2020
DRAWN BY	KWR
CHECKED BY	GBD

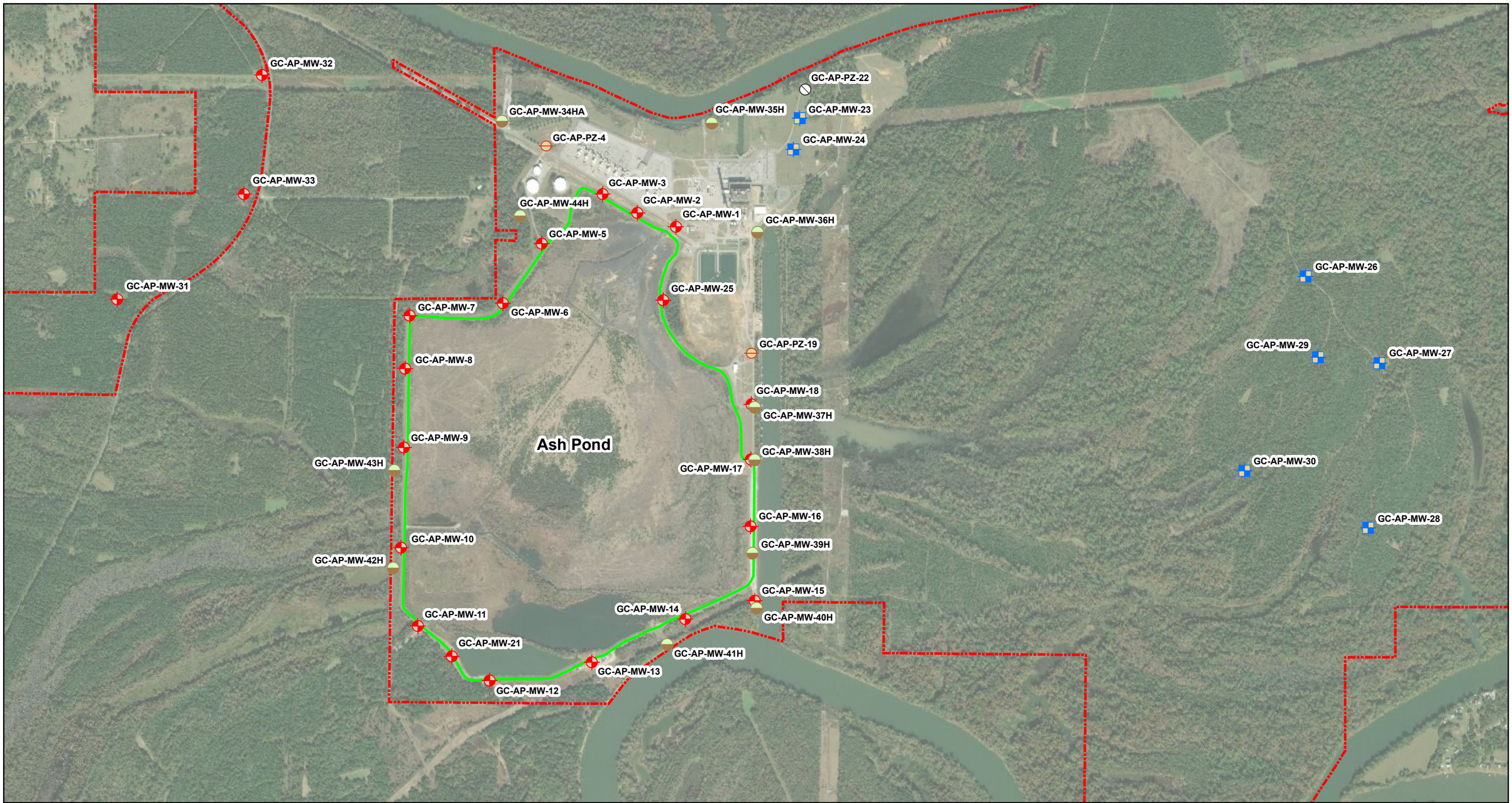
DRAWING TITLE

GEOLOGIC CROSS SECTION A - A'
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 4

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Piezometer
- To be Abandoned
- Ash Pond Boundary
- Property Boundary

N

0 1,000 2,000 4,000 Feet

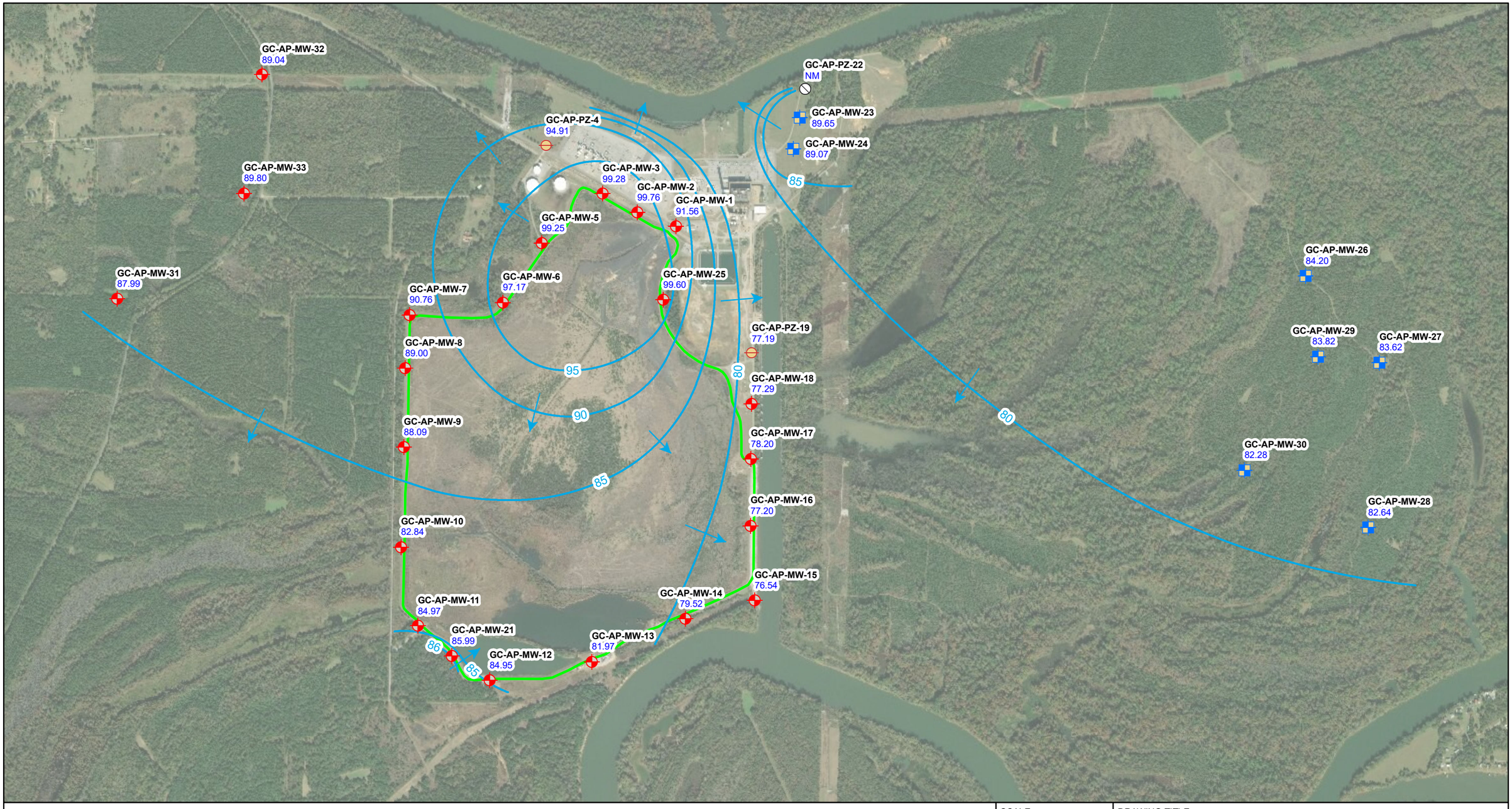
SCALE	1:15000
DATE	12/19/2019
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE

MONITORING WELL LOCATION MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO **FIGURE 5**

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Piezometer to be Abandoned
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary

GN-AP-MW-1 Well ID
91.56 Groundwater Elevation

N

0 1,000 2,000 4,000 Feet

NOTES:
1. NAVD88 indicated North American Vertical Datum of 1988.
2. NM indicates not measured.

SCALE	1:15000
DATE	1/14/2020
DRAWN BY	KWR
CHECKED BY	GBD

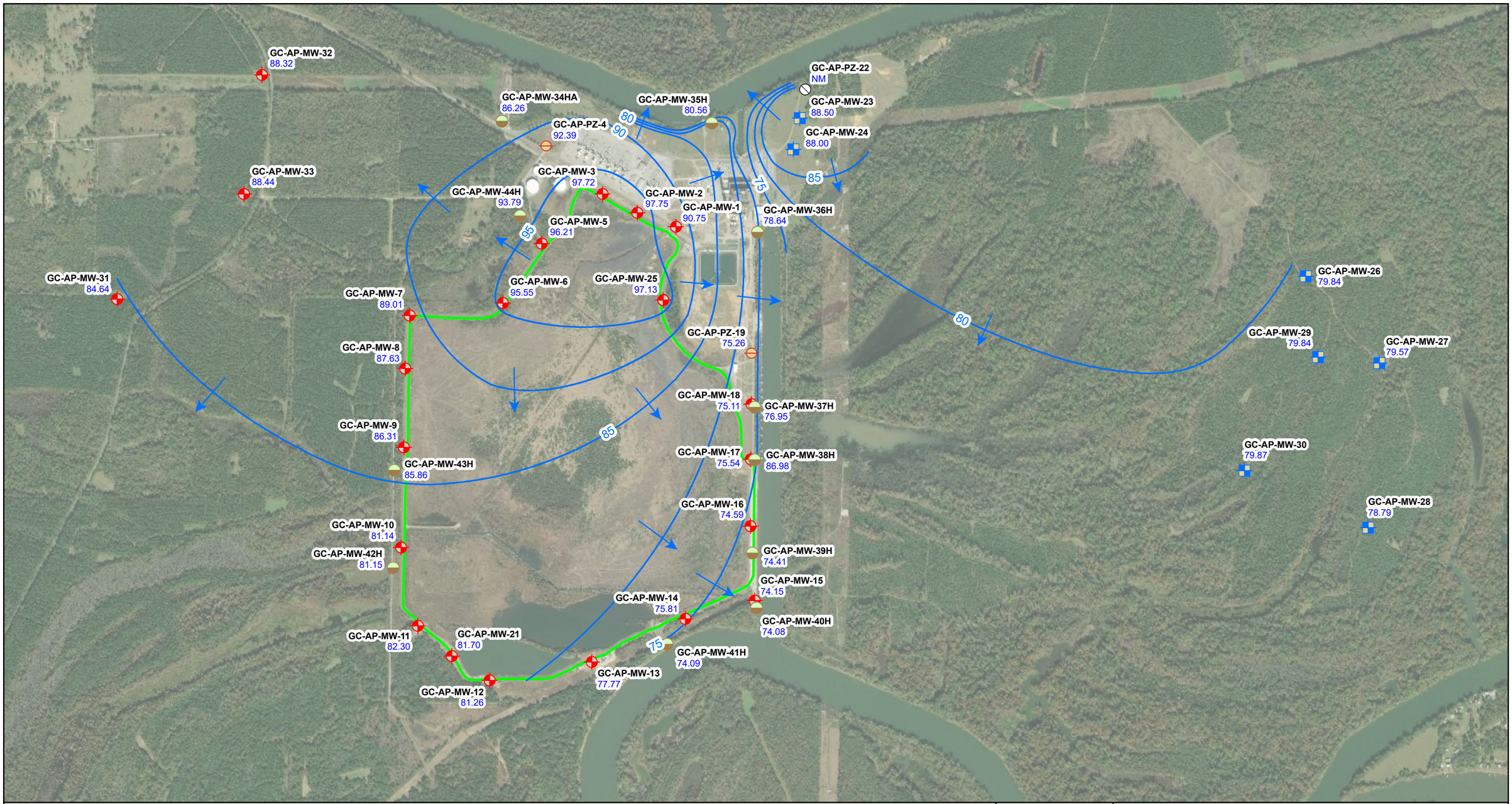
DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 25, 2019 PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 6

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Piezometer
- Piezometer to be Abandoned

GN-AP-MW-1 Well ID
90.75 Groundwater Elevation

- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary

N

0 1,000 2,000 4,000 Feet

NOTES:
1. NAVD88 indicates North American Vertical Datum of 1988.
2. NM indicates not measured.
2. GC-AP-MW-38H* was excluded from potentiometric surface calculation due to possible perched-water-table condition.

SCALE	1:15000
DATE	1/13/2020
DRAWN BY	KWR/KAR
CHECKED BY	GBD

DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP SEPTEMBER 9, 2019 PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 7

Southern Company

Tables

Table 1.
Groundwater Monitoring Well Network Details

Well Name	Purpose	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Well Depth (ft.) Below Top of Casing	Top of Screen Elevation (ft MSL)	Bottom of Screen Elevation (ft MSL)	Screen Length
GC-AP-MW-1	Downgradient	8/26/2015	946143.297	1880857.028	104.22	107.79	29.14	88.25	78.25	10
GC-AP-MW-2	Downgradient	8/26/2015	946323.533	1880347.563	103.16	106.14	23.68	92.06	82.06	10
GC-AP-MW-3	Downgradient	5/7/2013	946568.571	1879894.379	103.51	106.39	27.00	88.99	78.99	10
GC-AP-PZ-4	Horizontal Delineation	5/7/2013	947204.503	1879154.956	100.47	103.53	27.60	85.53	75.53	10
GC-AP-MW-5	Downgradient	8/25/2015	945917.84	1879095.668	105.71	108.43	27.08	90.95	80.95	10
GC-AP-MW-6	Downgradient	8/25/2015	945140.014	1878584.369	98.42	102.05	30.30	81.35	71.35	10
GC-AP-MW-7	Downgradient	5/7/2013	944977.22	1877360.868	95.51	98.56	32.12	76.04	66.04	10
GC-AP-MW-8	Downgradient	8/24/2015	944277.569	1877304.053	93.75	97.11	30.55	76.16	66.16	10
GC-AP-MW-9	Downgradient	5/8/2013	943241.947	1877284.987	90.23	93.19	32.42	70.37	60.37	10
GC-AP-MW-10	Downgradient	9/2/2015	941932.77	1877248.652	85.51	87.84	25.75	71.69	61.69	10
GC-AP-MW-11	Downgradient	4/23/2013	940897.093	1877469.456	97.51	101.18	38.38	72.40	62.40	10
GC-AP-MW-12	Downgradient	8/24/2015	940182.457	1878412.554	100.09	103.26	36.90	75.96	65.96	10
GC-AP-MW-13	Downgradient	4/24/2013	940427.172	1879753.177	97.43	101.18	28.71	82.07	72.07	10
GC-AP-MW-14	Downgradient	8/24/2015	940990.747	1880984.277	83.31	85.61	22.85	72.36	62.36	10
GC-AP-MW-15	Downgradient	8/27/2015	941232.938	1881890.796	89.49	91.69	41.03	60.26	50.26	10
GC-AP-MW-16	Downgradient	8/21/2015	942209.932	1881836.389	106.16	108.79	48.81	69.58	59.58	10
GC-AP-MW-17	Downgradient	8/27/2015	943088.05	1881839.487	103.60	106.40	49.84	66.16	56.16	10
GC-AP-MW-18	Downgradient	8/21/2015	943810.042	1881850.596	102.02	105.04	48.13	66.51	56.51	10
GC-AP-PZ-19	Piezometer	8/20/2015	944479.233	1881851.126	101.70	104.91	39.40	75.11	65.11	10
GC-AP-MW-21	Downgradient	12/14/2015	940504.687	1877916.557	101.00	105.72	40.52	74.80	64.80	10
GC-AP-PZ-22	Piezometer	15/15/2015	947943.764	1882552.062	101.40	104.64	15.00	96.40	86.40	10
GC-AP-MW-23	Upgradient	12/16/2015	947563.622	1882483.407	99.50	102.64	18.50	93.74	83.74	10
GC-AP-MW-24	Upgradient	5/6/2013	947157.67	1882400.523	102.94	106.05	23.20	92.45	82.45	10
GC-AP-MW-25	Downgradient	6/28/2016	945178.001	1880692.084	101.94	104.98	37.18	77.40	67.40	10
GC-AP-MW-26	Upgradient	6/28/2016	945491.521	1889126.188	86.14	89.25	34.55	64.30	54.30	10
GC-AP-MW-27	Upgradient	6/29/2016	944352.66	1890091.17	87.82	90.68	37.86	62.42	52.42	10
GC-AP-MW-28	Upgradient	6/29/2016	942188.44	1889945.138	85.66	89.36	33.45	65.51	55.51	10
GC-AP-MW-29	Upgradient	6/29/2016	944432.295	1889286.831	86.63	89.32	34.68	64.24	54.24	10
GC-AP-MW-30	Upgradient	7/8/2016	942940.257	1888318.033	87.31	89.87	35.18	64.29	54.29	10
GC-AP-MW-31	Downgradient	7/8/2016	945189.051	1873522.273	90.93	94.19	31.96	71.83	61.83	10
GC-AP-MW-32	Downgradient	7/8/2016	948130.051	1875422.344	102.90	105.85	37.51	77.94	67.94	10
GC-AP-MW-33	Downgradient	7/8/2016	946573.583	1875185.048	106.23	108.99	33.10	85.49	75.49	10
GC-AP-MW-34HA	Horizontal Delineation	1/9/2019	947527.514	1878573.474	105.35	108.38	25.56	92.42	82.42	10
GC-AP-MW-35H	Horizontal Delineation	12/21/2018	947503.629	1881329.531	99.54	102.64	23.90	88.34	78.34	10
GC-AP-MW-36H	Horizontal Delineation	1/10/2019	946066.326	1881926.925	103.18	105.17	30.33	84.44	74.44	10
GC-AP-MW-37H	Horizontal Delineation	12/17/2018	943774.159	1881890.078	103.22	106.04	30.40	85.24	75.24	10
GC-AP-MW-38H	Horizontal Delineation	12/18/2018	943075.287	1881889.095	103.49	106.58	25.40	90.78	80.78	10
GC-AP-MW-39H	Horizontal Delineation	12/18/2018	941854.434	1881862.398	106.97	109.89	53.55	65.94	55.94	10
GC-AP-MW-40H	Horizontal Delineation	12/19/2018	941130.296	1881916.855	84.52	87.53	32.26	64.87	54.87	10
GC-AP-MW-41H	Horizontal Delineation	12/19/2018	940656.171	1880742.428	82.92	86.57	30.40	65.77	55.77	10
GC-AP-MW-42H	Horizontal Delineation	12/20/2018	941659.124	1877146.453	84.86	87.56	24.90	72.26	62.26	10
GC-AP-MW-43H	Horizontal Delineation	12/20/2018	942943.704	1877162.694	89.35	91.76	28.40	72.96	62.96	10
GC-AP-MW-44H	Horizontal Delineation	1/10/2019	946279.463	1878811.348	98.76	101.13	27.38	83.35	73.35	10

1. Northing and easting are in feet relative to the State Plane Alabama West North America Datum of 1983.
2. Elevations are in feet relative to the North American vertical Datum of 1988.
3. *Piezometers are utilized for water level readings only.

Table 2.
Monitoring Parameters and Reporting Limits

Parameter	Analytical Method	Reporting Limit (Mg/L)
Appendix III Parameters		
Boron	EPA 200.7/200.8	0.05
Calcium	EPA 200.7/200.8	0.25
Chloride	EPA 300.0	2
Fluoride	EPA 300.0	0.1
pH	None	None
Sulfate	EPA 300.0	5
Total Dissolved Solids (TDS)	SM 2540C	5
Appendix IV Parameters		
Antimony	EPA 200.7/200.8	0.0025
Arsenic	EPA 200.7/200.8	0.00125
Barium	EPA 200.7/200.8	0.0025
Beryllium	EPA 200.7/200.8	0.0025
Cadmium	EPA 200.7/200.8	0.0025
Chromium	EPA 200.7/200.8	0.0025
Cobalt	EPA 200.7/200.8	0.0025
Fluoride	EPA 300.0	0.1
Lead	EPA 200.7/200.8	0.00125
Lithium	EPA 200.7/200.8	0.0025
Mercury	EPA 7470A	0.0002
Molybdenum	EPA 200.7/200.8	0.015
Selenium	EPA 200.7/200.8	0.00125
Thallium	EPA 200.7/200.8	0.0005
Radium 226 & 228 combined	EPA 9315/9320	1 pCi/L

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft)																	
		2/16/2016	4/12/2016	5/31/2016	8/15/2016	10/10/2016	10/31/2016	11/28/2016	1/3/2017	1/23/2017	3/13/2017	5/8/2017	6/27/2017	8/28/2017	2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019
GC-AP-MW-1	107.79	91.71	92.37	91.82	91.33	90.88	90.67	--	--	90.99	91.22	91.14	91.76	91.31	90.96	91.27	90.43	90.00	91.46	90.65
GC-AP-MW-2	106.14	100.75	100.88	99.97	99.94	99.46	99.30	--	--	100.40	100.08	99.62	100.00	98.97	99.78	99.29	98.90	98.83	99.67	97.66
GC-AP-MW-3	106.39	100.37	100.52	99.41	99.40	99.02	98.95	--	--	100.14	99.84	99.31	99.56	98.55	100.02	99.09	98.63	98.77	99.26	97.70
GC-AP-PZ-4	103.53	94.60	95.26	93.17	92.68	91.90	91.65	--	--	94.17	94.56	93.57	94.63	92.43	94.83	94.24	92.04	91.49	94.86	92.34
GC-AP-MW-5	108.43	100.46	100.96	98.30	98.29	97.16	96.77	--	--	100.68	100.41	98.87	99.77	96.90	100.86	99.30	97.19	96.00	99.21	96.17
GC-AP-MW-6	102.05	98.70	98.78	97.29	97.43	95.30	94.54	--	--	98.38	98.08	96.98	97.75	95.13	98.31	97.42	96.11	95.59	97.12	95.50
GC-AP-MW-7	98.56	92.12	92.51	90.50	90.10	87.24	86.29	--	--	91.64	91.60	90.35	91.34	87.79	92.00	91.05	88.18	87.67	90.75	89.00
GC-AP-MW-8	97.11	90.73	91.16	89.12	88.75	85.82	84.86	--	--	90.09	89.94	88.69	89.59	86.41	90.52	89.32	86.88	86.31	88.95	87.58
GC-AP-MW-9	93.19	89.55	89.88	88.03	87.66	84.74	83.73	--	--	89.18	88.98	87.46	88.64	85.05	89.66	88.30	85.48	85.14	88.02	86.24
GC-AP-MW-10	87.84	84.57	84.69	83.58	84.20	82.61	82.09	--	--	83.74	83.65	82.99	84.26	82.00	84.04	83.40	83.53	83.51	83.27	81.58
GC-AP-MW-11	101.18	86.37	86.58	85.77	85.52	84.30	83.92	--	--	84.90	84.66	84.25	85.26	83.76	84.97	84.87	84.43	84.09	85.01	82.34
GC-AP-MW-12	103.26	87.44	87.65	86.64	86.93	85.13	84.87	--	--	85.42	85.27	85.15	85.74	85.08	85.61	85.44	85.19	84.95	84.87	81.18
GC-AP-MW-13	101.18	83.23	83.50	81.94	82.18	80.46	80.00	--	--	80.53	81.11	80.80	84.35	80.73	82.18	81.64	80.53	80.12	81.88	77.68
GC-AP-MW-14	85.61	81.60	81.85	78.33	78.68	76.90	76.19	--	--	81.38	80.22	77.46	84.38	76.62	82.25	78.72	77.61	76.89	79.53	75.82
GC-AP-MW-15	91.69	77.93	78.29	74.64	74.74	74.04	73.83	--	--	78.63	78.13	75.00	83.64	74.42	79.93	75.90	75.07	74.75	76.55	74.16
GC-AP-MW-16	108.79	78.42	78.25	74.88	74.72	74.19	74.58	--	--	78.11	78.25	75.35	84.14	74.87	79.84	76.51	75.40	75.11	77.15	74.54
GC-AP-MW-17	106.40	78.70	78.75	74.62	74.48	73.78	73.61	--	--	78.30	78.05	75.01	83.48	74.45	79.75	76.01	75.97	74.83	76.73	74.07
GC-AP-MW-18	105.04	79.40	79.73	75.72	75.82	75.17	75.05	--	--	79.93	79.47	76.30	84.80	75.75	81.18	77.06	76.98	76.14	77.61	75.43
GC-AP-PZ-19	104.91	77.92	77.97	75.20	75.28	74.82	74.69	--	--	78.02	78.30	75.72	88.07	75.34	79.69	76.71	75.78	84.39	77.09	75.16
GC-AP-MW-21	105.72	84.55	84.69	83.72	84.18	82.20	81.95	--	--	82.68	82.35	82.15	82.84	82.01	82.55	82.45	82.16	81.93	82.62	78.33
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-23	102.64	91.35	92.17	92.14	91.38	90.98	90.82	--	--	90.84	91.39	91.42	91.84	91.72	91.53	92.05	91.18	90.79	93.01	91.86
GC-AP-MW-24	106.05	86.03	86.82	86.99	86.34	86.02	85.86	--	--	85.58	86.06	86.26	86.37	86.70	86.12	85.16	86.22	85.71	87.93	86.86
GC-AP-MW-25	104.98	86.38	86.29	84.51	85.05	83.48	82.79	--	--	85.66	85.42	84.35	86.20	83.87	85.11	84.89	85.16	83.39	84.76	82.29
GC-AP-MW-26	89.25	--	--	--	78.97	77.75	77.27	76.77	76.93	78.75	83.03	82.62	84.98	81.01	85.57	83.44	79.43	78.74	83.84	79.48
GC-AP-MW-27	90.68	--	--	--	77.49	76.31	75.86	75.34	75.53	76.94	80.17	80.74	82.75	79.35	82.41	81.37	77.83	77.05	81.79	77.74
GC-AP-MW-28	89.36	--	--	--	78.88	77.90	77.51	77.11	77.51	79.13	81.36	81.70	84.58	80.59	83.40	82.30	79.18	78.48	82.96	79.11
GC-AP-MW-29	89.32	--	--	--	83.77	82.65	82.20	81.62	81.62	83.00	86.44	87.10	89.66	85.73	89.73	87.83	84.11	83.38	88.18	84.20
GC-AP-MW-30	89.87	--	--	--	94.05	93.04	92.59	92.11	92.83	95.33	97.44	97.15	99.45	95.99	98.86	97.66	94.82	93.91	97.82	95.41
GC-AP-MW-31	94.19	--	--	--	98.01	96.76	90.22	96.06	97.09	99.05	101.65	100.88	103.35	98.66	104.17	102.60	97.92	97.48	102.50	99.15
GC-AP-MW-32	105.85	--	--	--	91.14	90.67	87.15	90.25	90.09	90.08	90.54	90.76	90.80	90.74	90.38	91.27	90.57	90.29	92.13	91.41
GC-AP-MW-33	108.99	--	--	--	84.10	83.43	92.59	82.83	82.64	83.04	83.69	84.85	84.84	84.58	83.52	84.58	83.25	82.88	85.74	84.38
GC-AP-MW-34HA	108.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86.26
GC-AP-MW-35H	102.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	80.56
GC-AP-MW-36H	105.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.64
GC-AP-MW-37H	106.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	76.95
GC-AP-MW-38H	106.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86.98
GC-AP-MW-39H	109.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.41
GC-AP-MW-40H	87.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.08
GC-AP-MW-41H	86.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.09
GC-AP-MW-42H	87.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	81.15
GC-AP-MW-43H	91.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	85.86
GC-AP-MW-44H	101.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93.79

Notes:

1. ft. AMSL - feet above mean sea level

2. -- Not Measured

Table 4.
Horizontal Groundwater Flow Velocity Calculation

SA01 2019

Source	MW-25 h_1 (ft)	MW-18 h_2 (ft)	Distance Δl (ft)	Hydraulic Gradient $\Delta h/\Delta l$ (ft/ft)	Hydraulic Conductivity K	Effective Porosity n	Calculated Groundwater Flow Velocity (ft/d)	Calculated Groundwater Flow Velocity (ft/yr)
3/25/2019	84.76	77.61	1815.0	0.00394	51.93	0.25	0.82	298.7

Source	MW-6 h_1 (ft)	MW-7 h_2 (ft)	Distance Δl (ft)	Hydraulic Gradient $\Delta h/\Delta l$ (ft/ft)	Hydraulic Conductivity K	Effective Porosity n	Calculated Groundwater Flow Velocity (ft/d)	Calculated Groundwater Flow Velocity (ft/yr)
3/25/2019	97.12	90.75	1230.0	0.00518	51.93	0.25	1.08	392.6

SA02 2019

Source	MW-25 h_1 (ft)	MW-18 h_2 (ft)	Distance Δl (ft)	Hydraulic Gradient $\Delta h/\Delta l$ (ft/ft)	Hydraulic Conductivity K	Effective Porosity n	Calculated Groundwater Flow Velocity (ft/d)	Calculated Groundwater Flow Velocity (ft/yr)
9/9/2019	82.29	75.43	1815.0	0.00378	51.93	0.25	0.79	286.6

Source	MW-6 h_1 (ft)	MW-7 h_2 (ft)	Distance Δl (ft)	Hydraulic Gradient $\Delta h/\Delta l$ (ft/ft)	Hydraulic Conductivity K	Effective Porosity n	Calculated Groundwater Flow Velocity (ft/d)	Calculated Groundwater Flow Velocity (ft/yr)
9/9/2019	95.5	89.00	1230.0	0.00528	51.93	0.25	1.10	400.7

Notes:
ft=feet
ft/d = feet/day
ft/ft = feet per foot
ft/yr = feet per year

Table 5.
Relative Percent Difference Calculations

2019 1st Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-15	**GC-AP-MW-15 DUP**	
Boron	mg/L	0.697	0.699	0.3
Calcium	mg/L	54	53.9	0.2
Chloride	mg/L	13	12.8	1.6
Fluoride	mg/L	0.113	0.119	5.2
Sulfate	mg/L	157	158	0.6
TDS	mg/L	334	342	2.4
Barium	mg/L	0.0282	0.0285	1.1
Cobalt	mg/L	0.0184	0.018	2.2
Lithium	mg/L	0.57	0.575	0.9
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-30	**GC-AP-MW-30 DUP**	
Calcium	mg/L	1.33	1.3	2.3
Chloride	mg/L	2.42	2.28	6.0
TDS	mg/L	25	27.3	8.8
Barium	mg/L	0.101	0.104	2.9
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-32	**GC-AP-MW-32 DUP**	
Calcium	mg/L	11.6	11.7	0.9
Chloride	mg/L	3.9	3.86	1.0
Sulfate	mg/L	3.24	3.22	0.6
TDS	mg/L	46.7	56	18.1
Barium	mg/L	0.0134	0.0138	2.9

Table 5.
Relative Percent Difference Calculations

2019 2nd Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-8	**GC-AP-MW-8 DUP**	
Boron	mg/L	1.82	1.85	1.6
Calcium	mg/L	91	92.8	2.0
Chloride	mg/L	56.1	55.5	1.1
Fluoride	mg/L	0.113	0.124	9.3
Sulfate	mg/L	37.4	36.9	1.3
TDS	mg/L	602	600	0.3
Barium	mg/L	0.11	0.111	0.9
Cobalt	mg/L	0.0108	0.0106	1.9
Lithium	mg/L	0.0928	0.0931	0.3
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-12	**GC-AP-MW-12 DUP**	
Boron	mg/L	0.153	0.151	1.3
Calcium	mg/L	30.5	30.4	0.3
Chloride	mg/L	10.9	10.9	0.0
Fluoride	mg/L	0.26	0.26	0.0
Sulfate	mg/L	89.3	88.7	0.7
TDS	mg/L	218	218	0.0
Barium	mg/L	0.0233	0.022	5.7
Lithium	mg/L	0.0598	0.0592	1.0
Molybdenum	mg/L	0.134	0.123	8.6
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW--18	**GC-AP-MW-18 DUP**	
Boron	mg/L	1.73	1.73	0.0
Calcium	mg/L	83.2	82.4	1.0
Chloride	mg/L	25.6	25.1	2.0
Fluoride	mg/L	0.157	0.172	9.1
Sulfate	mg/L	17.8	17.2	3.4
TDS	mg/L	406	412	1.5
Arsenic	mg/L	0.0498	0.0494	0.8
Barium	mg/L	0.101	0.0992	1.8
Cobalt	mg/L	0.0174	0.0177	1.7
Lithium	mg/L	0.408	0.409	0.2
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-33	**GC-AP-MW-33 DUP**	
Calcium	mg/L	2.17	2.17	0.0
Chloride	mg/L	4.16	4.07	2.2
Sulfate	mg/L	14.5	14.5	0.0
TDS	mg/L	69.3	67.3	2.9
Barium	mg/L	0.0824	0.0785	4.8
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-43H	**GC-AP-MW-43H DUP**	
Boron	mg/L	1.07	1.06	0.9
Calcium	mg/L	60.7	61.7	1.6
Chloride	mg/L	31.4	30.9	1.6
Fluoride	mg/L	0.127	0.12	5.7
Sulfate	mg/L	45.7	45.6	0.2
TDS	mg/L	368	364	1.1
Arsenic	mg/L	0.0124	0.0128	3.2
Barium	mg/L	0.127	0.125	1.6
Cobalt	mg/L	0.0143	0.0145	1.4
Lithium	mg/L	0.254	0.25	1.6

Table 6.
Summary of Background Levels and Groundwater Protection Standards

Analyte	Units	Background	Federal GWPS	State GWPS
Antimony	mg/L	0.003	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.347	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.001	0.005	0.005
Chromium	mg/L	0.01	0.1	0.1
Cobalt	mg/L	0.0167	0.006	0.0167
Combined Radium-226/228	pCi/L	1.88	5	5
Fluoride	mg/L	0.31; 0.159	4	4
Lead	mg/L	0.005	0.015	0.015
Lithium	mg/L	0.02	0.04	0.04
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.01	0.1	0.1
Selenium	mg/L	0.01	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

3. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h)()

4. Where two numbers are present, they denote the different background levels for each of the two semiannual monitoring events in the order that they were determined.

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**
GC-AP-MW-1	**3/27/2019**	0.488	73.8	18	0.192	5.8	1090	1910
GC-AP-MW-2	**3/27/2019**	0.138	96.1	14.8	0.089(J)	6.06	375	562
GC-AP-MW-3	**3/27/2019**	0.0316(J)	111	24.8	0.13	6.44	6.64	362
GC-AP-MW-5	**3/27/2019**	0.502	69.1	16.1	0.208	6.59	33.4	328
GC-AP-MW-6	**3/26/2019**	1.63	148	31.9	0.253	6.54	120	682
GC-AP-MW-7	**3/26/2019**	0.727	193	71	0.106	6.39	430	1100
GC-AP-MW-8	**3/26/2019**	1.81	72	39.7	0.162	6.32	21.6	546
GC-AP-MW-9	**3/26/2019**	1.14	132	25.3	0.223	6.47	138	586
GC-AP-MW-10	**3/27/2019**	1.11	71.8	17.1	0.206	6.53	66.2	347
GC-AP-MW-11	**3/27/2019**	0.298	31	14.2	0.104	6.37	83.2	211
GC-AP-MW-12	**3/26/2019**	0.111	33.7	14.5	0.196	6.95	92.3	230
GC-AP-MW-13	**3/26/2019**	0.213	34.1	4.7	0.0775(J)	6.54	92.4	198
GC-AP-MW-14	**3/27/2019**	1.33	162	14.9	0.248	6.41	335	834
GC-AP-MW-15	**3/26/2019**	0.697	54	13	0.113	6.1	157	334
GC-AP-MW-16	**3/26/2019**	1.38	90	9.27	0.316	6.34	123	481
GC-AP-MW-17	**3/26/2019**	1.74	84.7	9.52	0.573	6.52	161	516
GC-AP-MW-18	**3/26/2019**	1.63	91.5	25.4	0.192	6.3	21.3	406
GC-AP-MW-21	**3/26/2019**	0.0834(J)	32.4	17.2	0.219	6.84	92	218
GC-AP-MW-23	**3/26/2019**	Non-Detect	31.3	1.23	0.123	6.46	12.3	103
GC-AP-MW-24	**3/26/2019**	Non-Detect	32.3	6.92	Non-Detect	5.32	103	174
GC-AP-MW-25	**3/27/2019**	0.113	9.77	18.4	Non-Detect	5.27	62.4	178
GC-AP-MW-26	**3/26/2019**	Non-Detect	3.18	2	Non-Detect	5.4	6.86	36.7
GC-AP-MW-27	**3/26/2019**	Non-Detect	0.526	2.18	Non-Detect	4.96	1.66	Non-Detect
GC-AP-MW-28	**3/26/2019**	Non-Detect	2.13	1.2	Non-Detect	4.92	10.1	30
GC-AP-MW-29	**3/26/2019**	Non-Detect	0.223(J)	1.07	Non-Detect	4.97	0.594(J)	Non-Detect
GC-AP-MW-30	**3/26/2019**	Non-Detect	1.33	2.42	Non-Detect	5.16	Non-Detect	Non-Detect
GC-AP-MW-31	**3/27/2019**	Non-Detect	7.65	5.26	Non-Detect	5.95	3.55	48.7
GC-AP-MW-32	**3/27/2019**	Non-Detect	11.6	3.9	Non-Detect	6.15	3.24	46.7
GC-AP-MW-33	**3/27/2019**	Non-Detect	2.75	4.33	Non-Detect	4.68	15.1	65.3

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	**SAMPLE DATE**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**
GWPS		**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**3/27/2019**	Non-Detect	0.0267	0.0286	Non-Detect	Non-Detect	Non-Detect	0.176
GC-AP-MW-2	**3/27/2019**	Non-Detect	0.0101	0.0311	Non-Detect	Non-Detect	Non-Detect	0.0131
GC-AP-MW-3	**3/27/2019**	Non-Detect	0.00596	0.0951	Non-Detect	Non-Detect	Non-Detect	0.00463(J)
GC-AP-MW-5	**3/27/2019**	Non-Detect	0.455	0.251	Non-Detect	Non-Detect	Non-Detect	0.00614
GC-AP-MW-6	**3/26/2019**	0.00141(J)	Non-Detect	0.0682	Non-Detect	Non-Detect	Non-Detect	0.00223(J)
GC-AP-MW-7	**3/26/2019**	Non-Detect	Non-Detect	0.0796	Non-Detect	Non-Detect	Non-Detect	0.0024(J)
GC-AP-MW-8	**3/26/2019**	Non-Detect	Non-Detect	0.0911	Non-Detect	Non-Detect	Non-Detect	0.00445(J)
GC-AP-MW-9	**3/26/2019**	Non-Detect	0.00969	0.175	Non-Detect	Non-Detect	Non-Detect	0.0167
GC-AP-MW-10	**3/27/2019**	Non-Detect	0.014	0.167	Non-Detect	Non-Detect	Non-Detect	0.014
GC-AP-MW-11	**3/27/2019**	Non-Detect	0.00573	0.0678	Non-Detect	Non-Detect	Non-Detect	0.0292
GC-AP-MW-12	**3/26/2019**	0.00121(J)	Non-Detect	0.0218	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-13	**3/26/2019**	0.00219(J)	0.00251(J)	0.109	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-14	**3/27/2019**	Non-Detect	0.0264	0.0768	Non-Detect	Non-Detect	Non-Detect	0.0303
GC-AP-MW-15	**3/26/2019**	Non-Detect	Non-Detect	0.0282	Non-Detect	Non-Detect	Non-Detect	0.0184
GC-AP-MW-16	**3/26/2019**	Non-Detect	0.0952	0.0626	Non-Detect	Non-Detect	Non-Detect	0.0177
GC-AP-MW-17	**3/26/2019**	0.000897(J)	0.32	0.242	Non-Detect	Non-Detect	Non-Detect	0.0192
GC-AP-MW-18	**3/26/2019**	Non-Detect	0.0477	0.117	Non-Detect	Non-Detect	Non-Detect	0.0161
GC-AP-MW-21	**3/26/2019**	0.000964(J)	Non-Detect	0.047	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	**3/26/2019**	Non-Detect	Non-Detect	0.0295	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**3/26/2019**	Non-Detect	Non-Detect	0.0978	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**3/27/2019**	Non-Detect	Non-Detect	0.0901	Non-Detect	Non-Detect	Non-Detect	0.0114
GC-AP-MW-26	**3/26/2019**	Non-Detect	Non-Detect	0.0419	0.00092(J)	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**3/26/2019**	0.00137(J)	Non-Detect	0.0499	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**3/26/2019**	0.000975(J)	Non-Detect	0.232	Non-Detect	0.000582(J)	Non-Detect	Non-Detect
GC-AP-MW-29	**3/26/2019**	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**3/26/2019**	0.000854(J)	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**3/27/2019**	Non-Detect	Non-Detect	0.025	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**3/27/2019**	Non-Detect	Non-Detect	0.0134	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**3/27/2019**	Non-Detect	Non-Detect	0.0912	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration),
data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically
at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV							
WELL	**SAMPLE DATE**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**3/27/2019**	1.17	0.192	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	**3/27/2019**	0.77	0.089(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	**3/27/2019**	1.47	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**3/27/2019**	1.56	0.208	Non-Detect	0.0988	Non-Detect	0.00284(J)	Non-Detect	Non-Detect
GC-AP-MW-6	**3/26/2019**	0.904	0.253	Non-Detect	0.0192(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	**3/26/2019**	0.841	0.106	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	**3/26/2019**	0.507	0.162	Non-Detect	0.0537	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	**3/26/2019**	1.49	0.223	Non-Detect	0.0931	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-10	**3/27/2019**	0.988	0.206	Non-Detect	0.115	Non-Detect	0.00778(J)	Non-Detect	Non-Detect
GC-AP-MW-11	**3/27/2019**	0.564	0.104	Non-Detect	0.119	Non-Detect	0.0151	Non-Detect	Non-Detect
GC-AP-MW-12	**3/26/2019**	0.381	0.196	Non-Detect	0.0532	Non-Detect	0.11	Non-Detect	Non-Detect
GC-AP-MW-13	**3/26/2019**	0.471	0.0775(J)	Non-Detect	0.123	Non-Detect	0.0262	0.0239	0.000215(J)
GC-AP-MW-14	**3/27/2019**	1.1	0.248	Non-Detect	1.11	Non-Detect	0.0167	Non-Detect	Non-Detect
GC-AP-MW-15	**3/26/2019**	0.535	0.113	Non-Detect	0.57	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	**3/26/2019**	1.18	0.316	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	0.00041(J)
GC-AP-MW-17	**3/26/2019**	1.57	0.573	Non-Detect	0.595	Non-Detect	0.062	Non-Detect	Non-Detect
GC-AP-MW-18	**3/26/2019**	1.35	0.192	Non-Detect	0.378	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-21	**3/26/2019**	0.405	0.219	Non-Detect	0.0531	Non-Detect	0.071	Non-Detect	Non-Detect
GC-AP-MW-23	**3/26/2019**	0.315(U)	0.123	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**3/26/2019**	1.21	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00208(J)	Non-Detect
GC-AP-MW-25	**3/27/2019**	0.309(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	**3/26/2019**	0.571	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**3/26/2019**	0.498	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**3/26/2019**	1.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	**3/26/2019**	0.598	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**3/26/2019**	1.3	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**3/27/2019**	0.29(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**3/27/2019**	0.5	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**3/27/2019**	1.83	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

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2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**
GC-AP-MW-1	**9/10/2019**	0.398	147	18.1	0.179	5.88	992	1740
GC-AP-MW-2	**9/9/2019**	0.157	111	14	0.163	6.13	385	666
GC-AP-MW-3	**9/9/2019**	0.035(J)	98.5	23.8	0.121	6.22	6.56	371
GC-AP-MW-5	**9/11/2019**	0.595	90.8	11.6	0.2	6.36	149	455
GC-AP-MW-6	**9/10/2019**	1.83	164	27.3	0.227	6.55	140	744
GC-AP-MW-7	**9/10/2019**	0.764	188	67	0.086(J)	6.39	409	1100
GC-AP-MW-8	**9/10/2019**	1.82	91	56.1	0.113	6.31	37.4	602
GC-AP-MW-9	**9/10/2019**	1.23	116	28	0.178	6.43	115	586
GC-AP-MW-10	**9/10/2019**	1.27	69.3	16.5	0.226	6.33	50.5	351
GC-AP-MW-11	**9/10/2019**	0.141	27.7	8.88	0.191	5.91	87.2	201
GC-AP-MW-12	**9/10/2019**	0.153	30.5	10.9	0.26	6.69	89.3	218
GC-AP-MW-13	**9/11/2019**	0.535	53.9	12.3	0.118	6.22	128	316
GC-AP-MW-14	**9/10/2019**	1.49	125	13.5	0.209	6.11	193	658
GC-AP-MW-15	**9/10/2019**	0.73	57.2	12.8	0.122	5.82	150	358
GC-AP-MW-16	**9/10/2019**	1.69	86.3	12.7	0.267	6.35	68	453
GC-AP-MW-17	**9/9/2019**	2.33	66.4	15.4	0.477	5.84	57.3	500
GC-AP-MW-18	**9/9/2019**	1.73	83.2	25.6	0.157	6.28	17.8	406
GC-AP-MW-21	**9/10/2019**	0.16	28.4	11	0.194	6.58	63.1	198
GC-AP-MW-23	**9/10/2019**	Non-Detect	30.7	1.38	0.0914(J)	5.85	12.4	107
GC-AP-MW-24	**9/10/2019**	Non-Detect	32.8	4.39	0.0545(J)	4.9	83.4	167
GC-AP-MW-25	**9/10/2019**	0.105	9.28	17.7	Non-Detect	5.15	66	182
GC-AP-MW-26	**9/11/2019**	Non-Detect	3.98	2.34	0.0716(J)	5.53	5.29	40.7
GC-AP-MW-27	**9/11/2019**	Non-Detect	0.638	1.7	Non-Detect	4.85	1.29	27.3
GC-AP-MW-28	**9/11/2019**	Non-Detect	1.98	1.26	0.0649(J)	4.33	10.6	40
GC-AP-MW-29	**9/11/2019**	Non-Detect	0.158(J)	1.19	Non-Detect	3.96	Non-Detect	Non-Detect
GC-AP-MW-30	**9/11/2019**	Non-Detect	0.925	3.72	Non-Detect	4.11	Non-Detect	34
GC-AP-MW-31	**9/11/2019**	Non-Detect	6.96	5.31	Non-Detect	5.85	3.83	52.7
GC-AP-MW-32	**9/11/2019**	Non-Detect	9.95	4.21	0.0518(J)	5.87	2.66	55.3
GC-AP-MW-33	**9/11/2019**	Non-Detect	2.17	4.16	Non-Detect	4.57	14.5	69.3

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	**SAMPLE DATE**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**
GWPS		**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**9/10/2019**	Non-Detect	0.0226	0.0283	Non-Detect	Non-Detect	Non-Detect	0.104
GC-AP-MW-2	**9/9/2019**	Non-Detect	0.022	0.035	Non-Detect	Non-Detect	Non-Detect	0.0154
GC-AP-MW-3	**9/9/2019**	Non-Detect	0.00806	0.111	Non-Detect	Non-Detect	Non-Detect	0.00413(J)
GC-AP-MW-5	**9/11/2019**	Non-Detect	0.406	0.323	Non-Detect	Non-Detect	Non-Detect	0.00767
GC-AP-MW-6	**9/10/2019**	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00306(J)
GC-AP-MW-7	**9/10/2019**	Non-Detect	Non-Detect	0.0887	Non-Detect	Non-Detect	Non-Detect	0.0034(J)
GC-AP-MW-8	**9/10/2019**	Non-Detect	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	0.0108
GC-AP-MW-9	**9/10/2019**	Non-Detect	0.0108	0.206	Non-Detect	Non-Detect	Non-Detect	0.0177
GC-AP-MW-10	**9/10/2019**	Non-Detect	0.0132	0.199	Non-Detect	Non-Detect	Non-Detect	0.0191
GC-AP-MW-11	**9/10/2019**	Non-Detect	0.00378(J)	0.0651	Non-Detect	Non-Detect	Non-Detect	0.02
GC-AP-MW-12	**9/10/2019**	Non-Detect	Non-Detect	0.0233	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-13	**9/11/2019**	0.00261(J)	0.00664	0.275	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-14	**9/10/2019**	Non-Detect	0.0263	0.0685	Non-Detect	Non-Detect	Non-Detect	0.0278
GC-AP-MW-15	**9/10/2019**	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0201
GC-AP-MW-16	**9/10/2019**	Non-Detect	0.0786	0.0754	Non-Detect	Non-Detect	Non-Detect	0.0162
GC-AP-MW-17	**9/9/2019**	Non-Detect	0.356	0.319	Non-Detect	Non-Detect	Non-Detect	0.0121
GC-AP-MW-18	**9/9/2019**	Non-Detect	0.0498	0.101	Non-Detect	Non-Detect	Non-Detect	0.0174
GC-AP-MW-21	**9/10/2019**	Non-Detect	Non-Detect	0.0568	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	**9/10/2019**	Non-Detect	Non-Detect	0.0338	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**9/10/2019**	Non-Detect	Non-Detect	0.0967	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**9/10/2019**	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	0.0127
GC-AP-MW-26	**9/11/2019**	Non-Detect	Non-Detect	0.0468	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**9/11/2019**	Non-Detect	Non-Detect	0.0574	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**9/11/2019**	Non-Detect	Non-Detect	0.246	Non-Detect	0.000573(J)	Non-Detect	Non-Detect
GC-AP-MW-29	**9/11/2019**	Non-Detect	Non-Detect	0.0404	Non-Detect	Non-Detect	Non-Detect	0.00265(J)
GC-AP-MW-30	**9/11/2019**	Non-Detect	Non-Detect	0.0855	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**9/11/2019**	Non-Detect	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**9/11/2019**	Non-Detect	Non-Detect	0.0147	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**9/11/2019**	Non-Detect	Non-Detect	0.0824	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.

2. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.

3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration),
data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically
at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV							
WELL	**SAMPLE DATE**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**9/10/2019**	1.39	0.179	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	**9/9/2019**	0.3(U)	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	**9/9/2019**	1.12	0.121	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**9/11/2019**	1.46	0.2	Non-Detect	0.117	Non-Detect	0.00328(J)	Non-Detect	Non-Detect
GC-AP-MW-6	**9/10/2019**	1.14	0.227	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	**9/10/2019**	0.569(U)	0.086(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	**9/10/2019**	0.898	0.113	Non-Detect	0.0928	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	**9/10/2019**	1.75	0.178	Non-Detect	0.128	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-10	**9/10/2019**	1.1	0.226	Non-Detect	0.112	Non-Detect	0.00757(J)	Non-Detect	Non-Detect
GC-AP-MW-11	**9/10/2019**	0.57	0.191	Non-Detect	0.124	Non-Detect	0.0205	Non-Detect	Non-Detect
GC-AP-MW-12	**9/10/2019**	0.434(U)	0.26	Non-Detect	0.0598	Non-Detect	0.134	Non-Detect	Non-Detect
GC-AP-MW-13	**9/11/2019**	0.557(U)	0.118	Non-Detect	0.246	Non-Detect	0.0226	Non-Detect	0.00214
GC-AP-MW-14	**9/10/2019**	0.852	0.209	Non-Detect	0.765	Non-Detect	0.0125	Non-Detect	Non-Detect
GC-AP-MW-15	**9/10/2019**	0.3(U)	0.122	Non-Detect	0.6	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	**9/10/2019**	0.516(U)	0.267	Non-Detect	0.581	Non-Detect	Non-Detect	Non-Detect	0.000396(J)
GC-AP-MW-17	**9/9/2019**	1.29	0.477	Non-Detect	0.571	Non-Detect	0.0681	Non-Detect	Non-Detect
GC-AP-MW-18	**9/9/2019**	1.08	0.157	Non-Detect	0.408	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-21	**9/10/2019**	0.0889(U)	0.194	Non-Detect	0.0862	Non-Detect	0.0609	Non-Detect	Non-Detect
GC-AP-MW-23	**9/10/2019**	0.219(U)	0.0914(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**9/10/2019**	1.21	0.0545(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**9/10/2019**	0.578	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	**9/11/2019**	0.561	0.0716(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**9/11/2019**	0.368(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**9/11/2019**	0.995	0.0649(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	**9/11/2019**	0.237(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**9/11/2019**	0.995	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**9/11/2019**	0.28(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**9/11/2019**	-0.464(U)	0.0518(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**9/11/2019**	1.02	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration),
data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurment.

4. TDS - Total Dissolved Solids

5. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically
at the conclusion of all the background sampling events, as required by EPA's CCR rule.

Appendix A

Monitoring Network Status Summary

Well ID	Purpose	Summary of Sampling Events																				
		February 16-19, 2016	April 12-14, 2016	May 31 - June 3, 2016	August 15-19, 2016	September 19-21, 2016	October 11-14, 2016	October 31 - Novemebr 4, 2016	November 14-17, 2016	Novemebr 28-30, 2016	January 3-5, 2017	January 23-26, 2017	March 20-24, 2017	May 8-11, 2017	June 27-30, 2017	August 28-31, 2017	February 26 - March 2, 2018	June 4-8, 2018	September 10-13, 2018	November 5-9, 2018	January 14 - March 28, 2019	March 25-28, 2019	September 9-13, 2019
Purpose of Sampling Event		Background	Background	Background	Background	Background Catchup #1	Background	TDS Re-Sample for Event #5	Background Catchup #2	TDS Re-Sample for Catchup #2	Background Catchup #3	Background	Anion Resample for Event #6	Background	Background	Detection	Assessment	2018 Semi-Annual 01	General Chemistry Event #1	2018 Semi-Annual 02 & Gen Chemistry	Delincation Event #1	2019 Semi-Annual 01	2019 Semi-Annual 02
GC-AP-MW-1	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-2	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-3	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-5	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-6	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-7	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-8	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-9	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-10	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-11	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-12	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-13	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-14	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-15	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-16	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-17	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-18	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-21	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-23	Upgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-24	Upgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	R05	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-25	Downgradient	BKG01	BKG02	BKG03	BKG04	---	BKG05	---	---	---	---	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-26	Upgradient	---	---	---	---	BKG01	BKG05	---	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-27	Upgradient	---	---	---	---	BKG01	BKG05	---	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-28	Upgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-29	Upgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-30	Upgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-31	Downgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-32	Downgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-MW-33	Downgradient	---	---	---	---	BKG01	BKG05	R05	BKG02	R02	BKG03	BKG06	R06	BKG07	BKG08	DET01	S01	ASM01	GC01	ASM02	---	ASM03	ASM04
GC-AP-PZ-19	Piezometer	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	GC01	ASM02	---	---	ASM04
GC-AP-PZ-4	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	GC01	ASM02	---	---	ASM04
GC-AP-MW-34HA	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-35H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-36H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-37H	Piezometer	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-38H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-39H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-40H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-41H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-42H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-43H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04
GC-AP-MW-44H	Delineation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DEL01	---	ASM04

Abbreviations:
1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. N/A indicates the constituent was not analyzed during the sampling event.
4. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.
5. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
6. GWPS is the Groundwater Protection Standard.
7. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
8. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

Analytical Data Summary
Plant Greene County Ash Pond
Alabama Power Company

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.0167	5	4	0.015	0.04	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-1	2/17/2016	0.219	204	16	0.05(J)	5.8	785	1540	Non-Detect	0.0181	0.0364	Non-Detect	Non-Detect	Non-Detect	0.0395	<3	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00277(J)	0.000601(J)
GC-AP-MW-1	4/13/2016	0.211	152	21.5	0.061(J)	5.85	715	1200	Non-Detect	0.0178	0.0344	Non-Detect	Non-Detect	Non-Detect	0.0452	1.0468(U)	0.061(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	6/1/2016	0.2	183	52.5	0.079(J)	5.92	832	1440	Non-Detect	0.016	0.0353	Non-Detect	Non-Detect	Non-Detect	0.0576	1.43	0.079(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	8/15/2016	0.211	197	33.3	0.081(J)	5.99	862	1420	Non-Detect	0.0182	0.0395	Non-Detect	Non-Detect	Non-Detect	0.0573	1.42	0.081(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	10/11/2016	0.23	186	22.2	0.049(J)	6.02	888	1420	Non-Detect	0.0186	0.0455	Non-Detect	Non-Detect	Non-Detect	0.0531	1.6	0.049(J)	Non-Detect	0.0194(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	1/24/2017	0.218	193	18.4	n/a	5.92	906	1350	0.000799(J)	0.0173	0.0428	Non-Detect	Non-Detect	Non-Detect	0.0539	1.3	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	3/14/2017	n/a	n/a	n/a	0.04(J)	5.96	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	5/9/2017	0.235	184	30	0.05(J)	5.93	810	1540	Non-Detect	0.0176	0.0399	Non-Detect	Non-Detect	Non-Detect	0.057	0.844	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	6/27/2017	0.206	184	29	0.04(J)	5.86	830	1470	Non-Detect	0.0165	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0664	1.32	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00206(J)	Non-Detect
GC-AP-MW-1	8/30/2017	0.138	182	23	0.04(J)	5.88	910	1530	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	2/27/2018	n/a	n/a	n/a	0.07(J)	5.92	n/a	n/a	Non-Detect	0.0201	0.0398	Non-Detect	Non-Detect	Non-Detect	0.0652	n/a	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00206(J)	Non-Detect
GC-AP-MW-1	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.815	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	6/4/2018	0.242	157	22	0.07(J)	5.89	850	1370	Non-Detect	0.0195	0.0314	Non-Detect	Non-Detect	Non-Detect	0.0758	1.01	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	9/10/2018	n/a	219	22	n/a	5.89	920	1380	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	11/6/2018	0.247	186	17	0.04(J)	5.95	880	1450	Non-Detect	0.0189	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0898	0.938	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	3/27/2019	0.488	73.8	18	0.192	5.8	1090	1910	Non-Detect	0.0267	0.0286	Non-Detect	Non-Detect	Non-Detect	0.176	1.17	0.192	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	9/10/2019	0.398	147	18.1	0.179	5.88	992	1740	Non-Detect	0.0226	0.0283	Non-Detect	Non-Detect	Non-Detect	0.104	1.39	0.179	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Greene County Ash Pond
Alabama Power Company

		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-2	2/17/2016	0.146	75	14.7	0.09(J)	6.01	304	516	Non-Detect	0.0142	0.0311	Non-Detect	Non-Detect	Non-Detect	0.00989(J)	<3	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000388(J)
GC-AP-MW-2	4/13/2016	0.125	70.2	14.3	0.092(J)	6.17	307	508	Non-Detect	0.0145	0.0334	Non-Detect	Non-Detect	Non-Detect	0.0106	<3	0.092(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/1/2016	0.114	71.2	14.6	0.108(J)	6.18	273	494	Non-Detect	0.0112	0.029	Non-Detect	Non-Detect	Non-Detect	0.011	0.758	0.108(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	8/15/2016	0.128	72.2	14.7	0.105(J)	6.12	275	476	Non-Detect	0.0154	0.0317	Non-Detect	Non-Detect	Non-Detect	0.0117	0.638	0.105(J)	0.00104(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	10/11/2016	0.129	73.8	14.8	0.062(J)	6.09	284	508	Non-Detect	0.0113	0.0339	Non-Detect	Non-Detect	Non-Detect	0.0117	0.701	0.062(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	1/24/2017	0.124	72.2	15	n/a	6.04	302	510	0.00084(J)	0.0115	0.0276	Non-Detect	Non-Detect	Non-Detect	0.00863(J)	0.515(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	3/14/2017	n/a	n/a	n/a	Non-Detect	6.11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	5/9/2017	0.121	66.4	16	0.07(J)	6.1	250	510	Non-Detect	0.00989	0.0285	Non-Detect	Non-Detect	Non-Detect	0.00975(J)	0.393(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/28/2017	0.111	65.4	15	0.09(J)	6.09	230	480	Non-Detect	0.00848	0.0273	Non-Detect	Non-Detect	Non-Detect	0.0102	0.374	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	8/30/2017	0.0915(J)	67.8	15	0.07(J)	6.07	250	478	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	2/27/2018	n/a	n/a	n/a	0.08(J)	6.09	n/a	n/a	Non-Detect	0.0106	0.0292	Non-Detect	Non-Detect	Non-Detect	0.00924(J)	0.334(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/4/2018	0.134	68.3	16	0.09(J)	6.07	260	528	Non-Detect	0.0124	0.0298	Non-Detect	Non-Detect	Non-Detect	0.00866(J)	0.64	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	9/10/2018	n/a	73.9	17	n/a	6	280	472	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	11/6/2018	0.131	75.1	17	0.07(J)	6.04	280	522	Non-Detect	0.0085	0.0286	Non-Detect	Non-Detect	Non-Detect	0.0101	0.803	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	3/27/2019	0.138	96.1	14.8	0.089(J)	6.06	375	562	Non-Detect	0.0101	0.0311	Non-Detect	Non-Detect	Non-Detect	0.0131	0.77	0.089(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	9/9/2019	0.157	111	14	0.163	6.13	385	666	Non-Detect	0.022	0.035	Non-Detect	Non-Detect	Non-Detect	0.0154	0.3(U)	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Greene County Ash Pond
Alabama Power Company

		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-3	2/17/2016	0.0288(J)	106	25.2	0.08(J)	6.29	Non-Detect	358	Non-Detect	0.00668	0.0896	Non-Detect	Non-Detect	Non-Detect	0.00507(J)	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00038(J)
GC-AP-MW-3	4/12/2016	0.0293(J)	95.2	24.6	0.083(J)	6.33	0.49(J)	393	Non-Detect	0.00827	0.0994	Non-Detect	Non-Detect	Non-Detect	0.0047(J)	<3	0.083(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/1/2016	0.0279(J)	86.1	24.5	0.118(J)	6.4	0.544(J)	381	Non-Detect	0.00768	0.104	Non-Detect	Non-Detect	Non-Detect	0.00372(J)	1.06	0.118(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	8/15/2016	0.0332(J)	89.7	24.2	0.109(J)	6.36	0.332(J)	348	Non-Detect	0.00798	0.102	Non-Detect	Non-Detect	Non-Detect	0.0039(J)	0.972	0.109(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	10/11/2016	0.0328(J)	90.6	24.4	0.066(J)	6.38	Non-Detect	379	Non-Detect	0.008	0.11	Non-Detect	Non-Detect	Non-Detect	0.00415(J)	0.802	0.066(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	1/24/2017	0.0262(J)	94.2	24.6	n/a	6.34	Non-Detect	354	0.000906(J)	0.00722	0.0942	Non-Detect	Non-Detect	Non-Detect	0.00383(J)	1.1	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	3/14/2017	n/a	n/a	n/a	0.07(J)	6.42	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	5/9/2017	0.0298(J)	90.3	27	0.09(J)	6.35	2.1(J)	368	Non-Detect	0.00766	0.105	Non-Detect	Non-Detect	Non-Detect	0.00396(J)	0.74	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/28/2017	0.0226(J)	80.7	26	0.1	6.32	Non-Detect	368	Non-Detect	0.00745	0.104	Non-Detect	Non-Detect	Non-Detect	0.00336(J)	0.867	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	8/30/2017	Non-Detect	84	26	0.12	6.32	Non-Detect	370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.12	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	2/27/2018	n/a	n/a	n/a	0.09(J)	6.39	n/a	n/a	Non-Detect	0.00699	0.0989	Non-Detect	Non-Detect	Non-Detect	0.00442(J)	0.905	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/4/2018	0.0296(J)	98.8	27	0.1	6.4	1.4(J)	369	Non-Detect	0.00731	0.0936	Non-Detect	Non-Detect	Non-Detect	0.0038(J)	0.954	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	9/12/2018	n/a	109	26	n/a	6.35	Non-Detect	354	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	11/6/2018	0.0268(J)	110	26	0.1	6.34	Non-Detect	354	Non-Detect	0.00685	0.0936	Non-Detect	Non-Detect	Non-Detect	0.00439(J)	1.27	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	3/27/2019	0.0316(J)	111	24.8	0.13	6.44	6.64	362	Non-Detect	0.00596	0.0951	Non-Detect	Non-Detect	Non-Detect	0.00463(J)	1.47	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	9/9/2019	0.035(J)	98.5	23.8	0.121	6.22	6.56	371	Non-Detect	0.00806	0.111	Non-Detect	Non-Detect	Non-Detect	0.00413(J)	1.12	0.121	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-5	2/17/2016	0.478	59.8	16.4	0.22(J)	6.63	Non-Detect	238	Non-Detect	0.353	0.397	Non-Detect	Non-Detect	Non-Detect	0.0216	<3	0.22(J)	Non-Detect	0.0883	Non-Detect	0.00347(J)	Non-Detect	0.000779(J)
GC-AP-MW-5	4/12/2016	0.467	56.1	16.6	0.214(J)	6.59	0.483(J)	316	Non-Detect	0.402	0.434	Non-Detect	Non-Detect	Non-Detect	0.0205	<3	0.214(J)	Non-Detect	0.0862	Non-Detect	0.00297(J)	Non-Detect	Non-Detect
GC-AP-MW-5	5/31/2016	0.443	56.6	16.8	0.232(J)	6.57	0.518(J)	320	Non-Detect	0.33	0.354	Non-Detect	Non-Detect	Non-Detect	0.0196	2.11	0.232(J)	Non-Detect	0.085	Non-Detect	0.00261(J)	Non-Detect	Non-Detect
GC-AP-MW-5	8/17/2016	0.477	61	16.4	0.225(J)	6.72	3.63	325	Non-Detect	0.369	0.397	Non-Detect	Non-Detect	Non-Detect	0.0169	2.28	0.225(J)	Non-Detect	0.093	Non-Detect	0.0033(J)	Non-Detect	Non-Detect
GC-AP-MW-5	10/11/2016	0.489	61.3	15.2	0.19(J)	6.69	15.6	333	Non-Detect	0.378	0.485	Non-Detect	Non-Detect	Non-Detect	0.0157	1.83	0.19(J)	Non-Detect	0.0928	Non-Detect	0.0041(J)	Non-Detect	Non-Detect
GC-AP-MW-5	1/24/2017	0.475	61	15.1	n/a	6.61	28.9	336	0.000728(J)	0.386	0.472	Non-Detect	Non-Detect	Non-Detect	0.00858(J)	1.92	n/a	Non-Detect	0.094	Non-Detect	0.00336(J)	Non-Detect	Non-Detect
GC-AP-MW-5	3/14/2017	n/a	n/a	n/a	0.22	6.55	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	5/9/2017	0.479	61.7	17	0.21	6.65	25	317	Non-Detect	0.406	0.512	Non-Detect	Non-Detect	Non-Detect	0.00755(J)	3.05	0.21	Non-Detect	0.0865	Non-Detect	0.0031(J)	Non-Detect	Non-Detect
GC-AP-MW-5	6/28/2017	0.448	66.1	17	0.21	6.66	45	373	Non-Detect	0.353	0.48	Non-Detect	Non-Detect	Non-Detect	0.0069(J)	2.24	0.21	Non-Detect	0.0879	Non-Detect	0.00356(J)	Non-Detect	Non-Detect
GC-AP-MW-5	8/30/2017	0.407	78.9	17	0.25	6.66	96	432	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.25	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	2/27/2018	n/a	n/a	n/a	0.23	6.73	n/a	n/a	Non-Detect	0.425	0.269	Non-Detect	Non-Detect	Non-Detect	0.00471(J)	1.01	0.23	Non-Detect	0.113	Non-Detect	0.0042(J)	Non-Detect	Non-Detect
GC-AP-MW-5	6/5/2018	0.489	64.8	15	0.24	6.63	36	347	Non-Detect	0.454	0.27	Non-Detect	Non-Detect	Non-Detect	0.00481(J)	1.39	0.24	Non-Detect	0.101	Non-Detect	0.00293(J)	Non-Detect	Non-Detect
GC-AP-MW-5	9/11/2018	n/a	72.2	14	n/a	6.65	48	370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	11/6/2018	0.508	78.9	13	0.22	6.65	93	409	Non-Detect	0.432	0.306	Non-Detect	Non-Detect	Non-Detect	0.00545	1.72	0.22	Non-Detect	0.116	Non-Detect	0.00318(J)	Non-Detect	Non-Detect
GC-AP-MW-5	3/27/2019	0.502	69.1	16.1	0.208	6.59	33.4	328	Non-Detect	0.455	0.251	Non-Detect	Non-Detect	Non-Detect	0.00614	1.56	0.208	Non-Detect	0.0988	Non-Detect	0.00284(J)	Non-Detect	Non-Detect
GC-AP-MW-5	9/11/2019	0.595	90.8	11.6	0.2	6.36	149	455	Non-Detect	0.406	0.323	Non-Detect	Non-Detect	Non-Detect	0.00767	1.46	0.2	Non-Detect	0.117	Non-Detect	0.00328(J)	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-6	2/17/2016	2.12	128	31.8	0.17(J)	6.46	132	640	Non-Detect	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.17(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000639(J)
GC-AP-MW-6	4/12/2016	2.06	115	28.9	0.203(J)	6.45	130	610	Non-Detect	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.203(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	5/31/2016	1.97	118	28.7	0.212(J)	6.51	111	626	Non-Detect	Non-Detect	0.0407	Non-Detect	Non-Detect	Non-Detect	0.00389(J)	0.453(U)	0.212(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	8/17/2016	2.01	120	32.2	0.19(J)	6.54	95.8	628	Non-Detect	Non-Detect	0.0434	Non-Detect	Non-Detect	Non-Detect	0.00234(J)	0.381(U)	0.19(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	10/11/2016	1.91	119	34.2	0.15(J)	6.53	101	636	Non-Detect	Non-Detect	0.0514	Non-Detect	Non-Detect	Non-Detect	0.00202(J)	0.139(U)	0.15(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	1/24/2017	1.62	110	38.1	n/a	6.44	129	696	0.000792(J)	Non-Detect	0.0476	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.496	n/a	Non-Detect	0.0591	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	3/14/2017	n/a	n/a	n/a	0.18	6.4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.18	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	5/10/2017	1.62	104	41	0.19	6.4	120	687	Non-Detect	Non-Detect	0.0543	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.278(U)	0.19	Non-Detect	0.0519	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	6/28/2017	1.71	98	36	0.18	6.46	100	622	Non-Detect	Non-Detect	0.0402	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.724	0.18	Non-Detect	0.0403(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	8/29/2017	1.7	108	35	0.22	6.47	95	616	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	2/27/2018	n/a	n/a	n/a	0.22	6.53	n/a	n/a	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.214(U)	0.22	Non-Detect	0.0201(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	6/5/2018	1.56	121	32	0.23	6.49	98	582	Non-Detect	Non-Detect	0.051	Non-Detect	Non-Detect	Non-Detect	0.00237(J)	0.176(U)	0.23	Non-Detect	0.0218(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	9/11/2018	n/a	119	36	n/a	6.48	100	616	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	11/7/2018	1.6	124	30	0.22	6.48	97	576	Non-Detect	Non-Detect	0.0527	Non-Detect	Non-Detect	Non-Detect	0.00258(J)	1.39	0.22	Non-Detect	0.0141(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	3/26/2019	1.63	148	31.9	0.253	6.54	120	682	0.00141(J)	Non-Detect	0.0682	Non-Detect	Non-Detect	Non-Detect	0.00223(J)	0.904	0.253	Non-Detect	0.0192(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	9/10/2019	1.83	164	27.3	0.227	6.55	140	744	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00306(J)	1.14	0.227	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-7	2/17/2016	0.503	158	62.7	0.07(J)	6.45	311	892	Non-Detect	Non-Detect	0.0772	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00042(J)
GC-AP-MW-7	4/13/2016	0.478	151	57.8	0.081(J)	6.49	330	1010	Non-Detect	Non-Detect	0.0886	Non-Detect	Non-Detect	Non-Detect	0.00218(J)	<3	0.081(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	5/31/2016	0.452	158	55.6	0.103(J)	6.43	324	1100	Non-Detect	Non-Detect	0.0823	Non-Detect	Non-Detect	Non-Detect	0.00328(J)	0.658	0.103(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	8/17/2016	0.492	152	53.3	0.078(J)	6.43	306	1070	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00217(J)	0.936	0.078(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	10/12/2016	0.487	150	51.2	0.041(J)	6.46	296	1040	Non-Detect	Non-Detect	0.0883	Non-Detect	Non-Detect	Non-Detect	0.00225(J)	0.668	0.041(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	1/25/2017	0.529	137	44.8	n/a	6.43	243	972	0.000839(J)	Non-Detect	0.067	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.718	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	3/14/2017	n/a	n/a	n/a	0.07(J)	6.41	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	5/10/2017	0.533	111	44	0.09(J)	6.41	210	740	Non-Detect	Non-Detect	0.0644	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.56	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	6/28/2017	0.501	108	45	0.08(J)	6.46	210	914	Non-Detect	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.526	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	8/29/2017	0.51	113	43	0.09(J)	6.46	220	924	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	2/27/2018	n/a	n/a	n/a	0.08(J)	6.45	n/a	n/a	Non-Detect	Non-Detect	0.0669	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.803	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	6/5/2018	0.605	186	49	0.08(J)	6.36	390	1060	Non-Detect	Non-Detect	0.0672	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.577	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	9/11/2018	n/a	209	52	n/a	6.38	360	1020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	11/7/2018	0.677	175	58	0.08(J)	6.37	390	1050	Non-Detect	Non-Detect	0.0739	Non-Detect	Non-Detect	Non-Detect	0.00277(J)	1.51	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	3/26/2019	0.727	193	71	0.106	6.39	430	1100	Non-Detect	Non-Detect	0.0796	Non-Detect	Non-Detect	Non-Detect	0.0024(J)	0.841	0.106	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	9/10/2019	0.764	188	67	0.086(J)	6.39	409	1100	Non-Detect	Non-Detect	0.0887	Non-Detect	Non-Detect	Non-Detect	0.0034(J)	0.569(U)	0.086(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-8	2/16/2016	1.54	75.9	67.9	0.08(J)	6.16	49.4	656	Non-Detect	Non-Detect	0.117	Non-Detect	Non-Detect	Non-Detect	0.0129	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	4/13/2016	1.56	74.1	64.1	0.088(J)	6.29	51.7	634	Non-Detect	Non-Detect	0.113	Non-Detect	Non-Detect	Non-Detect	0.0139	<3	0.088(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	6/1/2016	1.49	76.4	66.3	0.109(J)	6.33	51.2	672	Non-Detect	Non-Detect	0.105	Non-Detect	Non-Detect	Non-Detect	0.0139	0.884	0.109(J)	Non-Detect	0.0101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	8/17/2016	1.57	74.2	56.7	0.089(J)	6.27	42.9	624	Non-Detect	Non-Detect	0.105	Non-Detect	Non-Detect	Non-Detect	0.0138	1.06	0.089(J)	Non-Detect	0.0143(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	10/12/2016	1.65	75.7	56.1	0.048(J)	6.3	39.5	586	Non-Detect	Non-Detect	0.111	Non-Detect	Non-Detect	Non-Detect	0.0138	0.269(U)	0.048(J)	Non-Detect	0.0166(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	1/25/2017	1.89	76.1	53.6	n/a	6.27	31.3	596	0.000833(J)	Non-Detect	0.0963	Non-Detect	Non-Detect	Non-Detect	0.0115	1.12	n/a	Non-Detect	0.0272(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	3/15/2017	n/a	n/a	n/a	0.08(J)	6.27	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.08(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	5/10/2017	1.94	78.6	48	0.1	6.25	30	576	Non-Detect	Non-Detect	0.103	Non-Detect	Non-Detect	Non-Detect	0.0125	0.887	0.1	Non-Detect	0.0436(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	6/28/2017	1.72	76.4	49	0.09(J)	6.25	35	612	Non-Detect	Non-Detect	0.0935	Non-Detect	Non-Detect	Non-Detect	0.0137	0.908	0.09(J)	Non-Detect	0.0401(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	8/29/2017	1.63	74.1	52	0.11	6.32	40	640	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	2/27/2018	n/a	n/a	n/a	0.11	6.36	n/a	n/a	Non-Detect	Non-Detect	0.0808	Non-Detect	Non-Detect	Non-Detect	0.00698(J)	n/a	0.11	Non-Detect	0.0309(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.131(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	6/5/2018	1.73	58	38	0.11	6.3	25	474	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00478(J)	0.564	0.11	Non-Detect	0.0286(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	9/11/2018	n/a	64.9	37	n/a	6.36	23	496	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	11/7/2018	1.8	68.1	41	0.11	6.31	30	514	Non-Detect	Non-Detect	0.0855	Non-Detect	Non-Detect	Non-Detect	0.00651	0.34(U)	0.11	Non-Detect	0.0371	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	3/26/2019	1.81	72	39.7	0.162	6.32	21.6	546	Non-Detect	Non-Detect	0.0911	Non-Detect	Non-Detect	Non-Detect	0.00445(J)	0.507	0.162	Non-Detect	0.0537	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	9/10/2019	1.82	91	56.1	0.113	6.31	37.4	602	Non-Detect	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	0.0108	0.898	0.113	Non-Detect	0.0928	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-9	2/16/2016	0.412	33.9	15.6	0.16(J)	6.5	45.2	226	Non-Detect	0.00507	0.0637	Non-Detect	Non-Detect	Non-Detect	0.00869(J)	<3	0.16(J)	Non-Detect	0.0359(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	4/13/2016	0.376	32.5	14.3	0.15(J)	6.32	43.9	202	Non-Detect	0.00556	0.0552	Non-Detect	Non-Detect	Non-Detect	0.00936(J)	<3	0.15(J)	Non-Detect	0.0276(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	6/1/2016	0.338	33.9	12.6	0.19(J)	6.43	32	224	Non-Detect	0.00625	0.0555	Non-Detect	Non-Detect	Non-Detect	0.00976(J)	0.532	0.19(J)	Non-Detect	0.0296(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	8/17/2016	0.412	50.3	14.4	0.171(J)	6.46	31.9	290	Non-Detect	0.00648	0.0745	Non-Detect	Non-Detect	Non-Detect	0.012	1.07	0.171(J)	Non-Detect	0.0398(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	10/12/2016	0.46	53.3	16.4	0.137(J)	6.53	39.6	315	Non-Detect	0.00772	0.0897	Non-Detect	Non-Detect	Non-Detect	0.0127	1.07	0.137(J)	Non-Detect	0.0433(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	1/25/2017	0.586	59.9	20	n/a	6.45	44	332	0.000847(J)	0.00728	0.0864	Non-Detect	Non-Detect	Non-Detect	0.0109	1.46	n/a	Non-Detect	0.0366(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	3/15/2017	n/a	n/a	n/a	0.15	6.39	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.15	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	5/10/2017	0.661	66.5	24	0.17	6.39	32	361	Non-Detect	0.00818	0.105	Non-Detect	Non-Detect	Non-Detect	0.0129	1.21	0.17	Non-Detect	0.039(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	6/28/2017	0.673	69.8	25	0.16	6.4	34	396	Non-Detect	0.00718	0.0897	Non-Detect	Non-Detect	Non-Detect	0.0125	0.821	0.16	Non-Detect	0.0345(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	8/29/2017	0.723	72	25	0.19	6.47	34	402	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.19	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	2/27/2018	n/a	n/a	n/a	0.19	6.54	n/a	n/a	Non-Detect	0.00946	0.118	Non-Detect	Non-Detect	Non-Detect	0.013	n/a	0.19	Non-Detect	0.0349(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.232(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	6/5/2018	0.954	95.1	25	0.19	6.47	22	448	Non-Detect	0.00921	0.111	Non-Detect	Non-Detect	Non-Detect	0.0113	0.722	0.19	Non-Detect	0.0338(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	9/11/2018	n/a	122	26	n/a	6.53	33	462	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	11/7/2018	1.11	107	25	0.2	6.49	76	506	Non-Detect	0.0098	0.141	Non-Detect	Non-Detect	Non-Detect	0.0145	0.82	0.2	Non-Detect	0.0616	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	3/26/2019	1.14	132	25.3	0.223	6.47	138	586	Non-Detect	0.00969	0.175	Non-Detect	Non-Detect	Non-Detect	0.0167	1.49	0.223	Non-Detect	0.0931	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	9/10/2019	1.23	116	28	0.178	6.43	115	586	Non-Detect	0.0108	0.206	Non-Detect	Non-Detect	Non-Detect	0.0177	1.75	0.178	Non-Detect	0.128	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-10	2/16/2016	1.44	76.3	18.4	0.23(J)	6.29	9.03	312	0.000786(J)	0.0123	0.179	Non-Detect	Non-Detect	Non-Detect	0.0135	<3	0.23(J)	Non-Detect	0.115	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-10	4/13/2016	0.373	30.5	19	0.236(J)	6.21	10.7	324	Non-Detect	0.0143	0.185	Non-Detect	Non-Detect	Non-Detect	0.0155	<3	0.236(J)	Non-Detect	0.135	Non-Detect	0.0127	Non-Detect	Non-Detect
GC-AP-MW-10	5/31/2016	1.26	65.9	19.2	0.255(J)	6.45	10.2	333	Non-Detect	0.0125	0.158	Non-Detect	Non-Detect	Non-Detect	0.0146	0.899	0.255(J)	Non-Detect	0.127	Non-Detect	0.0106	Non-Detect	Non-Detect
GC-AP-MW-10	8/16/2016	1.34	65.6	17.7	0.238(J)	6.58	9.1	327	Non-Detect	0.0128	0.16	Non-Detect	Non-Detect	Non-Detect	0.016	0.82	0.238(J)	Non-Detect	0.124	Non-Detect	0.00991(J)	Non-Detect	Non-Detect
GC-AP-MW-10	10/12/2016	1.34	63.4	16.8	0.198(J)	6.6	7.24	312	Non-Detect	0.0145	0.17	Non-Detect	Non-Detect	Non-Detect	0.0154	0.92	0.198(J)	Non-Detect	0.101	Non-Detect	0.00919(J)	Non-Detect	Non-Detect
GC-AP-MW-10	1/25/2017	1.38	64.2	18.6	n/a	6.47	9.71	286	0.00128(J)	0.0122	0.156	Non-Detect	Non-Detect	Non-Detect	0.0139	1.2	n/a	Non-Detect	0.109	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-10	3/15/2017	n/a	n/a	n/a	0.22	6.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	5/10/2017	1.23	62.6	22	0.25	6.53	11	326	Non-Detect	0.0135	0.169	Non-Detect	Non-Detect	Non-Detect	0.0144	0.665	0.25	Non-Detect	0.101	Non-Detect	0.00984(J)	Non-Detect	Non-Detect
GC-AP-MW-10	6/28/2017	1.05	60.8	20	0.09(J)	6.49	10	304	Non-Detect	0.0131	0.144	Non-Detect	Non-Detect	Non-Detect	0.0134	0.29(U)	0.09(J)	Non-Detect	0.0954	Non-Detect	0.0102	Non-Detect	Non-Detect
GC-AP-MW-10	8/29/2017	1.17	61.4	20	0.26	6.49	14	348	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.26	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	2/27/2018	n/a	n/a	n/a	0.26	6.59	n/a	n/a	Non-Detect	0.0146	0.172	Non-Detect	Non-Detect	Non-Detect	0.0148	n/a	0.26	Non-Detect	0.111	Non-Detect	0.011	Non-Detect	Non-Detect
GC-AP-MW-10	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.558	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	6/5/2018	1.31	65.5	18	0.24	6.52	39	346	Non-Detect	0.0233	0.173	Non-Detect	Non-Detect	Non-Detect	0.0139	0.698	0.24	Non-Detect	0.104	Non-Detect	0.00752(J)	Non-Detect	Non-Detect
GC-AP-MW-10	9/11/2018	n/a	66.1	19	n/a	6.53	29	335	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	11/7/2018	1.26	68.5	19	0.25	6.51	45	342	Non-Detect	0.0152	0.171	Non-Detect	Non-Detect	Non-Detect	0.015	0.568	0.25	Non-Detect	0.11	Non-Detect	0.00748(J)	Non-Detect	Non-Detect
GC-AP-MW-10	3/27/2019	1.11	71.8	17.1	0.206	6.53	66.2	347	Non-Detect	0.014	0.167	Non-Detect	Non-Detect	Non-Detect	0.014	0.988	0.206	Non-Detect	0.115	Non-Detect	0.00778(J)	Non-Detect	Non-Detect
GC-AP-MW-10	9/10/2019	1.27	69.3	16.5	0.226	6.33	50.5	351	Non-Detect	0.0132	0.199	Non-Detect	Non-Detect	Non-Detect	0.0191	1.1	0.226	Non-Detect	0.112	Non-Detect	0.00757(J)	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-11	2/17/2016	0.581	18.6	16.6	0.11(J)	6.04	40.2	158	Non-Detect	0.00437(J)	0.105	Non-Detect	Non-Detect	Non-Detect	0.0504	<3	0.11(J)	Non-Detect	0.0777	Non-Detect	0.00651(J)	Non-Detect	0.000869(J)
GC-AP-MW-11	4/13/2016	0.61	17.8	17	0.119(J)	6.07	33.1	161	Non-Detect	0.00695	0.106	Non-Detect	Non-Detect	Non-Detect	0.0448	<3	0.119(J)	Non-Detect	0.073	Non-Detect	0.00646(J)	Non-Detect	Non-Detect
GC-AP-MW-11	5/31/2016	0.615	17.7	19	0.134(J)	6.03	28.1	173	Non-Detect	0.0063	0.0907	Non-Detect	Non-Detect	Non-Detect	0.0405	0.145(U)	0.134(J)	Non-Detect	0.0721	Non-Detect	0.00546(J)	Non-Detect	Non-Detect
GC-AP-MW-11	8/16/2016	0.554	18.4	17	0.116(J)	6.09	38.5	173	Non-Detect	0.0068	0.0989	Non-Detect	Non-Detect	Non-Detect	0.0464	0.521(U)	0.116(J)	Non-Detect	0.075	Non-Detect	0.00582(J)	Non-Detect	Non-Detect
GC-AP-MW-11	10/12/2016	0.537	17.3	16.2	0.076(J)	6.06	38.3	173	Non-Detect	0.00709	0.113	Non-Detect	Non-Detect	Non-Detect	0.0489	0.669(U)	0.076(J)	Non-Detect	0.0703	Non-Detect	0.00589(J)	Non-Detect	Non-Detect
GC-AP-MW-11	1/25/2017	0.562	16.6	18	n/a	5.94	32	161	0.000896(J)	0.00718	0.103	Non-Detect	Non-Detect	Non-Detect	0.0417	0.789	n/a	Non-Detect	0.0683	Non-Detect	0.00556(J)	Non-Detect	Non-Detect
GC-AP-MW-11	3/14/2017	n/a	n/a	n/a	0.09(J)	6.08	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	5/9/2017	0.528	18	23	0.11	6.07	44	195	Non-Detect	0.00819	0.125	Non-Detect	Non-Detect	Non-Detect	0.0471	0.647	0.11	Non-Detect	0.0646	Non-Detect	0.0058(J)	Non-Detect	Non-Detect
GC-AP-MW-11	6/28/2017	0.313	22.6	24	0.17	6.02	88	227	Non-Detect	0.00664	0.103	Non-Detect	Non-Detect	Non-Detect	0.0664	0.415	0.17	Non-Detect	0.109	Non-Detect	0.00616(J)	Non-Detect	Non-Detect
GC-AP-MW-11	8/29/2017	0.241	23.9	15	0.14	6.19	110	229	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.14	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	2/27/2018	n/a	n/a	n/a	0.14	6.21	n/a	n/a	Non-Detect	0.00733	0.0718	Non-Detect	Non-Detect	Non-Detect	0.0438	0.864	0.14	Non-Detect	0.11	Non-Detect	0.00962(J)	Non-Detect	Non-Detect
GC-AP-MW-11	6/5/2018	0.311	25.7	16	0.16	6.27	79	200	Non-Detect	0.00637	0.0643	Non-Detect	Non-Detect	Non-Detect	0.036	0.244(U)	0.16	Non-Detect	0.102	Non-Detect	0.00984(J)	Non-Detect	Non-Detect
GC-AP-MW-11	9/10/2018	n/a	27.2	13	n/a	6.33	80	183	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	11/5/2018	0.262	24.1	13	0.15	6.26	81	193	Non-Detect	0.00195(J)	0.0588	Non-Detect	Non-Detect	Non-Detect	0.0171	0.682	0.15	Non-Detect	0.0641	Non-Detect	0.00944(J)	Non-Detect	Non-Detect
GC-AP-MW-11	3/27/2019	0.298	31	14.2	0.104	6.37	83.2	211	Non-Detect	0.00573	0.0678	Non-Detect	Non-Detect	Non-Detect	0.0292	0.564	0.104	Non-Detect	0.119	Non-Detect	0.0151	Non-Detect	Non-Detect
GC-AP-MW-11	9/10/2019	0.141	27.7	8.88	0.191	5.91	87.2	201	Non-Detect	0.00378(J)	0.0651	Non-Detect	Non-Detect	Non-Detect	0.02	0.57	0.191	Non-Detect	0.124	Non-Detect	0.0205	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-12	2/16/2016	0.273	34.6	10.8	0.16(J)	6.84	119	264	0.000933(J)	Non-Detect	0.0231	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.16(J)	Non-Detect	0.502	Non-Detect	0.107	Non-Detect	Non-Detect
GC-AP-MW-12	4/13/2016	0.276	32.2	8.2	0.163(J)	7.03	122	238	Non-Detect	Non-Detect	0.02	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.163(J)	Non-Detect	0.544	Non-Detect	0.101	Non-Detect	Non-Detect
GC-AP-MW-12	5/31/2016	0.291	28.8	7.74	0.19(J)	6.94	94.3	206	0.000834(J)	Non-Detect	0.0175	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.21(U)	0.19(J)	Non-Detect	0.47	Non-Detect	0.0915	Non-Detect	Non-Detect
GC-AP-MW-12	8/16/2016	0.268	24	12.5	0.219(J)	6.84	67.1	180	0.00118(J)	Non-Detect	0.0182	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.697	0.219(J)	Non-Detect	0.282	Non-Detect	0.127	Non-Detect	Non-Detect
GC-AP-MW-12	10/12/2016	0.252	27.8	15.7	0.163(J)	6.75	94.1	223	0.000899(J)	Non-Detect	0.0221	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.421(U)	0.163(J)	Non-Detect	0.217	Non-Detect	0.11	Non-Detect	Non-Detect
GC-AP-MW-12	1/25/2017	0.167	33.7	24.4	n/a	6.87	101	271	0.00136(J)	Non-Detect	0.0187	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.265(U)	n/a	Non-Detect	0.108	Non-Detect	0.0741	Non-Detect	Non-Detect
GC-AP-MW-12	3/15/2017	n/a	n/a	n/a	0.13	6.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.13	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	5/9/2017	0.32	35.5	15	0.15	6.85	91	236	Non-Detect	Non-Detect	0.0232	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.132(U)	0.15	Non-Detect	0.132	Non-Detect	0.0883	Non-Detect	Non-Detect
GC-AP-MW-12	6/28/2017	0.231	28	12	0.17	6.85	71	198	0.000683(J)	Non-Detect	0.0178	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.493	0.17	Non-Detect	0.126	Non-Detect	0.109	Non-Detect	Non-Detect
GC-AP-MW-12	8/29/2017	0.191	26.4	10	0.22	6.86	80	187	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.89	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	2/28/2018	n/a	n/a	n/a	0.19	6.94	n/a	n/a	0.000656(J)	Non-Detect	0.0197	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.19	Non-Detect	0.0786	Non-Detect	0.0903	Non-Detect	Non-Detect
GC-AP-MW-12	6/6/2018	0.26	30.1	11	0.19	6.99	62	199	Non-Detect	Non-Detect	0.0204	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.114(U)	0.19	Non-Detect	0.067	Non-Detect	0.0757	Non-Detect	Non-Detect
GC-AP-MW-12	9/11/2018	n/a	27.4	12	n/a	6.87	63	184	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	11/5/2018	0.127	28.8	17	0.2	6.81	74	210	Non-Detect	Non-Detect	0.0255	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.048(U)	0.2	Non-Detect	0.0912	Non-Detect	0.0906	Non-Detect	Non-Detect
GC-AP-MW-12	3/26/2019	0.111	33.7	14.5	0.196	6.95	92.3	230	0.00121(J)	Non-Detect	0.0218	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.381	0.196	Non-Detect	0.0532	Non-Detect	0.11	Non-Detect	Non-Detect
GC-AP-MW-12	9/10/2019	0.153	30.5	10.9	0.26	6.69	89.3	218	Non-Detect	Non-Detect	0.0233	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.434(U)	0.26	Non-Detect	0.0598	Non-Detect	0.134	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-13	2/16/2016	0.26	29.8	6.52	0.14(J)	6.4	113	242	0.000972(J)	0.0141	0.113	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.14(J)	Non-Detect	0.51	Non-Detect	0.0769	0.0227	Non-Detect
GC-AP-MW-13	4/12/2016	0.26	23.3	4.47	0.119(J)	6.41	86.7	176	Non-Detect	0.0144	0.0912	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.119(J)	Non-Detect	0.508	Non-Detect	0.0442	0.0701	Non-Detect
GC-AP-MW-13	5/31/2016	0.318	25.9	10.8	0.132(J)	6.22	83.1	189	0.000869(J)	0.00984	0.0963	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.313(U)	0.132(J)	Non-Detect	0.454	Non-Detect	0.0481	0.0129	0.000212(J)
GC-AP-MW-13	8/16/2016	0.322	25.5	16.6	0.177(J)	6.41	59.3	192	0.00128(J)	0.0126	0.0878	Non-Detect	Non-Detect	0.00381(J)	Non-Detect	0.435(U)	0.177(J)	Non-Detect	0.371	Non-Detect	0.0956	0.0208	0.000449(J)
GC-AP-MW-13	10/12/2016	0.244	29.5	18.5	0.149(J)	6.42	99.3	n/a	0.00114(J)	0.0117	0.112	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0137(U)	0.149(J)	Non-Detect	0.282	Non-Detect	0.114	0.00431(J)	0.000532(J)
GC-AP-MW-13	11/1/2016	n/a	n/a	n/a	n/a	6.55	n/a	244	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	1/25/2017	0.188	33.6	22	n/a	6.76	113	274	0.00384	0.00316(J)	0.114	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.309(U)	n/a	Non-Detect	0.0904	Non-Detect	0.078	0.00779(J)	0.000309(J)
GC-AP-MW-13	3/15/2017	n/a	n/a	n/a	0.16	6.82	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	5/9/2017	0.281	30.4	10	0.18	6.7	74	191	0.00323	0.00393(J)	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.42	0.18	Non-Detect	0.144	Non-Detect	0.0484	0.00905(J)	0.00021(J)
GC-AP-MW-13	6/28/2017	0.153	26	9.4	0.18	6.58	71	176	0.00406	0.00406(J)	0.0874	Non-Detect	Non-Detect	0.00219(J)	Non-Detect	0.373	0.18	Non-Detect	0.146	Non-Detect	0.0598	0.0072(J)	0.000244(J)
GC-AP-MW-13	8/29/2017	0.112	22.3	9.3	0.19	6.4	72	163	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.19	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.25	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	2/28/2018	n/a	n/a	n/a	0.14	6.72	n/a	n/a	0.00199(J)	0.00278(J)	0.0984	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.14	Non-Detect	0.0738	Non-Detect	0.0346	0.00826(J)	Non-Detect
GC-AP-MW-13	6/6/2018	0.244	23.7	6.1	0.13	6.57	48	138	0.00261(J)	0.00352(J)	0.0951	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.258(U)	0.13	Non-Detect	0.148	Non-Detect	0.0253	0.00496(J)	0.000239(J)
GC-AP-MW-13	9/11/2018	n/a	26.8	14	n/a	6.64	62	185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	11/5/2018	0.104	29.4	18	0.15	6.69	81	208	0.00275(J)	0.00497(J)	0.113	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.441(U)	0.15	Non-Detect	0.0914	Non-Detect	0.044	Non-Detect	0.000623(J)
GC-AP-MW-13	3/26/2019	0.213	34.1	4.7	0.0775(J)	6.54	92.4	198	0.00219(J)	0.00251(J)	0.109	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.471	0.0775(J)	Non-Detect	0.123	Non-Detect	0.0262	0.0239	0.000215(J)
GC-AP-MW-13	9/11/2019	0.535	53.9	12.3	0.118	6.22	128	316	0.00261(J)	0.00664	0.275	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.557(U)	0.118	Non-Detect	0.246	Non-Detect	0.0226	Non-Detect	0.00214

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-14	2/16/2016	0.739	44.4	16.4	0.13(J)	6.21	108	340	Non-Detect	0.0202	0.0447	Non-Detect	Non-Detect	Non-Detect	0.00732(J)	<3	0.13(J)	Non-Detect	0.632	Non-Detect	0.00839(J)	Non-Detect	Non-Detect
GC-AP-MW-14	4/12/2016	0.733	43.2	15.9	0.137(J)	6.37	114	298	Non-Detect	0.0214	0.043	Non-Detect	Non-Detect	Non-Detect	0.00785(J)	<3	0.137(J)	Non-Detect	0.615	Non-Detect	0.00918(J)	Non-Detect	Non-Detect
GC-AP-MW-14	5/31/2016	0.603	43	13.6	0.149(J)	6.42	114	309	0.00062(J)	0.0156	0.0383	Non-Detect	Non-Detect	Non-Detect	0.00712(J)	0.624	0.149(J)	Non-Detect	0.613	Non-Detect	0.00877(J)	Non-Detect	Non-Detect
GC-AP-MW-14	8/17/2016	0.509	35.9	12.8	0.147(J)	6.42	85.4	269	Non-Detect	0.0153	0.0332	Non-Detect	Non-Detect	Non-Detect	0.00545(J)	0.49(U)	0.147(J)	Non-Detect	0.444	Non-Detect	0.0236	Non-Detect	Non-Detect
GC-AP-MW-14	10/12/2016	0.569	31.1	16.3	0.115(J)	6.38	53.5	n/a	Non-Detect	0.0254	0.0454	Non-Detect	Non-Detect	Non-Detect	0.00497(J)	-0.0237(U)	0.115(J)	Non-Detect	0.387	Non-Detect	0.0289	Non-Detect	Non-Detect
GC-AP-MW-14	11/1/2016	n/a	n/a	n/a	n/a	6.33	n/a	252	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	1/25/2017	0.671	42.7	16.4	n/a	6.37	75.4	259	0.00106(J)	0.0194	0.0567	Non-Detect	Non-Detect	Non-Detect	0.00454(J)	0.455(U)	n/a	Non-Detect	0.516	Non-Detect	0.00501(J)	Non-Detect	Non-Detect
GC-AP-MW-14	3/14/2017	n/a	n/a	n/a	0.11	6.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	5/9/2017	0.622	48.1	19	0.14	6.43	84	285	Non-Detect	0.0361	0.069	Non-Detect	Non-Detect	Non-Detect	0.00488(J)	0.451	0.14	Non-Detect	0.526	Non-Detect	0.0108	Non-Detect	Non-Detect
GC-AP-MW-14	6/28/2017	0.695	55	17	0.13	6.4	120	348	Non-Detect	0.022	0.0764	Non-Detect	Non-Detect	Non-Detect	0.00805(J)	0.63	0.13	Non-Detect	0.626	Non-Detect	0.00752(J)	Non-Detect	Non-Detect
GC-AP-MW-14	8/29/2017	1	83.6	17	0.14	6.32	180	528	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.14	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	2/27/2018	n/a	n/a	n/a	0.13	6.28	n/a	n/a	Non-Detect	0.0265	0.0908	Non-Detect	Non-Detect	Non-Detect	0.016	1.59	0.13	Non-Detect	0.562	Non-Detect	0.0121	Non-Detect	Non-Detect
GC-AP-MW-14	6/6/2018	1.01	167	14	0.15	6.25	450	932	Non-Detect	0.0372	0.064	Non-Detect	Non-Detect	Non-Detect	0.024	0.943	0.15	Non-Detect	1.06	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-14	9/12/2018	n/a	109	14	n/a	6.42	200	180	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	11/7/2018	0.908	105	15	0.19	6.42	180	528	Non-Detect	0.0289	0.0575	Non-Detect	Non-Detect	Non-Detect	0.0124	0.888	0.19	Non-Detect	0.604	Non-Detect	0.0155	Non-Detect	Non-Detect
GC-AP-MW-14	3/27/2019	1.33	162	14.9	0.248	6.41	335	834	Non-Detect	0.0264	0.0768	Non-Detect	Non-Detect	Non-Detect	0.0303	1.1	0.248	Non-Detect	1.11	Non-Detect	0.0167	Non-Detect	Non-Detect
GC-AP-MW-14	9/10/2019	1.49	125	13.5	0.209	6.11	193	658	Non-Detect	0.0263	0.0685	Non-Detect	Non-Detect	Non-Detect	0.0278	0.852	0.209	Non-Detect	0.765	Non-Detect	0.0125	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-15	2/17/2016	0.454	47.7	11.8	0.09(J)	6.02	187	408	Non-Detect	Non-Detect	0.022	Non-Detect	Non-Detect	Non-Detect	0.0169	<3	0.09(J)	Non-Detect	0.806	Non-Detect	Non-Detect	Non-Detect	0.000697(J)
GC-AP-MW-15	4/12/2016	0.444	44.4	12.6	0.107(J)	6.17	188	334	Non-Detect	Non-Detect	0.0242	Non-Detect	Non-Detect	Non-Detect	0.0158	<3	0.107(J)	Non-Detect	0.719	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	5/31/2016	0.424	45.3	12.9	0.145(J)	6.15	183	351	Non-Detect	Non-Detect	0.0224	Non-Detect	Non-Detect	Non-Detect	0.014	0.41(U)	0.145(J)	Non-Detect	0.735	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	8/16/2016	0.438	49.4	10.2	0.135(J)	6.21	196	367	Non-Detect	Non-Detect	0.0243	Non-Detect	Non-Detect	Non-Detect	0.0153	0.399(U)	0.135(J)	Non-Detect	0.699	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	10/11/2016	0.456	52.7	10.2	0.096(J)	6.14	216	n/a	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	0.0162	0.00389(U)	0.096(J)	Non-Detect	0.727	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	11/1/2016	n/a	n/a	n/a	n/a	6.15	n/a	372	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	1/24/2017	0.458	49.4	11.2	n/a	6.11	183	354	0.00111(J)	Non-Detect	0.0223	Non-Detect	Non-Detect	Non-Detect	0.0132	0.35(U)	n/a	Non-Detect	0.689	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	3/14/2017	n/a	n/a	n/a	0.09(J)	6.09	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	5/10/2017	0.486	47.4	14	0.11	6.11	160	332	Non-Detect	Non-Detect	0.0281	Non-Detect	Non-Detect	Non-Detect	0.014	0.0662(U)	0.11	Non-Detect	0.603	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	6/27/2017	0.454	44.9	14	0.1	6.09	150	331	Non-Detect	Non-Detect	0.0223	Non-Detect	Non-Detect	Non-Detect	0.0163	0.793	0.1	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	8/30/2017	0.441	44.4	14	0.13	6.1	160	317	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.13	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	2/28/2018	n/a	n/a	n/a	0.09(J)	6.11	n/a	n/a	Non-Detect	Non-Detect	0.0271	Non-Detect	Non-Detect	Non-Detect	0.0157	3.99	0.09(J)	Non-Detect	0.571	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	6/5/2018	0.543	45.1	13	0.13	6.05	160	318	Non-Detect	Non-Detect	0.0269	Non-Detect	Non-Detect	Non-Detect	0.0148	-0.365(U)	0.13	Non-Detect	0.492	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	9/11/2018	n/a	48.5	14	n/a	6.18	140	321	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	11/6/2018	0.614	49.2	14	0.12	6.09	160	331	Non-Detect	Non-Detect	0.0271	Non-Detect	Non-Detect	Non-Detect	0.0158	0.391(U)	0.12	Non-Detect	0.547	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	3/26/2019	0.697	54	13	0.113	6.1	157	334	Non-Detect	Non-Detect	0.0282	Non-Detect	Non-Detect	Non-Detect	0.0184	0.535	0.113	Non-Detect	0.57	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	9/10/2019	0.73	57.2	12.8	0.122	5.82	150	358	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0201	0.3(U)	0.122	Non-Detect	0.6	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-16	2/17/2016	1.47	57	12.5	0.2(J)	6.18	87.4	310	Non-Detect	0.0788	0.0368	Non-Detect	Non-Detect	Non-Detect	0.016	<3	0.2(J)	Non-Detect	0.626	Non-Detect	Non-Detect	Non-Detect	0.000687(J)
GC-AP-MW-16	4/13/2016	1.48	62.5	13.6	0.173(J)	6.28	92.7	372	Non-Detect	0.0759	0.044	Non-Detect	Non-Detect	Non-Detect	0.0139	<3	0.173(J)	Non-Detect	0.594	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	6/1/2016	1.22	54.4	14.2	0.253(J)	6.36	111	360	Non-Detect	0.292	0.0357	Non-Detect	Non-Detect	Non-Detect	0.0117	0.515	0.253(J)	Non-Detect	0.556	Non-Detect	Non-Detect	Non-Detect	0.000272(J)
GC-AP-MW-16	8/15/2016	1.31	56.2	13.6	0.224(J)	6.37	98.3	366	Non-Detect	0.105	0.0377	Non-Detect	Non-Detect	Non-Detect	0.0133	0.843	0.224(J)	Non-Detect	0.557	Non-Detect	Non-Detect	Non-Detect	0.000278(J)
GC-AP-MW-16	10/12/2016	1.37	56.6	13.8	0.187(J)	6.32	99.3	n/a	Non-Detect	0.0831	0.0431	Non-Detect	Non-Detect	Non-Detect	0.0147	0.397(U)	0.187(J)	Non-Detect	0.589	Non-Detect	Non-Detect	Non-Detect	0.000322(J)
GC-AP-MW-16	11/2/2016	n/a	n/a	n/a	n/a	6.33	n/a	374	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	1/24/2017	1.38	59.1	14.2	n/a	6.29	85.4	380	0.000935(J)	0.0472	0.0418	Non-Detect	Non-Detect	Non-Detect	0.0122	0.269(U)	n/a	Non-Detect	0.522	Non-Detect	Non-Detect	Non-Detect	0.000265(J)
GC-AP-MW-16	3/14/2017	n/a	n/a	n/a	0.23	6.27	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.23	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	5/10/2017	1.41	62.5	18	0.23	6.3	74	381	Non-Detect	0.0814	0.0449	Non-Detect	Non-Detect	Non-Detect	0.0133	0.454	0.23	Non-Detect	0.552	Non-Detect	Non-Detect	Non-Detect	0.000327(J)
GC-AP-MW-16	6/27/2017	1.43	63.6	17	0.22	6.28	75	404	Non-Detect	0.0693	0.042	Non-Detect	Non-Detect	Non-Detect	0.0141	1.25	0.22	Non-Detect	0.523	Non-Detect	Non-Detect	Non-Detect	0.000301(J)
GC-AP-MW-16	8/30/2017	1.36	65.7	16	0.28	6.34	87	420	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.28	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	2/28/2018	n/a	n/a	n/a	0.23	6.33	n/a	n/a	Non-Detect	0.0852	0.0595	Non-Detect	Non-Detect	Non-Detect	0.014	1.17	0.23	Non-Detect	0.544	Non-Detect	Non-Detect	Non-Detect	0.000321(J)
GC-AP-MW-16	6/5/2018	1.36	66.8	15	0.28	6.29	87	408	Non-Detect	0.0648	0.0471	Non-Detect	Non-Detect	Non-Detect	0.0114	0.337(U)	0.28	Non-Detect	0.49	Non-Detect	Non-Detect	Non-Detect	0.000288(J)
GC-AP-MW-16	9/12/2018	n/a	76.3	17	n/a	6.36	63	415	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	11/6/2018	1.47	77.4	15	0.24	6.37	97	447	Non-Detect	0.0701	0.0574	Non-Detect	Non-Detect	Non-Detect	0.0141	0.661	0.24	Non-Detect	0.54	Non-Detect	Non-Detect	Non-Detect	0.000354(J)
GC-AP-MW-16	3/26/2019	1.38	90	9.27	0.316	6.34	123	481	Non-Detect	0.0952	0.0626	Non-Detect	Non-Detect	Non-Detect	0.0177	1.18	0.316	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	0.00041(J)
GC-AP-MW-16	9/10/2019	1.69	86.3	12.7	0.267	6.35	68	453	Non-Detect	0.0786	0.0754	Non-Detect	Non-Detect	Non-Detect	0.0162	0.516(U)	0.267	Non-Detect	0.581	Non-Detect	Non-Detect	Non-Detect	0.000396(J)

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-17	2/17/2016	1.66	30.7	14.6	0.53	6.32	72.3	328	Non-Detect	0.177	0.0402	Non-Detect	Non-Detect	Non-Detect	0.0101	<3	0.53	Non-Detect	0.612	Non-Detect	0.066	Non-Detect	0.00067(J)
GC-AP-MW-17	4/13/2016	1.64	39.5	14.9	0.437	6.44	123	373	Non-Detect	0.271	0.0637	Non-Detect	Non-Detect	Non-Detect	0.0109	<3	0.437	Non-Detect	0.694	Non-Detect	0.0835	Non-Detect	Non-Detect
GC-AP-MW-17	6/1/2016	1.66	47.7	15.9	0.376	6.24	144	442	Non-Detect	0.251	0.0786	Non-Detect	Non-Detect	Non-Detect	0.0134	0.972	0.376	Non-Detect	0.675	Non-Detect	0.0835	Non-Detect	Non-Detect
GC-AP-MW-17	8/15/2016	1.83	45.6	19.5	0.362	6.34	50.1	392	Non-Detect	0.253	0.0634	Non-Detect	Non-Detect	Non-Detect	0.0134	1.43	0.362	Non-Detect	0.571	Non-Detect	0.0838	Non-Detect	Non-Detect
GC-AP-MW-17	10/12/2016	2.12	57.6	18.5	0.377	6.42	72.6	n/a	Non-Detect	0.243	0.0995	Non-Detect	Non-Detect	Non-Detect	0.0204	0.246(U)	0.377	Non-Detect	0.622	Non-Detect	0.111	Non-Detect	Non-Detect
GC-AP-MW-17	11/2/2016	n/a	n/a	n/a	n/a	6.48	n/a	469	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	1/24/2017	1.94	69.4	19	n/a	6.53	63.4	464	0.000997(J)	0.363	0.117	Non-Detect	Non-Detect	Non-Detect	0.0157	0.918	n/a	Non-Detect	0.752	Non-Detect	0.111	Non-Detect	Non-Detect
GC-AP-MW-17	3/14/2017	n/a	n/a	n/a	0.41	6.43	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.41	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	5/10/2017	1.99	66.2	24	0.36	6.33	82	492	Non-Detect	0.499	0.158	Non-Detect	Non-Detect	Non-Detect	0.0179	1.27	0.36	Non-Detect	0.622	Non-Detect	0.0566	Non-Detect	Non-Detect
GC-AP-MW-17	6/27/2017	2.18	63.8	24	0.38	6.38	44	516	Non-Detect	0.489	0.139	Non-Detect	Non-Detect	Non-Detect	0.0166	1.51	0.38	Non-Detect	0.597	Non-Detect	0.0702	Non-Detect	Non-Detect
GC-AP-MW-17	8/30/2017	1.71	75.1	18	0.38	6.31	230	646	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.38	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	2/28/2018	n/a	n/a	n/a	0.58	6.57	n/a	n/a	Non-Detect	0.532	0.199	Non-Detect	Non-Detect	Non-Detect	0.0251	1.05	0.58	Non-Detect	0.73	Non-Detect	0.0957	Non-Detect	Non-Detect
GC-AP-MW-17	6/5/2018	1.76	77.4	15	0.41	6.21	230	644	Non-Detect	0.382	0.149	Non-Detect	Non-Detect	Non-Detect	0.0456	1.07	0.41	Non-Detect	0.531	Non-Detect	0.0363	Non-Detect	Non-Detect
GC-AP-MW-17	9/12/2018	n/a	58.9	23	n/a	6.43	33	476	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	11/6/2018	1.74	81.6	11	0.45	6.47	220	634	Non-Detect	0.299	0.202	Non-Detect	Non-Detect	Non-Detect	0.0321	1.05	0.45	Non-Detect	0.583	Non-Detect	0.0418	Non-Detect	Non-Detect
GC-AP-MW-17	3/26/2019	1.74	84.7	9.52	0.573	6.52	161	516	0.000897(J)	0.32	0.242	Non-Detect	Non-Detect	Non-Detect	0.0192	1.57	0.573	Non-Detect	0.595	Non-Detect	0.062	Non-Detect	Non-Detect
GC-AP-MW-17	9/9/2019	2.33	66.4	15.4	0.477	5.84	57.3	500	Non-Detect	0.356	0.319	Non-Detect	Non-Detect	Non-Detect	0.0121	1.29	0.477	Non-Detect	0.571	Non-Detect	0.0681	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-18	2/17/2016	1.94	89.6	22.3	0.15(J)	6.23	60.2	464	Non-Detect	0.133	0.12	Non-Detect	Non-Detect	Non-Detect	0.0227	<3	0.15(J)	Non-Detect	0.67	Non-Detect	Non-Detect	Non-Detect	0.000404(J)
GC-AP-MW-18	4/12/2016	2.03	96.2	22.1	0.168(J)	6.3	68.2	491	Non-Detect	0.134	0.131	Non-Detect	Non-Detect	Non-Detect	0.0209	<3	0.168(J)	Non-Detect	0.655	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/1/2016	1.74	90.2	22	0.178(J)	6.24	61.4	468	Non-Detect	0.11	0.114	Non-Detect	Non-Detect	Non-Detect	0.02	1.55	0.178(J)	Non-Detect	0.666	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	8/15/2016	1.66	84.4	22.4	0.149(J)	6.25	56	454	Non-Detect	0.116	0.113	Non-Detect	Non-Detect	Non-Detect	0.0225	1.85	0.149(J)	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	10/12/2016	1.77	82.9	22.1	0.12(J)	6.26	36.6	n/a	Non-Detect	0.109	0.126	Non-Detect	Non-Detect	Non-Detect	0.0206	0.481	0.12(J)	Non-Detect	0.56	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	11/2/2016	n/a	n/a	n/a	n/a	6.3	n/a	422	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	1/24/2017	1.49	76.4	23.2	n/a	6.3	12.3	408	0.000984(J)	0.0825	0.126	Non-Detect	Non-Detect	Non-Detect	0.015	0.889	n/a	Non-Detect	0.374	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	3/14/2017	n/a	n/a	n/a	0.17	6.31	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.17	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	5/10/2017	1.65	77.4	26	0.17	6.34	10	358	Non-Detect	0.0776	0.138	Non-Detect	Non-Detect	Non-Detect	0.0141	1.01	0.17	Non-Detect	0.443	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/27/2017	1.66	75.4	25	0.18	6.32	9.7	382	Non-Detect	0.0672	0.12	Non-Detect	Non-Detect	Non-Detect	0.0144	1.17	0.18	Non-Detect	0.451	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	8/30/2017	1.53	78	25	0.21	6.38	7.8	392	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.21	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.702	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	2/28/2018	n/a	n/a	n/a	0.17	6.31	n/a	n/a	Non-Detect	0.063	0.143	Non-Detect	Non-Detect	Non-Detect	0.0136	n/a	0.17	Non-Detect	0.343	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/5/2018	1.36	66.3	25	0.17	6.16	13	352	Non-Detect	0.0661	0.128	Non-Detect	Non-Detect	Non-Detect	0.0138	0.999	0.17	Non-Detect	0.353	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	9/12/2018	n/a	67.8	23	n/a	6.29	28	339	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	11/6/2018	1.48	72.7	26	0.17	6.31	11	368	Non-Detect	0.0509	0.109	Non-Detect	Non-Detect	Non-Detect	0.0158	0.913	0.17	Non-Detect	0.369	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	3/26/2019	1.63	91.5	25.4	0.192	6.3	21.3	406	Non-Detect	0.0477	0.117	Non-Detect	Non-Detect	Non-Detect	0.0161	1.35	0.192	Non-Detect	0.378	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	9/9/2019	1.73	83.2	25.6	0.157	6.28	17.8	406	Non-Detect	0.0498	0.101	Non-Detect	Non-Detect	Non-Detect	0.0174	1.08	0.157	Non-Detect	0.408	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-21	2/16/2016	0.286	40.4	9.95	0.18(J)	7.15	125	264	Non-Detect	Non-Detect	0.0379	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.18(J)	Non-Detect	0.513	Non-Detect	0.0433	Non-Detect	Non-Detect
GC-AP-MW-21	4/13/2016	0.26	32.2	7.33	0.191(J)	7.1	119	226	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.191(J)	Non-Detect	0.532	Non-Detect	0.0567	Non-Detect	Non-Detect
GC-AP-MW-21	6/1/2016	0.283	29.3	6.97	0.201(J)	6.76	99.2	231	Non-Detect	Non-Detect	0.0254	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.126(U)	0.201(J)	Non-Detect	0.513	Non-Detect	0.0565	Non-Detect	Non-Detect
GC-AP-MW-21	8/16/2016	0.292	25.4	12	0.218(J)	6.99	71.9	181	Non-Detect	Non-Detect	0.0385	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.477	0.218(J)	Non-Detect	0.301	Non-Detect	0.0791	Non-Detect	Non-Detect
GC-AP-MW-21	10/12/2016	0.254	30.7	15.4	0.171(J)	6.89	93.9	225	Non-Detect	Non-Detect	0.0486	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.137(U)	0.171(J)	Non-Detect	0.22	Non-Detect	0.0767	Non-Detect	Non-Detect
GC-AP-MW-21	1/25/2017	0.133	36.8	24.7	n/a	6.84	103	277	0.00107(J)	Non-Detect	0.0371	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.55	n/a	Non-Detect	0.107	Non-Detect	0.0398	Non-Detect	Non-Detect
GC-AP-MW-21	3/15/2017	n/a	n/a	n/a	0.16	6.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	5/9/2017	0.304	36.1	17	0.17	6.83	100	255	Non-Detect	Non-Detect	0.0454	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.182(U)	0.17	Non-Detect	0.113	Non-Detect	0.0467	Non-Detect	Non-Detect
GC-AP-MW-21	6/28/2017	0.243	26.9	11	0.18	6.98	69	175	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.228(U)	0.18	Non-Detect	0.0962	Non-Detect	0.0833	Non-Detect	Non-Detect
GC-AP-MW-21	8/29/2017	0.249	29.4	12	0.23	6.8	77	218	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.23	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.293(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	2/28/2018	n/a	n/a	n/a	0.2	6.87	n/a	n/a	Non-Detect	Non-Detect	0.0376	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.2	Non-Detect	0.0594	Non-Detect	0.0643	Non-Detect	Non-Detect
GC-AP-MW-21	6/6/2018	0.245	30.2	9.7	0.19	6.94	81	207	Non-Detect	Non-Detect	0.0355	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.056(U)	0.19	Non-Detect	0.0469(J)	Non-Detect	0.0579	Non-Detect	Non-Detect
GC-AP-MW-21	9/10/2018	n/a	28.8	12	n/a	6.74	64	197	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	11/5/2018	0.151	29.7	16	0.22	6.66	68	200	Non-Detect	Non-Detect	0.0509	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.637	0.22	Non-Detect	0.0902	Non-Detect	0.0548	Non-Detect	Non-Detect
GC-AP-MW-21	3/26/2019	0.0834(J)	32.4	17.2	0.219	6.84	92	218	0.000964(J)	Non-Detect	0.047	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.405	0.219	Non-Detect	0.0531	Non-Detect	0.071	Non-Detect	Non-Detect
GC-AP-MW-21	9/10/2019	0.16	28.4	11	0.194	6.58	63.1	198	Non-Detect	Non-Detect	0.0568	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0889(U)	0.194	Non-Detect	0.0862	Non-Detect	0.0609	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-23	2/17/2016	0.0271(J)	38.7	1.54	0.08(J)	6.8	14.7	142	Non-Detect	Non-Detect	0.0285	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000364(J)
GC-AP-MW-23	4/12/2016	Non-Detect	42.7	1.51	0.077(J)	6.54	20	155	Non-Detect	Non-Detect	0.035	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.077(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00205(J)	Non-Detect
GC-AP-MW-23	6/1/2016	Non-Detect	41.8	1.46	0.101(J)	6.49	20.1	148	Non-Detect	Non-Detect	0.0328	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.044(U)	0.101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	8/16/2016	Non-Detect	40.9	1.5	0.093(J)	6.57	19.1	132	Non-Detect	Non-Detect	0.033	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.213(U)	0.093(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	10/11/2016	0.024(J)	38.1	1.52	0.059(J)	6.54	18.4	n/a	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.184(U)	0.059(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	11/2/2016	n/a	n/a	n/a	n/a	6.54	n/a	115	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	1/24/2017	0.0333(J)	27.7	1.38	n/a	6.42	15	107	0.000886(J)	Non-Detect	0.0286	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.251(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	3/14/2017	n/a	n/a	n/a	0.07(J)	6.59	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	5/9/2017	Non-Detect	29.3	2.4	0.08(J)	6.42	14	80.7	Non-Detect	Non-Detect	0.0257	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.631	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	6/27/2017	Non-Detect	28.6	2.1	0.08(J)	6.44	14	96.7	Non-Detect	Non-Detect	0.0246	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.145(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	8/29/2017	Non-Detect	32.3	2.4	0.1	6.43	16	120	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	2/27/2018	n/a	n/a	n/a	0.08(J)	6.49	n/a	n/a	Non-Detect	Non-Detect	0.0287	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.402(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	6/5/2018	Non-Detect	34.5	1.7(J)	0.09(J)	6.43	14	113	Non-Detect	Non-Detect	0.0279	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.313(U)	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	9/11/2018	n/a	32	1.5(J)	n/a	6.35	13	108	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	11/7/2018	Non-Detect	30.3	1.4(J)	0.08(J)	6.37	14	96.7	Non-Detect	Non-Detect	0.0281	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.496(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	3/26/2019	Non-Detect	31.3	1.23	0.123	6.46	12.3	103	Non-Detect	Non-Detect	0.0295	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.315(U)	0.123	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	9/10/2019	Non-Detect	30.7	1.38	0.0914(J)	5.85	12.4	107	Non-Detect	Non-Detect	0.0338	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.219(U)	0.0914(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-24	2/17/2016	Non-Detect	6.54	3.3	0.02(J)	5.39	10.4	53	Non-Detect	Non-Detect	0.0305	Non-Detect	Non-Detect	Non-Detect	0.00219(J)	<3	0.02(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00039(J)
GC-AP-MW-24	4/12/2016	Non-Detect	6.15	3.25	0.026(J)	5.29	11.3	38.7	Non-Detect	Non-Detect	0.0312	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.026(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	6/1/2016	Non-Detect	5.7	3.55	0.057(J)	5.39	10.4	46	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.407	0.057(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	8/16/2016	Non-Detect	6.77	3.45	0.046(J)	5.51	12.2	48	Non-Detect	Non-Detect	0.0308	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.547(U)	0.046(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	10/11/2016	Non-Detect	8.84	3.78	Non-Detect	5.44	19.8	n/a	Non-Detect	Non-Detect	0.042	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.845	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	11/2/2016	n/a	n/a	n/a	n/a	5.49	n/a	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	1/24/2017	Non-Detect	12.8	4.61	n/a	5.44	30.7	78.7	0.000858(J)	Non-Detect	0.0446	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.403(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	3/14/2017	n/a	n/a	n/a	Non-Detect	5.48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	5/10/2017	Non-Detect	12.4	5.9	Non-Detect	5.43	33	92.7	Non-Detect	Non-Detect	0.0568	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.645	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	6/28/2017	Non-Detect	17.9	5.7	Non-Detect	5.49	56	118	Non-Detect	Non-Detect	0.0663	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.93	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00268(J)	Non-Detect
GC-AP-MW-24	8/29/2017	Non-Detect	19	6.8	0.04(J)	5.46	61	128	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	2/27/2018	n/a	n/a	n/a	Non-Detect	5.48	n/a	n/a	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.88	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00281(J)	Non-Detect
GC-AP-MW-24	6/5/2018	Non-Detect	30	7.9	0.04(J)	5.31	97	171	Non-Detect	Non-Detect	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.13	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00294(J)	Non-Detect
GC-AP-MW-24	9/11/2018	n/a	28.7	6.1	n/a	5.36	83	170	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	11/7/2018	Non-Detect	30.7	5.2	Non-Detect	5.34	91	163	Non-Detect	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.72	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	3/26/2019	Non-Detect	32.3	6.92	Non-Detect	5.32	103	174	Non-Detect	Non-Detect	0.0978	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.21	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00208(J)	Non-Detect
GC-AP-MW-24	9/10/2019	Non-Detect	32.8	4.39	0.0545(J)	4.9	83.4	167	Non-Detect	Non-Detect	0.0967	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.21	0.0545(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
GWPS		N/R	N/R	N/R	4	N/R	N/R	N/R	0.006	0.01	2	0.004	0.005	0.1	0.0167	5	4	0.015	0.04	0.002	0.1	0.05	0.002
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-25	2/17/2016	0.0922(J)	10.2	22.9	0.02(J)	5.36	28.7	144	Non-Detect	Non-Detect	0.0895	Non-Detect	Non-Detect	Non-Detect	0.00683(J)	<3	0.02(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000232(J)
GC-AP-MW-25	4/12/2016	0.0935(J)	10	22.2	0.021(J)	5.31	32.5	140	Non-Detect	Non-Detect	0.0966	Non-Detect	Non-Detect	Non-Detect	0.00656(J)	<3	0.021(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/1/2016	0.0826(J)	9.87	22.3	0.051(J)	5.35	31.9	139	Non-Detect	Non-Detect	0.0872	Non-Detect	Non-Detect	Non-Detect	0.00637(J)	0.1(U)	0.051(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	8/17/2016	0.092(J)	8.88	22.1	0.037(J)	5.38	30.5	142	Non-Detect	Non-Detect	0.0875	Non-Detect	Non-Detect	Non-Detect	0.00659(J)	0.372(U)	0.037(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	10/11/2016	0.0976(J)	9.22	21.8	Non-Detect	5.31	32.3	n/a	Non-Detect	Non-Detect	0.1	0.000715(J)	Non-Detect	Non-Detect	0.00687(J)	0.277(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	11/2/2016	n/a	n/a	n/a	n/a	5.39	n/a	128	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	1/24/2017	0.0877(J)	8.72	21.8	n/a	5.29	33.5	124	0.00111(J)	Non-Detect	0.0856	Non-Detect	Non-Detect	Non-Detect	0.00522(J)	0.585	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	3/14/2017	n/a	n/a	n/a	Non-Detect	5.19	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	5/9/2017	0.0953(J)	8.56	23	Non-Detect	5.29	33	136	Non-Detect	Non-Detect	0.093	Non-Detect	Non-Detect	Non-Detect	0.00646(J)	0.489	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/28/2017	0.0835(J)	7.16	22	0.04(J)	5.27	35	145	Non-Detect	Non-Detect	0.0829	Non-Detect	Non-Detect	Non-Detect	0.00721(J)	0.333	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	8/29/2017	0.0914(J)	8.32	22	Non-Detect	5.27	37	139	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.08	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	2/28/2018	n/a	n/a	n/a	Non-Detect	5.28	n/a	n/a	Non-Detect	Non-Detect	0.0958	Non-Detect	Non-Detect	Non-Detect	0.00771(J)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/6/2018	0.102	9.05	20	Non-Detect	5.21	47	153	Non-Detect	Non-Detect	0.0892	Non-Detect	Non-Detect	Non-Detect	0.00712(J)	0.016(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	9/12/2018	n/a	8.98	20	n/a	5.23	41	156	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	11/6/2018	0.0995(J)	9.21	21	Non-Detect	5.28	48	153	Non-Detect	Non-Detect	0.0807	Non-Detect	Non-Detect	Non-Detect	0.00791	0.0751(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	3/27/2019	0.113	9.77	18.4	Non-Detect	5.27	62.4	178	Non-Detect	Non-Detect	0.0901	Non-Detect	Non-Detect	Non-Detect	0.0114	0.309(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	9/10/2019	0.105	9.28	17.7	Non-Detect	5.15	66	182	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	0.0127	0.578	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-26	8/17/2016	Non-Detect	5.88	2.44	0.159(J)	5.85	16.2	64	Non-Detect	0.0017(J)	0.0476	0.00161(J)	Non-Detect	Non-Detect	0.0167	0.66	0.159(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/20/2016	Non-Detect	5.95	2.54	0.126(J)	5.82	14.9	60	Non-Detect	0.00283(J)	0.0436	0.00155(J)	Non-Detect	Non-Detect	0.0122	0.582	0.126(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	10/12/2016	Non-Detect	6.1	2.67	0.1(J)	5.76	12.4	54.7	Non-Detect	0.00218(J)	0.0397	0.00138(J)	Non-Detect	Non-Detect	0.00839(J)	-0.183(U)	0.1(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	11/15/2016	Non-Detect	6.28	2.94	0.016(J)	5.79	8.6	n/a	Non-Detect	0.00124(J)	0.0369	0.00109(J)	Non-Detect	Non-Detect	0.00562(J)	0.262(U)	0.016(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	11/29/2016	n/a	n/a	n/a	n/a	5.73	n/a	42	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	1/4/2017	Non-Detect	4.97	2.92	Non-Detect	5.69	12.2	56	Non-Detect	0.0028(J)	0.0518	0.00141(J)	Non-Detect	Non-Detect	0.00655(J)	0.255(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	1/23/2017	0.0217(J)	5.17	3.21	n/a	5.45	16	50.7	0.001(J)	0.00257(J)	0.0662	0.00171(J)	Non-Detect	Non-Detect	0.0116	0.871	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	Non-Detect
GC-AP-MW-26	3/13/2017	n/a	n/a	n/a	0.31	4.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.31	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	5/9/2017	Non-Detect	15.7	2.5	0.25	4.82	55	126	Non-Detect	0.00138(J)	0.0691	0.00226(J)	0.000706(J)	Non-Detect	0.0167	0.575	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0072(J)	Non-Detect
GC-AP-MW-26	6/27/2017	Non-Detect	14.2	3	0.22	5.27	45	93.3	Non-Detect	Non-Detect	0.0603	0.0017(J)	0.000429(J)	Non-Detect	0.0109	0.459	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00443(J)	Non-Detect
GC-AP-MW-26	8/29/2017	Non-Detect	11.1	3.6	0.22	5.28	37	84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	2/27/2018	n/a	n/a	n/a	0.08(J)	5.11	n/a	n/a	Non-Detect	Non-Detect	0.0386	0.00147(J)	Non-Detect	Non-Detect	0.00278(J)	1.3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	6/5/2018	Non-Detect	3.93	2.2	0.07(J)	5.24	9.3	38.7	Non-Detect	Non-Detect	0.0356	0.000821(J)	Non-Detect	Non-Detect	0.00223(J)	0.269(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/11/2018	n/a	3.76	1.5(J)	n/a	5.28	7.8	35.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	11/6/2018	Non-Detect	4.81	2.5	0.07(J)	5.54	6	40.7	Non-Detect	Non-Detect	0.0387	0.000757(J)	Non-Detect	Non-Detect	0.00202(J)	0.328(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	3/26/2019	Non-Detect	3.18	2	Non-Detect	5.4	6.86	36.7	Non-Detect	Non-Detect	0.0419	0.00092(J)	Non-Detect	Non-Detect	Non-Detect	0.571	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/11/2019	Non-Detect	3.98	2.34	0.0716(J)	5.53	5.29	40.7	Non-Detect	Non-Detect	0.0468	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.561	0.0716(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-27	8/17/2016	Non-Detect	1.1	1.78	0.039(J)	5.47	0.928(J)	36.7	Non-Detect	Non-Detect	0.0803	Non-Detect	0.000211(J)	Non-Detect	0.00692(J)	0.386(U)	0.039(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/20/2016	Non-Detect	0.771	1.61	0.01	5.22	0.478(J)	25.3	Non-Detect	Non-Detect	0.0679	Non-Detect	Non-Detect	Non-Detect	0.00232(J)	0.794	0.01	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	10/12/2016	0.02(J)	0.711	1.51	Non-Detect	5.1	0.727(J)	Non-Detect	Non-Detect	Non-Detect	0.0644	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.81	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	11/15/2016	Non-Detect	0.641	1.5	Non-Detect	5.07	0.448(J)	n/a	Non-Detect	Non-Detect	0.0628	Non-Detect	0.000216(J)	Non-Detect	Non-Detect	0.366(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	11/29/2016	n/a	n/a	n/a	n/a	5.1	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	1/4/2017	Non-Detect	0.797	1.53	Non-Detect	5.3	0.627(J)	27.3	Non-Detect	Non-Detect	0.0477	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.356(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	1/23/2017	0.0287(J)	0.655	1.62	n/a	5.12	1.34	Non-Detect	0.00083(J)	Non-Detect	0.0482	Non-Detect	0.000231(J)	Non-Detect	0.00203(J)	0.429(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	3/14/2017	n/a	n/a	n/a	Non-Detect	4.74	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	5/9/2017	Non-Detect	0.538	2.2	Non-Detect	4.83	Non-Detect	28.7	Non-Detect	Non-Detect	0.0611	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.62	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	6/27/2017	Non-Detect	0.413(J)	1.9(J)	Non-Detect	4.87	Non-Detect	27.3	Non-Detect	Non-Detect	0.0492	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.319(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	8/29/2017	Non-Detect	0.504	2	Non-Detect	4.71	Non-Detect	30.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	2/27/2018	n/a	n/a	n/a	Non-Detect	4.96	n/a	n/a	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.271(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	6/5/2018	Non-Detect	0.339(J)	1.9(J)	Non-Detect	5	2.1(J)	26	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.391	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/11/2018	n/a	0.776	Non-Detect	n/a	4.94	Non-Detect	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	11/6/2018	Non-Detect	0.746	1.9(J)	Non-Detect	4.9	Non-Detect	26	Non-Detect	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.646	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	3/26/2019	Non-Detect	0.526	2.18	Non-Detect	4.96	1.66	Non-Detect	0.00137(J)	Non-Detect	0.0499	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.498	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/11/2019	Non-Detect	0.638	1.7	Non-Detect	4.85	1.29	27.3	Non-Detect	Non-Detect	0.0574	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.368(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-28	8/17/2016	Non-Detect	7.74	1.77	0.055(J)	6.15	6.46	65.3	Non-Detect	Non-Detect	0.336	Non-Detect	0.000742(J)	Non-Detect	0.00599(J)	1.47	0.055(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/20/2016	Non-Detect	2.43	1.56	0.021	4.99	8.3	44	Non-Detect	Non-Detect	0.341	Non-Detect	0.000857(J)	Non-Detect	0.00466(J)	1.24	0.021	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	10/12/2016	Non-Detect	2.46	1.54	Non-Detect	4.88	8.36	n/a	Non-Detect	Non-Detect	0.347	Non-Detect	0.000912(J)	Non-Detect	0.00394(J)	0.899	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	10/31/2016	n/a	n/a	n/a	n/a	4.87	n/a	38.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	11/15/2016	Non-Detect	2.28	1.53	Non-Detect	4.81	8.75	n/a	Non-Detect	Non-Detect	0.332	Non-Detect	0.000821(J)	Non-Detect	0.00296(J)	0.933	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	11/29/2016	n/a	n/a	n/a	n/a	4.84	n/a	34	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	1/4/2017	Non-Detect	2.7	1.58	Non-Detect	4.88	7.85	42	Non-Detect	Non-Detect	0.299	Non-Detect	0.000718(J)	Non-Detect	0.00448(J)	1.54	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	1/24/2017	0.0331(J)	4.19	1.71	n/a	5.4	6.62	45.3	0.00096(J)	Non-Detect	0.264	Non-Detect	0.000716(J)	Non-Detect	0.00259(J)	0.868	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	3/14/2017	n/a	n/a	n/a	Non-Detect	5.13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	5/9/2017	Non-Detect	3.28	2.1	Non-Detect	4.96	5.6	49.3	Non-Detect	Non-Detect	0.322	Non-Detect	0.000746(J)	Non-Detect	Non-Detect	1.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	6/27/2017	Non-Detect	3.76	2	Non-Detect	5.34	5.3	46	Non-Detect	Non-Detect	0.278	Non-Detect	0.00065(J)	Non-Detect	Non-Detect	0.925	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	8/30/2017	Non-Detect	2.31	1.5(J)	Non-Detect	4.69	8.2	38.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	2/27/2018	n/a	n/a	n/a	Non-Detect	4.91	n/a	n/a	Non-Detect	Non-Detect	0.312	Non-Detect	0.000752(J)	Non-Detect	Non-Detect	0.0271(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	6/5/2018	Non-Detect	2.76	1.2(J)	Non-Detect	4.87	8.3	34.7	Non-Detect	Non-Detect	0.243	Non-Detect	0.000731(J)	Non-Detect	Non-Detect	0.792	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/11/2018	n/a	2.04	Non-Detect	n/a	4.65	8.9	34.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	11/6/2018	Non-Detect	2	Non-Detect	Non-Detect	4.67	8.6	36	Non-Detect	Non-Detect	0.249	Non-Detect	0.000646(J)	Non-Detect	Non-Detect	0.926	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	3/26/2019	Non-Detect	2.13	1.2	Non-Detect	4.92	10.1	30	0.000975(J)	Non-Detect	0.232	Non-Detect	0.000582(J)	Non-Detect	Non-Detect	1.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/11/2019	Non-Detect	1.98	1.26	0.0649(J)	4.33	10.6	40	Non-Detect	Non-Detect	0.246	Non-Detect	0.000573(J)	Non-Detect	Non-Detect	0.995	0.0649(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-29	8/16/2016	Non-Detect	2.02	2.21	0.05(J)	6.21	0.894(J)	41.3	Non-Detect	0.00199(J)	0.0527	Non-Detect	Non-Detect	Non-Detect	0.0122	0.522	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/20/2016	Non-Detect	1.22	2.12	0.015(J)	6.05	Non-Detect	42.7	Non-Detect	0.00155(J)	0.0698	Non-Detect	Non-Detect	Non-Detect	0.012	0.746	0.015(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	10/11/2016	Non-Detect	1.48	2.24	Non-Detect	6.2	Non-Detect	n/a	Non-Detect	0.00231(J)	0.0799	Non-Detect	Non-Detect	Non-Detect	0.0135	0.819	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	10/31/2016	n/a	n/a	n/a	n/a	6.61	n/a	140	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	11/15/2016	0.0229(J)	1.36	6.65	Non-Detect	6.64	1.19	n/a	Non-Detect	0.0044(J)	0.0479	Non-Detect	Non-Detect	Non-Detect	0.00938(J)	0.516	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00308(J)	Non-Detect	Non-Detect
GC-AP-MW-29	11/29/2016	n/a	n/a	n/a	n/a	6.39	n/a	78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	1/4/2017	Non-Detect	1.11	2.15	Non-Detect	6.06	Non-Detect	34	Non-Detect	0.00123(J)	0.0513	Non-Detect	Non-Detect	Non-Detect	0.00859(J)	0.648(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	1/26/2017	Non-Detect	1.03	2.31	n/a	6.02	0.6(J)	32.7	0.00092(J)	0.00169(J)	0.0674	Non-Detect	0.000228(J)	Non-Detect	0.0104	0.852	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	3/13/2017	n/a	n/a	n/a	Non-Detect	5.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	5/9/2017	Non-Detect	0.289(J)	2.3	Non-Detect	5.05	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0836	Non-Detect	0.000277(J)	Non-Detect	0.0119	0.148(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	6/27/2017	Non-Detect	0.292(J)	2.1	Non-Detect	4.9	Non-Detect	30.7	Non-Detect	Non-Detect	0.0661	Non-Detect	Non-Detect	Non-Detect	0.0106	0.393	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	8/30/2017	Non-Detect	0.336(J)	2.8	Non-Detect	4.73	Non-Detect	25.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	2/27/2018	n/a	n/a	n/a	Non-Detect	4.87	n/a	n/a	Non-Detect	Non-Detect	0.05	Non-Detect	Non-Detect	Non-Detect	0.0027(J)	0.695	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	6/5/2018	Non-Detect	0.2(J)	1.8(J)	Non-Detect	4.89	1.4(J)	Non-Detect	Non-Detect	Non-Detect	0.0433	Non-Detect	Non-Detect	Non-Detect	0.00317(J)	0.145(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/11/2018	n/a	0.171(J)	Non-Detect	n/a	4.88	Non-Detect	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	11/6/2018	Non-Detect	0.193(J)	Non-Detect	Non-Detect	4.86	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0379	Non-Detect	Non-Detect	Non-Detect	0.00367(J)	0.513(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	3/26/2019	Non-Detect	0.223(J)	1.07	Non-Detect	4.97	0.594(J)	Non-Detect	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.598	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/11/2019	Non-Detect	0.158(J)	1.19	Non-Detect	3.96	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0404	Non-Detect	Non-Detect	Non-Detect	0.00265(J)	0.237(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Greene County Ash Pond
Alabama Power Company

		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-30	8/16/2016	Non-Detect	1.24	2.54	0.036(J)	5.39	0.702(J)	Non-Detect	Non-Detect	Non-Detect	0.0376	Non-Detect	Non-Detect	Non-Detect	0.00548(J)	0.434(U)	0.036(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/20/2016	Non-Detect	1.11	2.51	Non-Detect	5.37	Non-Detect	26.7	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0026(J)	0.51	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	10/11/2016	Non-Detect	1.22	2.34	Non-Detect	5.39	Non-Detect	n/a	Non-Detect	Non-Detect	0.0396	Non-Detect	Non-Detect	Non-Detect	0.00214(J)	0.166(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	10/31/2016	n/a	n/a	n/a	n/a	5.36	n/a	25.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	11/15/2016	Non-Detect	1.34	2.1	Non-Detect	5.33	Non-Detect	n/a	Non-Detect	Non-Detect	0.0359	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.589	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	11/29/2016	n/a	n/a	n/a	n/a	5.33	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	1/4/2017	Non-Detect	2.39	2.44	Non-Detect	5.49	Non-Detect	34.7	Non-Detect	Non-Detect	0.0238	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.659	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	1/23/2017	Non-Detect	1.83	2.37	n/a	5.48	0.493(J)	33.3	0.000701(J)	Non-Detect	0.029	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.227(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	3/14/2017	n/a	n/a	n/a	Non-Detect	5.17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	5/9/2017	Non-Detect	0.823	2.8	Non-Detect	5.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0409	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.436(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	6/27/2017	Non-Detect	0.956	2.1	Non-Detect	5.29	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0303	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.197(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	8/30/2017	Non-Detect	1.04	3	Non-Detect	5.09	Non-Detect	28	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	2/27/2018	n/a	n/a	n/a	Non-Detect	5.25	n/a	n/a	Non-Detect	Non-Detect	0.0383	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.896	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	6/5/2018	Non-Detect	1.18	2.3	Non-Detect	5.12	Non-Detect	28.7	Non-Detect	Non-Detect	0.0633	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.342(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/11/2018	n/a	1.5	1.5(J)	n/a	5.19	Non-Detect	29.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	11/6/2018	Non-Detect	1.64	1.4(J)	Non-Detect	5.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.928	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	3/26/2019	Non-Detect	1.33	2.42	Non-Detect	5.16	Non-Detect	Non-Detect	0.000854(J)	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.3	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/11/2019	Non-Detect	0.925	3.72	Non-Detect	4.11	Non-Detect	34	Non-Detect	Non-Detect	0.0855	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.995	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-31	8/16/2016	Non-Detect	39.5	5.32	0.087(J)	7.13	1.78	142	Non-Detect	0.00185(J)	0.0226	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.34	0.087(J)	Non-Detect	Non-Detect	Non-Detect	0.00201(J)	Non-Detect	Non-Detect
GC-AP-MW-31	9/19/2016	Non-Detect	34.5	5.29	0.045(J)	6.94	2.06	121	Non-Detect	0.00121(J)	0.0202	Non-Detect	Non-Detect	Non-Detect	0.00242(J)	0.561(U)	0.045(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	10/11/2016	Non-Detect	32.4	5.26	0.034(J)	6.82	2.33	n/a	Non-Detect	0.00111(J)	0.0219	Non-Detect	Non-Detect	Non-Detect	0.0024(J)	0.118(U)	0.034(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	11/1/2016	n/a	n/a	n/a	n/a	6.71	n/a	103	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	11/14/2016	Non-Detect	26.5	5.28	Non-Detect	6.57	2.31	n/a	Non-Detect	Non-Detect	0.0215	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.984	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	11/28/2016	n/a	n/a	n/a	n/a	6.57	n/a	84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	1/3/2017	Non-Detect	22.6	5.18	Non-Detect	6.56	2.81	89.3	Non-Detect	Non-Detect	0.019	Non-Detect	Non-Detect	Non-Detect	0.00217(J)	0.473(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	1/24/2017	0.0282(J)	19.5	5.41	n/a	6.41	3.34	83.3	0.000928(J)	Non-Detect	0.0167	Non-Detect	Non-Detect	Non-Detect	0.00239(J)	-0.422(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	3/14/2017	n/a	n/a	n/a	Non-Detect	6.37	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	5/10/2017	Non-Detect	15.7	5.8	0.05(J)	6.41	2.9(J)	31.3	Non-Detect	Non-Detect	0.0246	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.706	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	6/27/2017	Non-Detect	13.8	5.4	0.05(J)	6.14	3.4(J)	67.3	Non-Detect	Non-Detect	0.0238	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.412	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	8/30/2017	Non-Detect	11.1	6	Non-Detect	6.08	3.7(J)	64	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	2/27/2018	n/a	n/a	n/a	Non-Detect	5.99	n/a	n/a	Non-Detect	Non-Detect	0.0231	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.314(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	6/5/2018	Non-Detect	9.12	5.2	Non-Detect	5.93	3.7(J)	50	Non-Detect	Non-Detect	0.0228	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.218(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	9/11/2018	n/a	7.5	5.5	n/a	5.86	2.2(J)	53.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	11/6/2018	Non-Detect	7.39	5.1	Non-Detect	5.89	3.1(J)	66	Non-Detect	Non-Detect	0.0211	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.566(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	3/27/2019	Non-Detect	7.65	5.26	Non-Detect	5.95	3.55	48.7	Non-Detect	Non-Detect	0.025	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.29(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	9/11/2019	Non-Detect	6.96	5.31	Non-Detect	5.85	3.83	52.7	Non-Detect	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.28(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-32	8/16/2016	Non-Detect	9.33	4.24	0.054(J)	6	2.06	49.3	Non-Detect	Non-Detect	0.0134	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.951	0.054(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/19/2016	Non-Detect	9.26	4.13	0.023(J)	6	1.44	44.7	Non-Detect	Non-Detect	0.0125	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.242(U)	0.023(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	10/11/2016	Non-Detect	9.31	4.07	0.011(J)	6.02	1.38	n/a	Non-Detect	Non-Detect	0.0128	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.34(U)	0.011(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	11/1/2016	n/a	n/a	n/a	n/a	5.97	n/a	48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	11/14/2016	Non-Detect	9.17	4.08	Non-Detect	5.98	1.15	n/a	Non-Detect	Non-Detect	0.0129	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.447(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	11/28/2016	n/a	n/a	n/a	n/a	6	n/a	40.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	1/3/2017	Non-Detect	9.66	4.06	Non-Detect	6.03	1.57	49.3	Non-Detect	Non-Detect	0.0116	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.729	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	1/24/2017	Non-Detect	9.67	4.4	n/a	5.9	2.06	48.7	0.00091(J)	Non-Detect	0.0118	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.184(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	3/14/2017	n/a	n/a	n/a	Non-Detect	6.07	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	5/10/2017	Non-Detect	9.81	4.4	0.05(J)	6	2.1(J)	46.7	Non-Detect	Non-Detect	0.0142	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	5/31/2017	n/a	n/a	n/a	n/a	6.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.454	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	6/27/2017	Non-Detect	9.88	4	0.04(J)	6.05	2.7(J)	55.3	Non-Detect	Non-Detect	0.0127	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.111(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	8/30/2017	Non-Detect	10.3	4.8	0.04(J)	6.13	2.6(J)	57.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	2/27/2018	n/a	n/a	n/a	0.04(J)	6.1	n/a	n/a	Non-Detect	Non-Detect	0.0135	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.146(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	6/5/2018	Non-Detect	11.4	3.8	0.04(J)	6.05	3.1(J)	52.7	Non-Detect	Non-Detect	0.0126	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.128(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/11/2018	n/a	10.5	4.1	n/a	6.07	1.6(J)	60	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	11/5/2018	Non-Detect	10.5	3.9	Non-Detect	6.01	2.4(J)	53.3	Non-Detect	Non-Detect	0.0123	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0946(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	3/27/2019	Non-Detect	11.6	3.9	Non-Detect	6.15	3.24	46.7	Non-Detect	Non-Detect	0.0134	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.5	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/11/2019	Non-Detect	9.95	4.21	0.0518(J)	5.87	2.66	55.3	Non-Detect	Non-Detect	0.0147	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.464(U)	0.0518(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-33	8/16/2016	0.0268(J)	5.54	4.88	0.061(J)	6.34	9.33	101	Non-Detect	0.00122(J)	0.0304	Non-Detect	Non-Detect	Non-Detect	0.00923(J)	0.534(U)	0.061(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/19/2016	0.0225(J)	3.01	4.45	0.018(J)	6.11	11.2	80	Non-Detect	Non-Detect	0.0215	Non-Detect	Non-Detect	Non-Detect	0.00539(J)	0.238(U)	0.018(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	10/11/2016	0.0304(J)	2.74	4.36	Non-Detect	5.99	12.6	n/a	Non-Detect	Non-Detect	0.0236	Non-Detect	Non-Detect	Non-Detect	0.00506(J)	0.158(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	11/1/2016	n/a	n/a	n/a	n/a	5.84	n/a	78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	11/14/2016	0.0355(J)	2.47	4.42	Non-Detect	5.83	12.4	n/a	Non-Detect	Non-Detect	0.0206	Non-Detect	Non-Detect	Non-Detect	0.00399(J)	0.641	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	11/28/2016	n/a	n/a	n/a	n/a	5.79	n/a	68.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	1/3/2017	0.0304(J)	2.94	5.18	Non-Detect	5.39	14.3	60.7	Non-Detect	Non-Detect	0.0409	Non-Detect	Non-Detect	Non-Detect	0.0037(J)	0.834	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	1/25/2017	Non-Detect	2.91	5.66	n/a	5.09	15.2	54.7	0.00112(J)	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	0.0077(J)	0.605	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	3/14/2017	n/a	n/a	n/a	Non-Detect	4.99	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	5/10/2017	Non-Detect	2.27	8	0.06(J)	4.63	12	60.7	Non-Detect	Non-Detect	0.0798	Non-Detect	Non-Detect	Non-Detect	0.00291(J)	0.563	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	6/27/2017	Non-Detect	2.2	7.2	0.07(J)	4.76	13	58	Non-Detect	Non-Detect	0.0679	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	0.937	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	8/30/2017	Non-Detect	2.26	6.9	0.08(J)	4.85	15	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.08(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	2/27/2018	n/a	n/a	n/a	0.07(J)	4.69	n/a	n/a	Non-Detect	Non-Detect	0.0856	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.475	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	6/5/2018	Non-Detect	2.97	4.2	0.1	4.62	17	71.3	Non-Detect	Non-Detect	0.0875	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.65	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/11/2018	n/a	2.6	4.2	n/a	4.79	16	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	11/6/2018	Non-Detect	2.42	4.5	0.08(J)	4.62	15	61.3	Non-Detect	Non-Detect	0.0726	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.55	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	3/27/2019	Non-Detect	2.75	4.33	Non-Detect	4.68	15.1	65.3	Non-Detect	Non-Detect	0.0912	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.83	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/11/2019	Non-Detect	2.17	4.16	Non-Detect	4.57	14.5	69.3	Non-Detect	Non-Detect	0.0824	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.02	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
GWPS		**N/R**	**N/R**	**N/R**	**4**	**N/R**	**N/R**	**N/R**	**0.006**	**0.01**	**2**	**0.004**	**0.005**	**0.1**	**0.0167**	**5**	**4**	**0.015**	**0.04**	**0.002**	**0.1**	**0.05**	**0.002**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-4	9/12/2018	n/a	172	12	n/a	6.13	400	714	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-4	3/27/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.69	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-4	9/10/2019	0.293	160	10.9	0.0831(J)	5.79	499	854	Non-Detect	0.00176(J)	0.0787	Non-Detect	Non-Detect	Non-Detect	0.146	1.89	0.0831(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-19	9/12/2018	n/a	155	24	n/a	6.6	160	538	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-34HA	1/17/2019	Non-Detect	25.3	7.87	Non-Detect	5.65	47.9	156	Non-Detect	Non-Detect	0.0714	Non-Detect	Non-Detect	Non-Detect	0.033	0.628	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-34HA	9/10/2019	Non-Detect	12.8	5.54	Non-Detect	4.87	27.1	112	Non-Detect	Non-Detect	0.0554	Non-Detect	Non-Detect	Non-Detect	0.0131	0.656	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-35H	1/16/2019	0.0284(J)	19.6	3.1	Non-Detect	5.99	34.9	85.3	Non-Detect	Non-Detect	0.0492	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0207(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00367(J)	Non-Detect
GC-AP-MW-35H	9/11/2019	Non-Detect	22.2	1.15	0.082(J)	5.6	30	100	Non-Detect	Non-Detect	0.0369	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.734	0.082(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00404(J)	Non-Detect
GC-AP-MW-36H	1/30/2019	0.164	2.85	3.04	0.264	7.87	11	184	Non-Detect	0.0034(J)	0.00776(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.479(U)	0.264	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	9/11/2019	0.147	1.16	3.95	0.289	7.2	11	182	Non-Detect	0.00222(J)	0.00323(J)	Non-Detect	Non-Detect	0.0155	Non-Detect	0.412(U)	0.289	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	1/15/2019	0.224	231	13.4	0.0512(J)	5.88	780	1210	Non-Detect	Non-Detect	0.0454	Non-Detect	Non-Detect	Non-Detect	0.0407	0.354(U)	0.0512(J)	Non-Detect	0.0141(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-38H	1/14/2019	0.148	123	37.9	0.0841(J)	6.56	103	381	Non-Detect	Non-Detect	0.0814	Non-Detect	Non-Detect	0.0117	Non-Detect	0.359(U)	0.0841(J)	Non-Detect	Non-Detect	Non-Detect	0.00574(J)	0.018	Non-Detect
GC-AP-MW-38H	9/11/2019	0.175	84	3.82	0.142	6.55	60.5	280	Non-Detect	Non-Detect	0.0581	Non-Detect	Non-Detect	Non-Detect	0.00363(J)	1.22	0.142	Non-Detect	Non-Detect	Non-Detect	0.00203(J)	0.0155	Non-Detect
GC-AP-MW-39H	1/15/2019	1.68	97.6	14.3	0.465	6.4	48.5	597	Non-Detect	0.0514	0.185	Non-Detect	Non-Detect	Non-Detect	0.0173	0.901	0.465	Non-Detect	0.399	Non-Detect	0.00419(J)	Non-Detect	0.00092(J)
GC-AP-MW-39H	9/11/2019	1.67	91.6	14.1	0.443	6.17	44.1	454	Non-Detect	0.053	0.173	Non-Detect	Non-Detect	Non-Detect	0.0194	1.16	0.443	Non-Detect	0.45	Non-Detect	0.00338(J)	Non-Detect	0.000983(J)
GC-AP-MW-40H	1/15/2019	0.702	60.7	13	0.0981(J)	5.7	224	392	Non-Detect	Non-Detect	0.0361	Non-Detect	Non-Detect	Non-Detect	0.0203	0.387(U)	0.0981(J)	Non-Detect	0.407	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-40H	9/10/2019	0.734	97.5	10.5	0.18	5.61	291	576	Non-Detect	Non-Detect	0.0294	Non-Detect	Non-Detect	Non-Detect	0.0139	0.519(U)	0.18	Non-Detect	0.545	Non-Detect	Non-Detect	Non-Detect	0.000223(J)
GC-AP-MW-41H	1/15/2019	0.762	115	16.6	0.0859(J)	6.71	96	433	Non-Detect	0.002(J)	0.13	Non-Detect	Non-Detect	Non-Detect	0.0044(J)	0.839	0.0859(J)	Non-Detect	0.0411(NONE)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	9/11/2019	0.758	72.1	16.5	0.0609(J)	5.96	79.1	334	Non-Detect	0.00208(J)	0.1	Non-Detect	Non-Detect	Non-Detect	0.00897	0.13(U)	0.0609(J)	Non-Detect	0.0396	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	1/15/2019	1.73	70	19.9	Non-Detect	6.29	9.73	334	Non-Detect	0.00372(J)	0.162	Non-Detect	Non-Detect	Non-Detect	0.0281	0.739	Non-Detect	Non-Detect	0.0146(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	9/11/2019	1.88	57.2	20.7	0.063(J)	6.2	9.43	299	Non-Detect	0.00583	0.123	Non-Detect	Non-Detect	0.00325(J)	0.0449	0.195(U)	0.063(J)	Non-Detect	0.0169(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	1/16/2019	0.835	54.9	26.1	0.0888(J)	6.48	74	345	Non-Detect	0.00816	0.12	Non-Detect	Non-Detect	Non-Detect	0.0131	0.426(U)	0.0888(J)	Non-Detect	0.178	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	9/11/2019	1.07	60.7	31.4	0.127	6.52	45.7	368	Non-Detect	0.0124	0.127	Non-Detect	Non-Detect	Non-Detect	0.0143	0.558(U)	0.127	Non-Detect	0.254	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	1/16/2019	0.173	174	12.3	0.0727(J)	6.39	394	706	Non-Detect	Non-Detect	0.131	Non-Detect	Non-Detect	Non-Detect	0.106	0.422(U)	0.0727(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	9/11/2019	0.199	179	11.8	0.0783(J)	6.11	409	1570	Non-Detect	0.00269(J)	0.0797	Non-Detect	Non-Detect	Non-Detect	0.106	0.637(U)	0.0783(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Appendix B

1st
Delineation
Monitoring Event

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative

Greene County Ash Pond

Delineation Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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Analytical Report

Alabama Power

Lab & Field SERVICES

Sample Group : WMWGREAP_1201

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks, Greg Dyer, & Corey Ladner

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

Quality Control: Laura Midkiff
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2019.04.15 15:25:29 -05'00'

Supervision: T. Durant Maske
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2019.04.15 15:56:33 -05'00'

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Case Narrative

Alabama Power

Lab & Field SERVICES

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636735	WMWGREAP_1201
AZ01498	636735	WMWGREAP_1201
AZ01499	636735	WMWGREAP_1201
AZ01500	636735	WMWGREAP_1201
AZ01501	636735	WMWGREAP_1201
AZ01502	636735	WMWGREAP_1201
AZ01503	636735	WMWGREAP_1201
AZ01504	636735	WMWGREAP_1201
AZ01505	636735	WMWGREAP_1201
AZ01506	636735	WMWGREAP_1201
AZ01507	636736	WMWGREAP_1201
AZ01508	636736	WMWGREAP_1201
AZ01509	636736	WMWGREAP_1201
AZ01510	636736	WMWGREAP_1201
AZ01511	636736	WMWGREAP_1201
AZ02474	637503	WMWGREAP_1201
AZ08025	642947	WMWGREAP_1201

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

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- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - AZ02474 Sodium MS/MSD spike level is less than 30% of the sample nominal concentration.
    - AZ08025 Calcium and Iron MS/MSD spike levels were less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

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7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ01497	Calcium	x10.15
AZ01500	Calcium	x10.15
AZ01500	Iron	x10.15
AZ01501	Calcium	x10.15
AZ01501	Iron	x101.5
AZ01502	Calcium	x10.15
AZ01502	Iron	x10.15
AZ01503	Calcium	x10.15
AZ01503	Iron	x10.15
AZ01504	Iron	x10.15
AZ01509	Calcium	x10.15
AZ02474	Sodium	x10.15
AZ02474MS	Sodium	x10.15
AZ02474MSD	Sodium	x10.15
AZ08025	Calcium	x10.15
AZ08025	Iron	x101.5

8. The raw data results are shown with dilution factors included.

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Case Narrative

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Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636673	WMWGREAP_1201
AZ01498	636673	WMWGREAP_1201
AZ01499	636673	WMWGREAP_1201
AZ01500	636673	WMWGREAP_1201
AZ01501	636673	WMWGREAP_1201
AZ01502	636673	WMWGREAP_1201
AZ01503	636673	WMWGREAP_1201
AZ01504	636673	WMWGREAP_1201
AZ01505	636673	WMWGREAP_1201
AZ01506	636673	WMWGREAP_1201
AZ01507	636674	WMWGREAP_1201
AZ01508	636674	WMWGREAP_1201
AZ01509	636674	WMWGREAP_1201
AZ01510	636674	WMWGREAP_1201
AZ01511	636674	WMWGREAP_1201
AZ02474	637950	WMWGREAP_1201
AZ08025	642799	WMWGREAP_1201

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch
- All laboratory control sample criteria were met.

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- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
    - AZ08025 Iron MS/MSD spike levels were less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ01500	Iron	x10.15
AZ01501	Iron	x101.5
AZ01502	Iron	x10.15
AZ01503	Iron	x10.15
AZ01504	Iron	x10.15
AZ08025	Iron	x10.15

8. The raw data results are shown with dilution factors included.

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Case Narrative

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Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	637628	WMWGREAP_1201
AZ01498	637628	WMWGREAP_1201
AZ01499	637628	WMWGREAP_1201
AZ01500	637628	WMWGREAP_1201
AZ01501	637628	WMWGREAP_1201
AZ01502	637628	WMWGREAP_1201
AZ01503	637628	WMWGREAP_1201
AZ01504	637628	WMWGREAP_1201
AZ01505	637628	WMWGREAP_1201
AZ01506	637628	WMWGREAP_1201
AZ01507	637629	WMWGREAP_1201
AZ01508	637629	WMWGREAP_1201
AZ01509	637629	WMWGREAP_1201
AZ01510	637629	WMWGREAP_1201
AZ01511	637629	WMWGREAP_1201
AZ02474	637643	WMWGREAP_1201
AZ08025	643166	WMWGREAP_1201

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

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- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
    - AZ08025 Manganese MS/MSD spike levels were less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. All samples were analyzed at a x5.075 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ01501	Manganese	x10.15
AZ01507	Manganese	x10.15
AZ01509	Manganese	x10.15
AZ08025	Manganese	x10.15

8. The raw data results are shown with dilution factors included.

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Case Narrative

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Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636984	WMWGREAP_1201
AZ01498	636984	WMWGREAP_1201
AZ01499	636984	WMWGREAP_1201
AZ01500	636984	WMWGREAP_1201
AZ01501	636984	WMWGREAP_1201
AZ01502	636984	WMWGREAP_1201
AZ01503	636984	WMWGREAP_1201
AZ01504	636984	WMWGREAP_1201
AZ01505	636984	WMWGREAP_1201
AZ01506	636984	WMWGREAP_1201
AZ01507	636985	WMWGREAP_1201
AZ01508	636985	WMWGREAP_1201
AZ01509	636985	WMWGREAP_1201
AZ01510	636985	WMWGREAP_1201
AZ01511	636985	WMWGREAP_1201
AZ02474	637957	WMWGREAP_1201
AZ08025	643151	WMWGREAP_1201

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

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Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
    - AZ08025 Manganese MS/MSD spike levels were less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. All samples were analyzed at a x5.075 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ01501	Manganese	x10.15
AZ01509	Manganese	x10.15
AZ08025	Manganese	x10.15

8. The raw data results are shown with dilution factors included.

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Mercury

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636402	WMWGREAP_1201
AZ01498	636402	WMWGREAP_1201
AZ01499	636402	WMWGREAP_1201
AZ01500	636402	WMWGREAP_1201
AZ01501	636402	WMWGREAP_1201
AZ01502	636402	WMWGREAP_1201
AZ01503	636402	WMWGREAP_1201
AZ01504	636402	WMWGREAP_1201
AZ01505	636402	WMWGREAP_1201
AZ01506	636402	WMWGREAP_1201
AZ01507	636403	WMWGREAP_1201
AZ01508	636403	WMWGREAP_1201
AZ01509	636403	WMWGREAP_1201
AZ01510	636403	WMWGREAP_1201
AZ01511	636403	WMWGREAP_1201
AZ02474	637923	WMWGREAP_1201
AZ08025	643044	WMWGREAP_1201

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

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- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.
8. The raw data results are shown with dilution factors included.

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Case Narrative

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TDS

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636623	WMWGREAP_1201
AZ01498	636623	WMWGREAP_1201
AZ01499	636623	WMWGREAP_1201
AZ01500	636623	WMWGREAP_1201
AZ01501	636623	WMWGREAP_1201
AZ01502	636623	WMWGREAP_1201
AZ01503	636623	WMWGREAP_1201
AZ01504	636623	WMWGREAP_1201
AZ01505	636623	WMWGREAP_1201
AZ01506	636623	WMWGREAP_1201
AZ01507	636629	WMWGREAP_1201
AZ01508	636629	WMWGREAP_1201
AZ01509	636629	WMWGREAP_1201
AZ01510	636629	WMWGREAP_1201
AZ01511	636629	WMWGREAP_1201
AZ02474	637891	WMWGREAP_1201
AZ08025	642997	WMWGREAP_1201

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - AZ01506
    - AZ01508
    - AZ01511

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Case Narrative

Alkalinity

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	637027 & 637028	WMWGREAP_1201
AZ01498	637027 & 637028	WMWGREAP_1201
AZ01499	637027 & 637028	WMWGREAP_1201
AZ01500	637027 & 637028	WMWGREAP_1201
AZ01501	637027 & 637028	WMWGREAP_1201
AZ01502	637274 & 637275	WMWGREAP_1201
AZ01503	637274 & 637275	WMWGREAP_1201
AZ01504	637274 & 637275	WMWGREAP_1201
AZ01505	637274 & 637275	WMWGREAP_1201
AZ01507	637274 & 637275	WMWGREAP_1201
AZ01509	637274 & 637275	WMWGREAP_1201
AZ01510	637274 & 637275	WMWGREAP_1201
AZ02474	638219 & 638220	WMWGREAP_1201
AZ08025	643231 & 643232	WMWGREAP_1201

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

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Case Narrative

Alabama Power

Lab & Field SERVICES

Anions

Greene County Ash Pond

WMWGREAP_1201

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ01497	636859, 636861, & 637304	WMWGREAP_1201
AZ01498	636859, 636861, & 637304	WMWGREAP_1201
AZ01499	636859, 636861, & 637304	WMWGREAP_1201
AZ01500	636859, 636861, & 637304	WMWGREAP_1201
AZ01501	636859, 636861, & 637304	WMWGREAP_1201
AZ01502	636859, 636861, & 637304	WMWGREAP_1201
AZ01503	636859, 636861, & 637304	WMWGREAP_1201
AZ01504	636859, 636861, & 637304	WMWGREAP_1201
AZ01505	636859, 636861, & 637304	WMWGREAP_1201
AZ01506	636859, 636861, & 637304	WMWGREAP_1201
AZ01507	636863, 636865, & 637305	WMWGREAP_1201
AZ01508	636863, 636865, & 637305	WMWGREAP_1201
AZ01509	636863, 636865, & 637305	WMWGREAP_1201
AZ01510	636863, 636865, & 637305	WMWGREAP_1201
AZ01511	636863, 636865, & 637305	WMWGREAP_1201
AZ02474	637939, 637949, & 637568	WMWGREAP_1201
AZ08025	643069, 642762, & 643099	WMWGREAP_1201

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F C, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

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- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ01497	Chloride	x10
AZ01497	Sulfate	x10
AZ01498	Sulfate	x10
AZ01499	Sulfate	x10
AZ01500	Sulfate	x10
AZ01501	Sulfate	X50
AZ01502	Sulfate	x10
AZ01503	Sulfate	x10
AZ01507	Chloride	x10
AZ01507	Sulfate	x10
AZ01509	Sulfate	X32
AZ01510	Sulfate	x10
AZ08025	Sulfate	x50

8. The raw data results are shown with dilution factors included.

Alabama Power General Test Laboratory
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 14-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ01497

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0814	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.148	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		10.15	1.015	5.075		123	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	J	0.00574	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0117	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		0.0604	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		0.157	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		11.3	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		0.608	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.610	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	J	1.83	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		9.88	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0180	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 14-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ01497

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	1/25/2019	SM 4500H+ B		1		4.00		7.46	SU
Alkalinity, Total as CaCO3	EMG	1/25/2019	SM 2320 B		1		0.1		181	mg/L
Carbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				0.49	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				180	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		381	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		10	5.00	10		37.9	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0841	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		103	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 14-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ01497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 14-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ01497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01497	Alkalinity, Total as CaCO3	mg/L					182	49.9	45.0 to 55.0			0.770	10
AZ01497	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ01498

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0361	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.702	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		60.7	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0203	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.28	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.49	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.407	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		17.6	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		1.82	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		1.98	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		8.66	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		31.8	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ01498

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	1/25/2019	SM 4500H+ B		1		4.00		6.01	SU
Alkalinity, Total as CaCO3	EMG	1/25/2019	SM 2320 B		1		0.1		70.5	mg/L
Carbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				70.5	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		392	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		13.0	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0981	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		224	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ01498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ01498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01497	Alkalinity, Total as CaCO3	mg/L					182	49.9	45.0 to 55.0			0.770	10
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01497	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

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CC:

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Certificate Of Analysis

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To: Dustin Brooks
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Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H Dup

Laboratory ID Number: AZ01499

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0378	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.704	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		61.4	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0203	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.28	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.41	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.410	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		17.8	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		1.75	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		2.03	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		8.88	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		32.0	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H Dup

Laboratory ID Number: AZ01499

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	1/25/2019	SM 4500H+ B		1		4.00		6.02	SU
Alkalinity, Total as CaCO3	EMG	1/25/2019	SM 2320 B		1		0.1		70.9	mg/L
Carbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				70.9	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		375	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		13.0	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.091	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		214	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H Dup

Laboratory ID Number: AZ01499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-40H Dup

Laboratory ID Number: AZ01499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01497	Alkalinity, Total as CaCO3	mg/L					182	49.9	45.0 to 55.0			0.770	10
AZ01497	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ01500

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.0514	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.185	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		1.68	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		10.15	1.015	5.075		97.6	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	J	0.00419	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0173	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		25.8	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		26.5	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.399	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		19.0	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		3.35	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		3.62	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		10.9	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		36.3	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	J	0.000920	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

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Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ01500

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	1/25/2019	SM 4500H+ B		1		4.00		6.63	SU
Alkalinity, Total as CaCO3	EMG	1/25/2019	SM 2320 B		1		0.1		341	mg/L
Carbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				0.14	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				341	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		597	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		14.3	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1		0.465	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		48.5	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ01500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ01500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01497	Alkalinity, Total as CaCO3	mg/L					182	49.9	45.0 to 55.0			0.770	10
AZ01497	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: AZ01501

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0454	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.224	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		10.15	1.015	5.075		231	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0407	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		101.5	1.015	5.075		88.8	mg/L
* Iron, Total	GAS	1/28/2019	EPA 200.7		101.5	1.015	5.075		89.3	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	J	0.0141	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		40.0	mg/L
* Mangenese, Dissolved	DLJ	1/29/2019	EPA 200.8		10.15	0.01015	0.05075		8.04	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		10.15	0.01015	0.05075		8.29	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		2.51	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		40.0	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: AZ01501

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	1/25/2019	SM 4500H+ B		1		4.00		6.02	SU
Alkalinity, Total as CaCO3	EMG	1/25/2019	SM 2320 B		1		0.1		80.6	mg/L
Carbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	1/25/2019	SM 4500CO2 D		1				80.6	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		50		1210	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		13.4	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0512	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		50	25.00	50		780	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: AZ01501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: AZ01501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01497	Alkalinity, Total as CaCO3	mg/L					182	49.9	45.0 to 55.0			0.770	10
AZ01497	pH for Alkalinity	SU						6.96	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ01502

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	J	0.00200	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.130	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.762	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		10.15	1.015	5.075		115	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	J	0.00440	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		10.4	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		10.3	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.0411	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		7.15	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		1.78	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		1.97	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		3.70	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		27.8	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ01502

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.92	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		274	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.21	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				274	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		433	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		16.6	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0859	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		96.0	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ01502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ01502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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CC:

Reported: 4/15/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H DUP

Laboratory ID Number: AZ01503

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	J	0.00214	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.136	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.743	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		10.15	1.015	5.075		117	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	J	0.00479	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		10.9	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		10.4	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.0403	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		6.95	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		1.81	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		2.12	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		3.85	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		27.2	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H DUP

Laboratory ID Number: AZ01503

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.97	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		263	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.23	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				263	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		432	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		16.6	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0784	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		97.3	mg/L

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Laboratory certification ID: E571114
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Version: 2.0

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H DUP

Laboratory ID Number: AZ01503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-41H DUP

Laboratory ID Number: AZ01503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ01504

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	J	0.00372	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.162	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		1.73	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		70.0	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0281	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		14.9	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		10.15	0.1015	0.5075		14.7	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	J	0.0146	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		9.21	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		5.14	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		5.92	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		3.02	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		30.6	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ01504

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.54	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		279	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.09	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				279	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		334	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		19.9	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		1	0.50	1		9.73	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ01504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 15-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ01504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Expiration: June 30, 2019

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CC:

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Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ01505

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0492	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1	J	0.0284	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		19.6	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	J	0.0135	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		2.77	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		0.0180	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.0204	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	J	1.12	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		2.76	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	J	0.00367	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ01505

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.25	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		25.3	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.00	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				25.3	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		85.3	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		3.10	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		1	0.50	1		34.9	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Issued By: State of Florida, Department of Health
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ01505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ01505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01506

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01506

	Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
*	Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25	U	Not Detected	mg/L
	Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
*	Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
*	Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
*	Sulfate	JCC	1/30/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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Batch QC Summary

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Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Boron, Total	mg/L	0.000449	0.044	1.00	0.958	0.956	0.973	0.85 to 1.15	95.8	70 to 130	0.274	20
AZ01506	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.0971	0.0989	0.0972	0.085 to 0.115	97.1	70 to 130	1.82	20
AZ01506	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.104	0.108	0.113	0.085 to 0.115	104	70 to 130	4.41	20
AZ01506	Iron, Dissolved	mg/L	-0.000210	0.022	0.2	0.211	0.212	0.208	0.17 to 0.23	106	70 to 130	0.237	20
AZ01506	Mangenese, Dissolved	mg/L	0.00000826	0.0022	0.10	0.101	0.0961		0.085 to 0.115	101	70 to 130	5.10	20
AZ01506	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0913	0.0949	0.104	0.085 to 0.115	91.3	70 to 130	3.85	20
AZ01506	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0887	0.0911	0.100	0.085 to 0.115	88.7	70 to 130	2.64	20
AZ01506	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0853	0.0874	0.0982	0.085 to 0.115	85.3	70 to 130	2.43	20
AZ01506	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0913	0.0940	0.0993	0.085 to 0.115	91.3	70 to 130	2.93	20
AZ01506	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0899	0.0926	0.104	0.085 to 0.115	89.9	70 to 130	2.91	20
AZ01506	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.201	0.204	0.17 to 0.23	101	70 to 130	0.0850	20
AZ01506	Potassium, Total	mg/L	-0.00222	0.473	10.0	9.84	10.0	10.0	8.5 to 11.5	98.4	70 to 130	2.10	20
AZ01506	Lithium, Total	mg/L	-0.0000712	0.022	0.20	0.195	0.195	0.196	0.17 to 0.23	97.4	70 to 130	0.0210	20
AZ01506	Sodium, Total	mg/L	-0.00160	0.22	5.00	4.78	4.78	4.87	4.25 to 5.75	95.7	70 to 130	0.146	20
AZ01506	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.0965	0.0985	0.107	0.085 to 0.115	96.5	70 to 130	2.03	20
AZ01506	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.113	0.115	0.109	0.085 to 0.115	113	70 to 130	1.23	20
AZ01506	Calcium, Total	mg/L	-0.00270	0.22	5.00	5.10	5.08	5.17	4.25 to 5.75	102	70 to 130	0.387	20
AZ01506	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.03	5.00	5.10	4.25 to 5.75	101	70 to 130	0.451	20
AZ01506	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.0999	0.101	0.100	0.085 to 0.115	99.9	70 to 130	1.39	20
AZ01506	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.102	0.104	0.101	0.085 to 0.115	102	70 to 130	1.90	20
AZ01506	Mercury, Total by CVAA	mg/L	0.0000262	0.0005	0.004	0.00399	0.00387	0.00390	0.0034 to 0.0046	99.7	70 to 130	3.07	20
AZ01506	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0951	0.0967	0.101	0.085 to 0.115	95.1	70 to 130	1.63	20

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Expiration: June 30, 2019

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01506	Chloride	mg/L	-0.0201	0.50	10.0	9.91	0.155	10.0	9 to 11	99.1	80 to 120	0.00	20
AZ01506	Fluoride	mg/L	0.0131	0.05	2.50	2.62	0.00826	2.59	2.25 to 2.75	105	80 to 120	0.00	20
AZ01505	Solids, Dissolved	mg/L	1.00	25			94.0	55.0	40 to 60			4.83	5
AZ01506	Sulfate	mg/L	-0.312	0.50	20.0	20.3	-0.297	20.4	18 to 22	102	80 to 120	0.00	20

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ01507

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.00816	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.120	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.835	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		54.9	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0131	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		7.56	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		7.24	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02		0.178	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		12.0	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		5.93	mg/L
* Mangenese, Total	DLJ	2/6/2019	EPA 200.8		10.15	0.01015	0.05075		5.74	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5		8.07	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		40.9	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ01507

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.71	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		202	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.10	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				202	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		345	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		10	5.00	10		26.1	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0888	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		74.0	mg/L

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Batch QC Summary

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To: Dustin Brooks
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Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ01507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0976	0.0993	0.104	0.085 to 0.115	97.6	70 to 130	1.74	20
AZ01511	Cobalt, Total	mg/L	-0.0000000540	0.0044	0.10	0.0929	0.0935	0.100	0.085 to 0.115	92.9	70 to 130	0.696	20
AZ01511	Calcium, Total	mg/L	-0.002703	0.22	5.00	5.06	5.02	5.17	4.25 to 5.75	101	70 to 130	0.730	20
AZ01511	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.01	4.97	5.10	4.25 to 5.75	100	70 to 130	0.958	20
AZ01511	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.523	20
AZ01511	Potassium, Total	mg/L	-0.00222	0.473	10.0	10.2	10.2	10.0	8.5 to 11.5	102	70 to 130	0.0501	20
AZ01511	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0964	0.0963	0.0993	0.085 to 0.115	96.4	70 to 130	0.149	20
AZ01511	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.109	0.108	0.101	0.085 to 0.115	109	70 to 130	0.724	20
AZ01511	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.199	0.196	0.17 to 0.23	100	70 to 130	0.962	20
AZ01511	Sodium, Total	mg/L	-0.001600	0.22	5.00	4.83	4.75	4.87	4.25 to 5.75	96.5	70 to 130	1.56	20
AZ01511	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0983	0.0978	0.101	0.085 to 0.115	98.3	70 to 130	0.447	20
AZ01511	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.102	0.102	0.107	0.085 to 0.115	102	70 to 130	0.319	20
AZ01511	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0899	0.0892	0.0982	0.085 to 0.115	89.9	70 to 130	0.718	20
AZ01511	Mercury, Total by CVAA	mg/L	0.0000439	0.0005	0.004	0.00393	0.00395	0.00394	0.0034 to 0.0046	98.2	70 to 130	0.533	20
AZ01511	Mangenese, Dissolved	mg/L	0.0000130	0.0022	0.10	0.102	0.0998		0.085 to 0.115	102	70 to 130	1.82	20
AZ01511	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.101	0.102	0.0972	0.085 to 0.115	101	70 to 130	0.318	20
AZ01511	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0947	0.0941	0.104	0.085 to 0.115	94.7	70 to 130	0.627	20
AZ01511	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.119	0.118	0.109	0.085 to 0.115	119	70 to 130	0.758	20
AZ01511	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.114	0.117	0.113	0.085 to 0.115	114	70 to 130	2.21	20
AZ01511	Boron, Total	mg/L	0.000449	0.044	1.00	0.960	0.952	0.973	0.85 to 1.15	96.0	70 to 130	0.816	20
AZ01511	Iron, Dissolved	mg/L	-0.000185	0.022	0.2	0.212	0.211	0.213	0.17 to 0.23	106	70 to 130	0.630	20
AZ01511	Lithium, Total	mg/L	-0.000071	0.022	0.20	0.197	0.195	0.196	0.17 to 0.23	98.4	70 to 130	0.745	20

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Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ01507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01510	Solids, Dissolved	mg/L	1.00	25			155	55.0	40 to 60			0.322	5
AZ01511	Chloride	mg/L	0.0359	0.50	10.0	10.0	0.0768	9.97	9 to 11	100	80 to 120	0.00	20
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01511	Fluoride	mg/L	0.0209	0.05	2.50	2.65	0.0123	2.52	2.25 to 2.75	106	80 to 120	0.00	20
AZ01511	Sulfate	mg/L	-0.291	0.50	20.0	20.7	-0.311	20.4	18 to 22	104	80 to 120	0.00	20

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To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01508

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01508

	Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
*	Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25	U	Not Detected	mg/L
	Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
*	Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
*	Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
*	Sulfate	JCC	1/30/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0929	0.0935	0.100	0.085 to 0.115	92.9	70 to 130	0.696	20
AZ01511	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0976	0.0993	0.104	0.085 to 0.115	97.6	70 to 130	1.74	20
AZ01511	Potassium, Total	mg/L	-0.00222	0.473	10.0	10.2	10.2	10.0	8.5 to 11.5	102	70 to 130	0.0501	20
AZ01511	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0964	0.0963	0.0993	0.085 to 0.115	96.4	70 to 130	0.149	20
AZ01511	Calcium, Total	mg/L	-0.002703	0.22	5.00	5.06	5.02	5.17	4.25 to 5.75	101	70 to 130	0.730	20
AZ01511	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.01	4.97	5.10	4.25 to 5.75	100	70 to 130	0.958	20
AZ01511	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.523	20
AZ01511	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.119	0.118	0.109	0.085 to 0.115	119	70 to 130	0.758	20
AZ01511	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.114	0.117	0.113	0.085 to 0.115	114	70 to 130	2.21	20
AZ01511	Boron, Total	mg/L	0.000449	0.044	1.00	0.960	0.952	0.973	0.85 to 1.15	96.0	70 to 130	0.816	20
AZ01511	Iron, Dissolved	mg/L	-0.000185	0.022	0.2	0.212	0.211	0.213	0.17 to 0.23	106	70 to 130	0.630	20
AZ01511	Lithium, Total	mg/L	-0.000071	0.022	0.20	0.197	0.195	0.196	0.17 to 0.23	98.4	70 to 130	0.745	20
AZ01511	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.102	0.102	0.107	0.085 to 0.115	102	70 to 130	0.319	20
AZ01511	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0899	0.0892	0.0982	0.085 to 0.115	89.9	70 to 130	0.718	20
AZ01511	Mercury, Total by CVAA	mg/L	0.0000439	0.0005	0.004	0.00393	0.00395	0.00394	0.0034 to 0.0046	98.2	70 to 130	0.533	20
AZ01511	Mangenese, Dissolved	mg/L	0.0000130	0.0022	0.10	0.102	0.0998		0.085 to 0.115	102	70 to 130	1.82	20
AZ01511	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.101	0.102	0.0972	0.085 to 0.115	101	70 to 130	0.318	20
AZ01511	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0947	0.0941	0.104	0.085 to 0.115	94.7	70 to 130	0.627	20
AZ01511	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.109	0.108	0.101	0.085 to 0.115	109	70 to 130	0.724	20
AZ01511	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.199	0.196	0.17 to 0.23	100	70 to 130	0.962	20
AZ01511	Sodium, Total	mg/L	-0.001600	0.22	5.00	4.83	4.75	4.87	4.25 to 5.75	96.5	70 to 130	1.56	20
AZ01511	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0983	0.0978	0.101	0.085 to 0.115	98.3	70 to 130	0.447	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ01508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Fluoride	mg/L	0.0209	0.05	2.50	2.65	0.0123	2.52	2.25 to 2.75	106	80 to 120	0.00	20
AZ01511	Sulfate	mg/L	-0.291	0.50	20.0	20.7	-0.311	20.4	18 to 22	104	80 to 120	0.00	20
AZ01510	Solids, Dissolved	mg/L	1.00	25			155	55.0	40 to 60			0.322	5
AZ01511	Chloride	mg/L	0.0359	0.50	10.0	10.0	0.0768	9.97	9 to 11	100	80 to 120	0.00	20

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Expiration: June 30, 2019

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CC:

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ01509

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.131	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1		0.173	mg/L
* Calcium, Total	GAS	1/28/2019	EPA 200.7		10.15	1.015	5.075		174	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.106	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.90	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		1.89	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		18.6	mg/L
* Mangenese, Dissolved	DLJ	1/29/2019	EPA 200.8		10.15	0.01015	0.05075		10.4	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		10.15	0.01015	0.05075		11.6	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	J	2.26	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		25.0	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ01509

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		6.58	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		143	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.05	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				143	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		50		706	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		12.3	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	J	0.0727	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		32	16.00	32		394	mg/L

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

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Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ01509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0976	0.0993	0.104	0.085 to 0.115	97.6	70 to 130	1.74	20
AZ01511	Cobalt, Total	mg/L	-0.0000000540	0.0044	0.10	0.0929	0.0935	0.100	0.085 to 0.115	92.9	70 to 130	0.696	20
AZ01511	Potassium, Total	mg/L	-0.00222	0.473	10.0	10.2	10.2	10.0	8.5 to 11.5	102	70 to 130	0.0501	20
AZ01511	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0964	0.0963	0.0993	0.085 to 0.115	96.4	70 to 130	0.149	20
AZ01511	Calcium, Total	mg/L	-0.002703	0.22	5.00	5.06	5.02	5.17	4.25 to 5.75	101	70 to 130	0.730	20
AZ01511	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.01	4.97	5.10	4.25 to 5.75	100	70 to 130	0.958	20
AZ01511	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.523	20
AZ01511	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.102	0.102	0.107	0.085 to 0.115	102	70 to 130	0.319	20
AZ01511	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0899	0.0892	0.0982	0.085 to 0.115	89.9	70 to 130	0.718	20
AZ01511	Mercury, Total by CVAA	mg/L	0.0000439	0.0005	0.004	0.00393	0.00395	0.00394	0.0034 to 0.0046	98.2	70 to 130	0.533	20
AZ01511	Mangenese, Dissolved	mg/L	0.0000130	0.0022	0.10	0.102	0.0998		0.085 to 0.115	102	70 to 130	1.82	20
AZ01511	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.101	0.102	0.0972	0.085 to 0.115	101	70 to 130	0.318	20
AZ01511	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0947	0.0941	0.104	0.085 to 0.115	94.7	70 to 130	0.627	20
AZ01511	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.109	0.108	0.101	0.085 to 0.115	109	70 to 130	0.724	20
AZ01511	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.199	0.196	0.17 to 0.23	100	70 to 130	0.962	20
AZ01511	Sodium, Total	mg/L	-0.001600	0.22	5.00	4.83	4.75	4.87	4.25 to 5.75	96.5	70 to 130	1.56	20
AZ01511	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0983	0.0978	0.101	0.085 to 0.115	98.3	70 to 130	0.447	20
AZ01511	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.119	0.118	0.109	0.085 to 0.115	119	70 to 130	0.758	20
AZ01511	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.114	0.117	0.113	0.085 to 0.115	114	70 to 130	2.21	20
AZ01511	Boron, Total	mg/L	0.000449	0.044	1.00	0.960	0.952	0.973	0.85 to 1.15	96.0	70 to 130	0.816	20
AZ01511	Iron, Dissolved	mg/L	-0.000185	0.022	0.2	0.212	0.211	0.213	0.17 to 0.23	106	70 to 130	0.630	20
AZ01511	Lithium, Total	mg/L	-0.000071	0.022	0.20	0.197	0.195	0.196	0.17 to 0.23	98.4	70 to 130	0.745	20

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Customer Account: WMWGREAP
Sample Date: 16-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ01509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01510	Solids, Dissolved	mg/L	1.00	25			155	55.0	40 to 60			0.322	5
AZ01511	Chloride	mg/L	0.0359	0.50	10.0	10.0	0.0768	9.97	9 to 11	100	80 to 120	0.00	20
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01511	Fluoride	mg/L	0.0209	0.05	2.50	2.65	0.0123	2.52	2.25 to 2.75	106	80 to 120	0.00	20
AZ01511	Sulfate	mg/L	-0.291	0.50	20.0	20.7	-0.311	20.4	18 to 22	104	80 to 120	0.00	20

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ01510

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01		0.0714	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		25.3	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005		0.0330	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		6.12	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05		5.80	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		1.31	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005		0.463	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.447	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	J	0.625	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5		21.1	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

Reported: 4/15/2019
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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ01510

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	1/28/2019	SM 4500H+ B		1		4.00		5.98	SU
Alkalinity, Total as CaCO3	HRG	1/28/2019	SM 2320 B		1		0.1		67.8	mg/L
Carbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				0.01	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	1/28/2019	SM 4500CO2 D		1				67.8	mg/L
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25		156	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1		7.87	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		10	5.00	10		47.9	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ01510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Cobalt, Total	mg/L	-0.000000054(	0.0044	0.10	0.0929	0.0935	0.100	0.085 to 0.115	92.9	70 to 130	0.696	20
AZ01511	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0976	0.0993	0.104	0.085 to 0.115	97.6	70 to 130	1.74	20
AZ01511	Potassium, Total	mg/L	-0.00222	0.473	10.0	10.2	10.2	10.0	8.5 to 11.5	102	70 to 130	0.0501	20
AZ01511	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0964	0.0963	0.0993	0.085 to 0.115	96.4	70 to 130	0.149	20
AZ01511	Calcium, Total	mg/L	-0.002703	0.22	5.00	5.06	5.02	5.17	4.25 to 5.75	101	70 to 130	0.730	20
AZ01511	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.01	4.97	5.10	4.25 to 5.75	100	70 to 130	0.958	20
AZ01511	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.523	20
AZ01511	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.119	0.118	0.109	0.085 to 0.115	119	70 to 130	0.758	20
AZ01511	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.114	0.117	0.113	0.085 to 0.115	114	70 to 130	2.21	20
AZ01511	Boron, Total	mg/L	0.000449	0.044	1.00	0.960	0.952	0.973	0.85 to 1.15	96.0	70 to 130	0.816	20
AZ01511	Iron, Dissolved	mg/L	-0.000185	0.022	0.2	0.212	0.211	0.213	0.17 to 0.23	106	70 to 130	0.630	20
AZ01511	Lithium, Total	mg/L	-0.000071	0.022	0.20	0.197	0.195	0.196	0.17 to 0.23	98.4	70 to 130	0.745	20
AZ01511	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.102	0.102	0.107	0.085 to 0.115	102	70 to 130	0.319	20
AZ01511	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0899	0.0892	0.0982	0.085 to 0.115	89.9	70 to 130	0.718	20
AZ01511	Mercury, Total by CVAA	mg/L	0.0000439	0.0005	0.004	0.00393	0.00395	0.00394	0.0034 to 0.0046	98.2	70 to 130	0.533	20
AZ01511	Mangenese, Dissolved	mg/L	0.0000130	0.0022	0.10	0.102	0.0998		0.085 to 0.115	102	70 to 130	1.82	20
AZ01511	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.101	0.102	0.0972	0.085 to 0.115	101	70 to 130	0.318	20
AZ01511	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0947	0.0941	0.104	0.085 to 0.115	94.7	70 to 130	0.627	20
AZ01511	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.109	0.108	0.101	0.085 to 0.115	109	70 to 130	0.724	20
AZ01511	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.199	0.196	0.17 to 0.23	100	70 to 130	0.962	20
AZ01511	Sodium, Total	mg/L	-0.001600	0.22	5.00	4.83	4.75	4.87	4.25 to 5.75	96.5	70 to 130	1.56	20
AZ01511	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0983	0.0978	0.101	0.085 to 0.115	98.3	70 to 130	0.447	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ01510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01510	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ01510	Solids, Dissolved	mg/L	1.00	25			155	55.0	40 to 60			0.322	5
AZ01511	Chloride	mg/L	0.0359	0.50	10.0	10.0	0.0768	9.97	9 to 11	100	80 to 120	0.00	20
AZ01510	Alkalinity, Total as CaCO3	mg/L					69.0	50.6	45.0 to 55.0			1.73	10
AZ01511	Fluoride	mg/L	0.0209	0.05	2.50	2.65	0.0123	2.52	2.25 to 2.75	106	80 to 120	0.00	20
AZ01511	Sulfate	mg/L	-0.291	0.50	20.0	20.7	-0.311	20.4	18 to 22	104	80 to 120	0.00	20

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Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ01511

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.02	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	1/23/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Mangenese, Dissolved	DLJ	1/28/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	U	Not Detected	mg/L
* Sodium, Total	GAS	1/25/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ01511

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
* Solids, Dissolved	CRB	1/23/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CRB	1/18/2019	SM 2540C		1				01/18/2019	Date
* Chloride	JCC	1/24/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	1/25/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	1/30/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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Batch QC Summary

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To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ01511

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Antimony, Total	mg/L	0.000154	0.00176	0.10	0.0976	0.0993	0.104	0.085 to 0.115	97.6	70 to 130	1.74	20
AZ01511	Cobalt, Total	mg/L	-0.0000000540	0.0044	0.10	0.0929	0.0935	0.100	0.085 to 0.115	92.9	70 to 130	0.696	20
AZ01511	Calcium, Total	mg/L	-0.002703	0.22	5.00	5.06	5.02	5.17	4.25 to 5.75	101	70 to 130	0.730	20
AZ01511	Magnesium, Total	mg/L	-0.000172	0.22	5.00	5.01	4.97	5.10	4.25 to 5.75	100	70 to 130	0.958	20
AZ01511	Thallium, Total	mg/L	0.00000479	0.00044	0.10	0.102	0.102	0.100	0.085 to 0.115	102	70 to 130	0.523	20
AZ01511	Arsenic, Total	mg/L	0.0000124	0.0022	0.10	0.102	0.102	0.107	0.085 to 0.115	102	70 to 130	0.319	20
AZ01511	Chromium, Total	mg/L	0.0000454	0.0044	0.10	0.0899	0.0892	0.0982	0.085 to 0.115	89.9	70 to 130	0.718	20
AZ01511	Mercury, Total by CVAA	mg/L	0.0000439	0.0005	0.004	0.00393	0.00395	0.00394	0.0034 to 0.0046	98.2	70 to 130	0.533	20
AZ01511	Mangenese, Dissolved	mg/L	0.0000130	0.0022	0.10	0.102	0.0998		0.085 to 0.115	102	70 to 130	1.82	20
AZ01511	Mangenese, Total	mg/L	0.0000112	0.0022	0.10	0.101	0.102	0.0972	0.085 to 0.115	101	70 to 130	0.318	20
AZ01511	Selenium, Total	mg/L	-0.0000257	0.0044	0.10	0.0947	0.0941	0.104	0.085 to 0.115	94.7	70 to 130	0.627	20
AZ01511	Potassium, Total	mg/L	-0.00222	0.473	10.0	10.2	10.2	10.0	8.5 to 11.5	102	70 to 130	0.0501	20
AZ01511	Molybdenum, Total	mg/L	0.0000161	0.0044	0.10	0.0964	0.0963	0.0993	0.085 to 0.115	96.4	70 to 130	0.149	20
AZ01511	Cadmium, Total	mg/L	0.000000619	0.00066	0.10	0.109	0.108	0.101	0.085 to 0.115	109	70 to 130	0.724	20
AZ01511	Iron, Total	mg/L	-0.000358	0.022	0.2	0.201	0.199	0.196	0.17 to 0.23	100	70 to 130	0.962	20
AZ01511	Sodium, Total	mg/L	-0.001600	0.22	5.00	4.83	4.75	4.87	4.25 to 5.75	96.5	70 to 130	1.56	20
AZ01511	Lead, Total	mg/L	0.00000558	0.0022	0.10	0.0983	0.0978	0.101	0.085 to 0.115	98.3	70 to 130	0.447	20
AZ01511	Barium, Total	mg/L	-0.00000231	0.0044	0.10	0.119	0.118	0.109	0.085 to 0.115	119	70 to 130	0.758	20
AZ01511	Beryllium, Total	mg/L	0.0000158	0.00132	0.10	0.114	0.117	0.113	0.085 to 0.115	114	70 to 130	2.21	20
AZ01511	Boron, Total	mg/L	0.000449	0.044	1.00	0.960	0.952	0.973	0.85 to 1.15	96.0	70 to 130	0.816	20
AZ01511	Iron, Dissolved	mg/L	-0.000185	0.022	0.2	0.212	0.211	0.213	0.17 to 0.23	106	70 to 130	0.630	20
AZ01511	Lithium, Total	mg/L	-0.000071	0.022	0.20	0.197	0.195	0.196	0.17 to 0.23	98.4	70 to 130	0.745	20

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Batch QC Summary

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Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 17-Jan-19
Customer ID:
Delivery Date: 17-Jan-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ01511

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ01511	Fluoride	mg/L	0.0209	0.05	2.50	2.65	0.0123	2.52	2.25 to 2.75	106	80 to 120	0.00	20
AZ01511	Sulfate	mg/L	-0.291	0.50	20.0	20.7	-0.311	20.4	18 to 22	104	80 to 120	0.00	20
AZ01510	Solids, Dissolved	mg/L	1.00	25			155	55.0	40 to 60			0.322	5
AZ01511	Chloride	mg/L	0.0359	0.50	10.0	10.0	0.0768	9.97	9 to 11	100	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. LBM 2/25/19

CC:

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 30-Jan-19
Customer ID:
Delivery Date: 30-Jan-19

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ02474

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	J	0.00340	mg/L
* Barium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	J	0.00776	mg/L
* Beryllium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	2/4/2019	EPA 200.7		2.03	0.02	0.1		0.164	mg/L
* Calcium, Total	GAS	2/4/2019	EPA 200.7		2.03	0.1	0.5		2.85	mg/L
* Cadmium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	2/6/2019	EPA 200.7		2.03	0.01	0.05	U	Not Detected	mg/L
* Iron, Total	GAS	2/4/2019	EPA 200.7		2.03	0.01	0.05		0.501	mg/L
* Mercury, Total by CVAA	ABB	2/8/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	2/4/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	2/4/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Mangenese, Dissolved	DLJ	2/6/2019	EPA 200.8		5.075	0.001	0.005		0.00686	mg/L
* Mangenese, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.001	0.005		0.0109	mg/L
* Potassium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.215	2.5	J	0.593	mg/L
* Sodium, Total	GAS	2/4/2019	EPA 200.7		10.15	1.015	5.075		81.8	mg/L
* Selenium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	2/4/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Sodium is out of spec. Spike amount is less than 30% of the sample amount. LBM 2/25/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 30-Jan-19
Customer ID:
Delivery Date: 30-Jan-19

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ02474

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	EMG	2/7/2019	SM 4500H+ B		1		4.00		8.17	SU
Alkalinity, Total as CaCO3	EMG	2/7/2019	SM 2320 B		1		0.1		144	mg/L
Carbonate Alkalinity, as CaCO3	EMG	2/7/2019	SM 4500CO2 D		1				1.97	mg/L
Bicarbonate Alkalinity, as CaCO3	EMG	2/7/2019	SM 4500CO2 D		1				142	mg/L
* Solids, Dissolved	CRB	2/5/2019	SM 2540C		1		25		184	mg/L
Filter Completion Date	CRB	1/31/2019	SM 2540C		1				01/31/2019	Date
* Chloride	JCC	2/5/2019	SM4500Cl E		1	0.50	1		3.04	mg/L
* Fluoride	JCC	2/5/2019	SM4500F C		1	0.05	0.1		0.264	mg/L
* Sulfate	JCC	2/1/2019	SM4500SO4 E		1	0.50	1		11.0	mg/L

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Sodium is out of spec. Spike amount is less than 30% of the sample amount. LBM 2/25/19

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 30-Jan-19
Customer ID:
Delivery Date: 30-Jan-19

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ02474

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ02474	Cadmium, Total	mg/L	0.00000188	0.00066	0.10	0.102	0.108	0.103	0.085 to 0.115	102	70 to 130	4.90	20
AZ02474	Arsenic, Total	mg/L	0.0000162	0.0022	0.10	0.0990	0.103	0.0979	0.085 to 0.115	95.6	70 to 130	4.10	20
AZ02474	Potassium, Total	mg/L	-0.00385	0.473	10.0	10.4	11.0	9.95	8.5 to 11.5	98.5	70 to 130	5.05	20
AZ02474	Lithium, Total	mg/L	-0.0000152	0.022	0.20	0.216	0.223	0.201	0.17 to 0.23	108	70 to 130	3.10	20
AZ02474	Mangenese, Dissolved	mg/L	0.0000161	0.0022	0.10	0.0951	0.0978		0.085 to 0.115	88.2	70 to 130	2.82	20
AZ02474	Boron, Total	mg/L	0.00675	0.044	1.00	1.16	1.19	1.01	0.85 to 1.15	99.9	70 to 130	2.37	20
AZ02474	Iron, Total	mg/L	0.00223	0.022	0.2	0.741	0.756	0.207	0.17 to 0.23	120	70 to 130	2.02	20
AZ02474	Thallium, Total	mg/L	0.00000483	0.00044	0.10	0.0980	0.101	0.101	0.085 to 0.115	98.0	70 to 130	3.08	20
AZ02474	Beryllium, Total	mg/L	0.000000	0.00132	0.10	0.106	0.112	0.110	0.085 to 0.115	106	70 to 130	5.13	20
AZ02474	Selenium, Total	mg/L	-0.0000252	0.0044	0.10	0.0902	0.0931	0.0946	0.085 to 0.115	90.2	70 to 130	3.15	20
AZ02474	Magnesium, Total	mg/L	-0.0133	0.22	5.00	5.26	5.38	5.15	4.25 to 5.75	105	70 to 130	2.25	20
AZ02474	Mangenese, Total	mg/L	0.0000173	0.0022	0.10	0.107	0.112	0.0967	0.085 to 0.115	96.1	70 to 130	4.40	20
AZ02474	Molybdenum, Total	mg/L	0.0000147	0.0044	0.10	0.0907	0.0951	0.106	0.085 to 0.115	90.7	70 to 130	4.81	20
AZ02474	Lead, Total	mg/L	0.00000735	0.0022	0.10	0.0942	0.0972	0.101	0.085 to 0.115	94.2	70 to 130	3.11	20
AZ02474	Barium, Total	mg/L	-0.00000726	0.0044	0.10	0.120	0.124	0.111	0.085 to 0.115	112	70 to 130	4.00	20
AZ02474	Cobalt, Total	mg/L	0.000000876	0.0044	0.10	0.0897	0.0944	0.101	0.085 to 0.115	89.7	70 to 130	5.04	20
AZ02474	Chromium, Total	mg/L	0.0000545	0.0044	0.10	0.0869	0.0900	0.0996	0.085 to 0.115	86.9	70 to 130	3.42	20
AZ02474	Iron, Dissolved	mg/L	-0.000350	0.022	0.2	0.205	0.208	0.204	0.17 to 0.23	102	70 to 130	1.45	20
AZ02474	Sodium, Total	mg/L	-0.000640	0.22	5.00	81.6	85.1	5.03	4.25 to 5.75	-4.67	70 to 130	4.25	20
AZ02474	Antimony, Total	mg/L	0.000199	0.00176	0.10	0.0892	0.0940	0.105	0.085 to 0.115	89.2	70 to 130	5.20	20
AZ02474	Calcium, Total	mg/L	-0.00132	0.22	5.00	7.92	8.04	5.14	4.25 to 5.75	101	70 to 130	1.61	20
AZ02474	Mercury, Total by CVAA	mg/L	0.000000114	0.0005	0.004	0.00391	0.00386	0.00384	0.0034 to 0.0046	97.8	70 to 130	1.19	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Sodium is out of spec. Spike amount is less than 30% of the sample amount. LBM 2/25/19

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Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 30-Jan-19
Customer ID:
Delivery Date: 30-Jan-19

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ02474

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ02474	Alkalinity, Total as CaCO3	mg/L					145	49.3	45.0 to 55.0			0.235	10
AZ02474	Sulfate	mg/L	-0.086	0.50	20.0	31.1	11.0	19.2	18 to 22	100	80 to 120	0.00	20
AZ02474	Chloride	mg/L	-0.0123	0.50	10.0	13.0	3.03	9.93	9 to 11	99.6	80 to 120	0.329	20
AZ02474	pH for Alkalinity	SU						7.01	6.95 to 7.05				
AZ02474	Fluoride	mg/L	0.0147	0.05	2.50	2.86	0.263	2.60	2.25 to 2.75	104	80 to 120	0.380	20
AZ02474	Solids, Dissolved	mg/L	0.0000	25			190	54.0	40 to 60			1.60	5

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ08025

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	J	0.00274	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.102	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/2/2019	EPA 200.7		2.03	0.02	0.1		0.296	mg/L
* Calcium, Total	GAS	4/2/2019	EPA 200.7		10.15	1.015	5.075	RA	180	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00133	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.170	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Iron, Dissolved	GAS	4/2/2019	EPA 200.7		10.15	0.1015	0.5075	RA	33.0	mg/L
* Iron, Total	GAS	4/2/2019	EPA 200.7		101.5	1.015	5.075	RA	29.5	mg/L
* Mercury, Total by CVAA	ABB	4/3/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Magnesium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5		36.8	mg/L
* Mangenese, Dissolved	DLJ	4/2/2019	EPA 200.8		10.15	0.01015	0.05075	RA	8.64	mg/L
* Mangenese, Total	DLJ	4/2/2019	EPA 200.8		10.15	0.01015	0.05075	RA	8.47	mg/L
* Potassium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.215	2.5		5.93	mg/L
* Sodium, Total	GAS	4/2/2019	EPA 200.7		2.03	0.1	0.5		27.6	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Total Iron, Dissolved Iron, Total Manganese, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 4/11/19

Reported: 4/15/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ08025

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
pH for Alkalinity	HRG	4/3/2019	SM 4500H+ B		1		4.00		6.30	SU
Alkalinity, Total as CaCO3	HRG	4/3/2019	SM 2320 B		1		0.1		87.8	mg/L
Carbonate Alkalinity, as CaCO3	HRG	4/3/2019	SM 4500CO2 D		1				0.02	mg/L
Bicarbonate Alkalinity, as CaCO3	HRG	4/3/2019	SM 4500CO2 D		1				87.8	mg/L
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		50		904	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		11.6	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.178	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		50	25.00	50		609	mg/L

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Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Total Iron, Dissolved Iron, Total Manganese, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 4/11/19

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Batch QC Summary

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To: Dustin Brooks
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Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ08025

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08025	Antimony, Total	mg/L	0.000279	0.00176	0.10	0.0976	0.0974	0.0965	0.085 to 0.115	96.2	70 to 130	0.144	20
AZ08025	Boron, Total	mg/L	-0.00203	0.044	1.00	1.29	1.33	0.976	0.85 to 1.15	99.5	70 to 130	2.74	20
AZ08025	Selenium, Total	mg/L	0.0000323	0.0044	0.10	0.0976	0.0924	0.103	0.085 to 0.115	97.6	70 to 130	5.48	20
AZ08025	Arsenic, Total	mg/L	0.00000353	0.0022	0.10	0.0980	0.0975	0.104	0.085 to 0.115	95.3	70 to 130	0.513	20
AZ08025	Beryllium, Total	mg/L	0.0000279	0.00132	0.10	0.101	0.104	0.107	0.085 to 0.115	101	70 to 130	2.61	20
AZ08025	Cadmium, Total	mg/L	-0.00000004	0.00066	0.10	0.0961	0.0968	0.103	0.085 to 0.115	96.1	70 to 130	0.714	20
AZ08025	Chromium, Total	mg/L	-0.000116	0.0044	0.10	0.0950	0.0973	0.105	0.085 to 0.115	95.0	70 to 130	2.31	20
AZ08025	Lithium, Total	mg/L	-0.000209	0.022	0.20	0.225	0.229	0.197	0.17 to 0.23	112	70 to 130	2.06	20
AZ08025	Barium, Total	mg/L	0.00000895	0.0044	0.10	0.188	0.187	0.0967	0.085 to 0.115	85.9	70 to 130	0.530	20
AZ08025	Magnesium, Total	mg/L	-0.00832	0.22	5.00	41.4	41.9	4.98	4.25 to 5.75	92.0	70 to 130	1.21	20
AZ08025	Mangenese, Dissolved	mg/L	0.00000772	0.0022	0.10	8.68	8.65		0.085 to 0.115	43.4	70 to 130	0.382	20
AZ08025	Calcium, Total	mg/L	-0.00374	0.22	5.00	180	165	5.06	4.25 to 5.75	0.00	70 to 130	8.70	20
AZ08025	Cobalt, Total	mg/L	-0.0000169	0.0044	0.10	0.263	0.270	0.105	0.085 to 0.115	93.1	70 to 130	2.63	20
AZ08025	Potassium, Total	mg/L	-0.0145	0.473	10.0	15.0	15.2	10.0	8.5 to 11.5	90.4	70 to 130	1.82	20
AZ08025	Lead, Total	mg/L	0.00000433	0.0022	0.10	0.0998	0.101	0.106	0.085 to 0.115	99.8	70 to 130	0.702	20
AZ08025	Iron, Dissolved	mg/L	-0.000384	0.022	0.2	33.0	30.2	0.202	0.17 to 0.23	-10.6	70 to 130	8.83	20
AZ08025	Mangenese, Total	mg/L	0.0000209	0.0022	0.100	8.45	8.67	0.104	0.085 to 0.115	-20.0	70 to 130	2.57	20
AZ08025	Molybdenum, Total	mg/L	0.00000415	0.0044	0.10	0.0970	0.0952	0.101	0.085 to 0.115	97.0	70 to 130	1.81	20
AZ08025	Sodium, Total	mg/L	-0.00868	0.22	5.00	32.2	32.5	5.08	4.25 to 5.75	91.6	70 to 130	0.967	20
AZ08025	Iron, Total	mg/L	-0.000157	0.022	0.2	28.9	28.8	0.199	0.17 to 0.23	-320	70 to 130	0.253	20
AZ08025	Mercury, Total by CVAA	mg/L	0.00000749	0.0005	0.004	0.00390	0.00393	0.00391	0.0034 to 0.0046	97.4	70 to 130	0.849	20
AZ08025	Thallium, Total	mg/L	-0.00000285	0.00044	0.10	0.0968	0.0967	0.105	0.085 to 0.115	96.8	70 to 130	0.0822	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Total Iron, Dissolved Iron, Total Manganese, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 4/11/19

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ08025

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08025	Chloride	mg/L	0.00753	0.50	10.0	21.2	11.6	9.99	9 to 11	96.0	80 to 120	0.00	20
AZ08025	Sulfate	mg/L	-0.302	0.50	1000	1490	623	19.5	18 to 22	88.1	80 to 120	2.27	20
AZ08025	Solids, Dissolved	mg/L	1.00	25			916	57.0	40 to 60			0.659	5
AZ08025	pH for Alkalinity	SU						7.02	6.95 to 7.05				
AZ08025	Fluoride	mg/L	0.00287	0.05	2.50	2.59	0.188	2.47	2.25 to 2.75	96.5	80 to 120	5.46	20
AZ08025	Alkalinity, Total as CaCO3	mg/L					88.0	49.3	45.0 to 55.0			0.159	10

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Recovery for Calcium, Total Iron, Dissolved Iron, Total Manganese, and Dissolved Manganese are out of spec. Spike amounts are less than 30% of the sample amount. LBM 4/11/19

CC:

Reported: 4/15/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Definitions

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	Anions	250 mL	7	N/A	N/A
2	Hg	250 mL	4	Dissolved Meta	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting well name to MW-34HA. LBM 1/22/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-38H	1/14/19	16:22	6	Groundwater		AZ01497
MW-40H	01/15/2019	10:28	6	Groundwater		AZ01498
MW-40HDup	01/15/2019	10:28	6	Sample Duplicate		AZ01499
MW-39H	01/15/2019	11:50	6	Groundwater		AZ01500
MW-37H	01/15/2019	13:38	6	Groundwater		AZ01501
MW-41H	01/15/2019	15:12	6	Groundwater		AZ01502
MW-41HDup	01/15/2019	15:12	6	Sample Duplicate		AZ01503
MW-42H	01/15/2019	16:50	6	Groundwater		AZ01504
MW-35H	01/16/2019	09:00	6	Groundwater		AZ01505
FB-1	01/16/2019	09:15	5	Field Blank		AZ01506
MW-43H	01/16/2019	10:39	6	Groundwater		AZ01507
FB-2	01/16/2019	10:25	5	Field Blank		AZ01508
MW-44H	01/16/2019	13:56	6	Groundwater		AZ01509
MW-34HA	01/17/2019	10:50	6	Groundwater		AZ01510
EB-1	01/17/2019	11:10	5	Equipment Blank		AZ01511

Relinquished By	Received By	Date/Time
		01/17/2019 14:35

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	0.4 degrees C
Sample Event	1201	Thermometer ID	5408-27568-2-2
		pH Strip ID	7114-38608-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	Anions	250 mL	7	N/A	N/A
2	Hg	250 mL	4	Dissolved Meta	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	1/30/19	12:48	6	Groundwater		AZ02474

Relinquished By	Received By	Date/Time
		01/30/2019 16:08

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	0.4 degrees C
Sample Event	1201	Thermometer ID	5408-27568-2-2
		pH Strip ID	7114-38608-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 03/28/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Nick Pitts	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	Anions	250 mL	7	N/A	N/A
2	Hg	250 mL	4	Dissolved Meta	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Customer requests results by 4/15/19. LBM 3/28/19
Updating Dissolved Metals bottle to 500mL. LBM 3/29/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4	3/27/19	16:15	6	Groundwater		AZ08025

Relinquished By	Received By	Date/Time
		03/28/2019 11:05

SmarTroll ID	7151-38850-2-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20009-2-1	Cooler Temp	0.7 degrees C
Sample Event	1201	Thermometer ID	5408-27568-2-2
		pH Strip ID	7260-39349-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Correcting well name to MW-34HA. LBM 1/22/19

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-38H	1/14/19	16:22	1	Groundwater		AZ01512
MW-40H	01/15/2019	10:28	1	Groundwater		AZ01513
MW-40HDup	01/15/2019	10:28	1	Sample Duplicate		AZ01514
MW-39H	01/15/2019	11:50	3	Groundwater		AZ01515
MW-37H	01/15/2019	13:38	1	Groundwater		AZ01516
MW-41H	01/15/2019	15:12	1	Groundwater		AZ01517
MW-41HDup	01/15/2019	15:12	1	Sample Duplicate		AZ01518
MW-42H	01/15/2019	16:50	1	Groundwater		AZ01519
MW-35H	01/16/2019	09:00	1	Groundwater		AZ01520
FB-1	01/16/2019	09:15	1	Field Blank		AZ01521
MW-43H	01/16/2019	10:39	1	Groundwater		AZ01522
FB-2	01/16/2019	10:25	1	Field Blank		AZ01523
MW-44H	01/16/2019	13:56	1	Groundwater		AZ01524
MW-34HA	01/17/2019	10:50	1	Groundwater		AZ01525
EB-1	01/17/2019	11:10	1	Equipment Blank		AZ01526

Relinquished By	Received By	Date/Time
		01/17/2019 14:35

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1201	Thermometer ID	N/A
		pH Strip ID	7114-38608-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	1/30/19	12:48	1	Groundwater		AZ02475

Relinquished By	Received By	Date/Time
		01/30/2019 16:08

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1201	Thermometer ID	N/A
		pH Strip ID	7114-38608-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA: 03/28/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Nick Pitts	Location	Greene Ash Pond

Bottles												
1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4	3/27/19	16:15	1	Groundwater		AZ08026

Relinquished By	Received By	Date/Time
		03/28/2019 11:05

SmarTroll ID	7151-38850-2-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20009-2-1	Cooler Temp	N/A
Sample Event	1201	Thermometer ID	N/A
		pH Strip ID	7260-39349-1-1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-165509-1
TestAmerica Sample Delivery Group: Greene Ash Pond 1201
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
3/6/2019 1:46:55 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

Table of Contents

Job ID: 400-165509-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-165509-1

RAD

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-414180. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. AZ01512 MW-38H (400-165509-1), AZ01513 MW-40H (400-165509-2), AZ01514 MW-40H DUP (400-165509-3), AZ01515 MW-39H (400-165509-4), AZ01515 MW-39H (400-165509-4[DU]), AZ01516 MW-37H (400-165509-5), AZ01517 MW-41H (400-165509-6), AZ01518 MW-41H DUP (400-165509-7), AZ01519 MW-42H (400-165509-8), AZ01520 MW-35H (400-165509-9), AZ01521 FB-1 (400-165509-10), AZ01522 MW-43H (400-165509-11), AZ01523 FB-2 (400-165509-12), AZ01524 MW-44H (400-165509-13), AZ01525 MW-34HA (400-165509-14), AZ01526 EB-1 (400-165509-15), AZ02475 MW-36H (400-165509-16), (LCS 160-414180/1-A) and (MB 160-414180/20-A)

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-414180. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ01512 MW-38H (400-165509-1), AZ01513 MW-40H (400-165509-2), AZ01514 MW-40H DUP (400-165509-3), AZ01515 MW-39H (400-165509-4), AZ01515 MW-39H (400-165509-4[DU]), AZ01516 MW-37H (400-165509-5), AZ01517 MW-41H (400-165509-6), AZ01518 MW-41H DUP (400-165509-7), AZ01519 MW-42H (400-165509-8), AZ01520 MW-35H (400-165509-9), AZ01521 FB-1 (400-165509-10), AZ01522 MW-43H (400-165509-11), AZ01523 FB-2 (400-165509-12), AZ01524 MW-44H (400-165509-13), AZ01525 MW-34HA (400-165509-14), AZ01526 EB-1 (400-165509-15), AZ02475 MW-36H (400-165509-16), (LCS 160-414180/1-A) and (MB 160-414180/20-A)

Method(s) PrecSep_0: Radium-228 Prep Batch 414185. The following samples were run at a reduced aliquot due to insufficient sample volume: AZ01512 MW-38H (400-165509-1), AZ01513 MW-40H (400-165509-2), AZ01514 MW-40H DUP (400-165509-3), AZ01515 MW-39H (400-165509-4), AZ01515 MW-39H (400-165509-4[DU]), AZ01516 MW-37H (400-165509-5), AZ01517 MW-41H (400-165509-6), AZ01518 MW-41H DUP (400-165509-7), AZ01519 MW-42H (400-165509-8), AZ01520 MW-35H (400-165509-9), AZ01521 FB-1 (400-165509-10), AZ01522 MW-43H (400-165509-11), AZ01523 FB-2 (400-165509-12), AZ01524 MW-44H (400-165509-13), AZ01525 MW-34HA (400-165509-14), AZ01526 EB-1 (400-165509-15) and AZ02475 MW-36H (400-165509-16).

Method(s) PrecSep-21: Radium-226 Prep Batch 414180. The following samples were run at a reduced aliquot due to insufficient sample volume: AZ01512 MW-38H (400-165509-1), AZ01513 MW-40H (400-165509-2), AZ01514 MW-40H DUP (400-165509-3), AZ01515 MW-39H (400-165509-4), AZ01515 MW-39H (400-165509-4[DU]), AZ01516 MW-37H (400-165509-5), AZ01517 MW-41H (400-165509-6), AZ01518 MW-41H DUP (400-165509-7), AZ01519 MW-42H (400-165509-8), AZ01520 MW-35H (400-165509-9), AZ01521 FB-1 (400-165509-10), AZ01522 MW-43H (400-165509-11), AZ01523 FB-2 (400-165509-12), AZ01524 MW-44H (400-165509-13), AZ01525 MW-34HA (400-165509-14), AZ01526 EB-1 (400-165509-15) and AZ02475 MW-36H (400-165509-16).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-165509-1	AZ01512 MW-38H	Water	01/14/19 16:22	02/01/19 15:00
400-165509-2	AZ01513 MW-40H	Water	01/15/19 10:28	02/01/19 15:00
400-165509-3	AZ01514 MW-40H DUP	Water	01/15/19 10:28	02/01/19 15:00
400-165509-4	AZ01515 MW-39H	Water	01/15/19 11:50	02/01/19 15:00
400-165509-5	AZ01516 MW-37H	Water	01/15/19 13:38	02/01/19 15:00
400-165509-6	AZ01517 MW-41H	Water	01/15/19 15:12	02/01/19 15:00
400-165509-7	AZ01518 MW-41H DUP	Water	01/15/19 15:12	02/01/19 15:00
400-165509-8	AZ01519 MW-42H	Water	01/15/19 16:50	02/01/19 15:00
400-165509-9	AZ01520 MW-35H	Water	01/16/19 09:00	02/01/19 15:00
400-165509-10	AZ01521 FB-1	Water	01/16/19 09:15	02/01/19 15:00
400-165509-11	AZ01522 MW-43H	Water	01/16/19 10:39	02/01/19 15:00
400-165509-12	AZ01523 FB-2	Water	01/16/19 10:25	02/01/19 15:00
400-165509-13	AZ01524 MW-44H	Water	01/16/19 13:56	02/01/19 15:00
400-165509-14	AZ01525 MW-34HA	Water	01/17/19 10:50	02/01/19 15:00
400-165509-15	AZ01526 EB-1	Water	01/17/19 11:10	02/01/19 15:00
400-165509-16	AZ02475 MW-36H	Water	01/30/19 12:48	02/01/19 15:00

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Client Sample ID: AZ01512 MW-38H

Date Collected: 01/14/19 16:22
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121	U	0.110	0.111	1.00	0.163	pCi/L	02/08/19 10:30	03/04/19 05:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.317	0.317	1.00	0.527	pCi/L	02/08/19 11:10	02/28/19 09:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*
Y Carrier	*88.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.359	U	0.336	0.336	5.00	0.527	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01513 MW-40H

Date Collected: 01/15/19 10:28
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151	U	0.114	0.115	1.00	0.157	pCi/L	02/08/19 10:30	03/04/19 05:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.296	0.297	1.00	0.491	pCi/L	02/08/19 11:10	02/28/19 09:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*
Y Carrier	*87.1*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.387	U	0.317	0.318	5.00	0.491	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01514 MW-40H DUP

Lab Sample ID: 400-165509-3

Date Collected: 01/15/19 10:28

Matrix: Water

Date Received: 02/01/19 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0939	U	0.110	0.110	1.00	0.178	pCi/L	02/08/19 10:30	03/04/19 05:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.205	U	0.310	0.311	1.00	0.521	pCi/L	02/08/19 11:10	02/28/19 09:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*
Y Carrier	*82.6*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.299	U	0.329	0.330	5.00	0.521	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01515 MW-39H

Date Collected: 01/15/19 11:50
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.383		0.156	0.160	1.00	0.156	pCi/L	02/08/19 10:30	03/04/19 05:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.518		0.324	0.328	1.00	0.499	pCi/L	02/08/19 11:10	02/28/19 09:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*
Y Carrier	*90.8*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.901		0.360	0.365	5.00	0.499	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01516 MW-37H

Date Collected: 01/15/19 13:38
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151	U	0.114	0.115	1.00	0.157	pCi/L	02/08/19 10:30	03/04/19 05:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.203	U	0.323	0.323	1.00	0.543	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*86.0*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.354	U	0.343	0.343	5.00	0.543	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01517 MW-41H

Date Collected: 01/15/19 15:12
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.284**		0.135	0.137	1.00	0.134	pCi/L	02/08/19 10:30	03/04/19 05:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.556	U	0.373	0.376	1.00	0.582	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*87.5*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.839**		0.397	0.400	5.00	0.582	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01518 MW-41H DUP

Lab Sample ID: 400-165509-7

Date Collected: 01/15/19 15:12

Matrix: Water

Date Received: 02/01/19 15:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.392**		0.160	0.164	1.00	0.160	pCi/L	02/08/19 10:30	03/04/19 05:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.109	U	0.302	0.303	1.00	0.557	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*87.1*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.283	U	0.342	0.345	5.00	0.557	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01519 MW-42H

Date Collected: 01/15/19 16:50
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.342**		0.148	0.152	1.00	0.156	pCi/L	02/08/19 10:30	03/04/19 05:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.313	0.315	1.00	0.495	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*86.4*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.739**		0.346	0.350	5.00	0.495	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01520 MW-35H

Date Collected: 01/16/19 09:00
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-9

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0961	U	0.108	0.108	1.00	0.175	pCi/L	02/08/19 10:30	03/04/19 05:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*02/08/19 10:30*	*03/04/19 05:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0754	U	0.232	0.232	1.00	0.433	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*92.0*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0207	U	0.256	0.256	5.00	0.433	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01521 FB-1

Date Collected: 01/16/19 09:15
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-10

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00951	U	0.0995	0.0995	1.00	0.195	pCi/L	02/08/19 10:30	03/04/19 06:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:11*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.379	U	0.334	0.336	1.00	0.536	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*81.5*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.388	U	0.349	0.350	5.00	0.536	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01522 MW-43H

Date Collected: 01/16/19 10:39
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-11

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.329**		0.150	0.153	1.00	0.170	pCi/L	02/08/19 10:30	03/04/19 06:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:11*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0967	U	0.255	0.255	1.00	0.443	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*88.6*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.426	U	0.296	0.297	5.00	0.443	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01523 FB-2

Date Collected: 01/16/19 10:25
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-12

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0311	U	0.0744	0.0744	1.00	0.140	pCi/L	02/08/19 10:30	03/04/19 06:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.1*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:11*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0975	U	0.235	0.235	1.00	0.407	pCi/L	02/08/19 11:10	02/28/19 09:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.1*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*
Y Carrier	*90.8*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:47*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.129	U	0.246	0.246	5.00	0.407	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01524 MW-44H

Date Collected: 01/16/19 13:56
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.300**		0.144	0.147	1.00	0.158	pCi/L	02/08/19 10:30	03/04/19 06:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:11*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.123	U	0.309	0.310	1.00	0.534	pCi/L	02/08/19 11:10	02/28/19 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*
Y Carrier	*86.4*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.422	U	0.341	0.343	5.00	0.534	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01525 MW-34HA

Date Collected: 01/17/19 10:50
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.252**		0.134	0.136	1.00	0.154	pCi/L	02/08/19 10:30	03/04/19 06:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:13*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.376	U	0.355	0.357	1.00	0.574	pCi/L	02/08/19 11:10	02/28/19 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*
Y Carrier	*80.0*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.628**		0.379	0.382	5.00	0.574	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ01526 EB-1

Date Collected: 01/17/19 11:10
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0176	U	0.0705	0.0705	1.00	0.164	pCi/L	02/08/19 10:30	03/04/19 06:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:13*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.242	U	0.279	0.280	1.00	0.460	pCi/L	02/08/19 11:10	02/28/19 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*
Y Carrier	*88.2*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.224	U	0.288	0.289	5.00	0.460	pCi/L		03/06/19 10:37	1

Client Sample ID: AZ02475 MW-36H

Date Collected: 01/30/19 12:48
Date Received: 02/01/19 15:00

Lab Sample ID: 400-165509-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145	U	0.112	0.113	1.00	0.157	pCi/L	02/08/19 10:30	03/04/19 06:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:13*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.334	U	0.311	0.313	1.00	0.501	pCi/L	02/08/19 11:10	02/28/19 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*
Y Carrier	*84.9*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.479	U	0.331	0.333	5.00	0.501	pCi/L		03/06/19 10:37	1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Client Sample ID: AZ01512 MW-38H
Lab Sample ID: 400-165509-1
Date Collected: 01/14/19 16:22
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417538	03/04/19 05:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:46	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01513 MW-40H
Lab Sample ID: 400-165509-2
Date Collected: 01/15/19 10:28
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417538	03/04/19 05:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:46	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01514 MW-40H DUP
Lab Sample ID: 400-165509-3
Date Collected: 01/15/19 10:28
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417538	03/04/19 05:30	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:46	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01515 MW-39H
Lab Sample ID: 400-165509-4
Date Collected: 01/15/19 11:50
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:35	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:46	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01516 MW-37H

Lab Sample ID: 400-165509-5

Date Collected: 01/15/19 13:38
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:35	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01517 MW-41H

Lab Sample ID: 400-165509-6

Date Collected: 01/15/19 15:12
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:35	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01518 MW-41H DUP

Lab Sample ID: 400-165509-7

Date Collected: 01/15/19 15:12
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:39	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01519 MW-42H

Lab Sample ID: 400-165509-8

Date Collected: 01/15/19 16:50
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:39	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01520 MW-35H

Lab Sample ID: 400-165509-9

Date Collected: 01/16/19 09:00
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 05:39	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01521 FB-1

Lab Sample ID: 400-165509-10

Date Collected: 01/16/19 09:15
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 06:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01522 MW-43H

Lab Sample ID: 400-165509-11

Date Collected: 01/16/19 10:39
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 06:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01523 FB-2

Lab Sample ID: 400-165509-12

Date Collected: 01/16/19 10:25
Matrix: Water
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 06:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417282	02/28/19 09:47	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Client Sample ID: AZ01524 MW-44H

Lab Sample ID: 400-165509-13
Matrix: Water
Date Collected: 01/16/19 13:56
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417539	03/04/19 06:11	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417283	02/28/19 09:49	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01525 MW-34HA

Lab Sample ID: 400-165509-14
Matrix: Water
Date Collected: 01/17/19 10:50
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417536	03/04/19 06:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417283	02/28/19 09:49	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ01526 EB-1

Lab Sample ID: 400-165509-15
Matrix: Water
Date Collected: 01/17/19 11:10
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417536	03/04/19 06:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417283	02/28/19 09:49	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Client Sample ID: AZ02475 MW-36H

Lab Sample ID: 400-165509-16
Matrix: Water
Date Collected: 01/30/19 12:48
Date Received: 02/01/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			414180	02/08/19 10:30	HET	TAL SL
Total/NA	Analysis	9315		1	417536	03/04/19 06:13	CDR	TAL SL
Total/NA	Prep	PrecSep_0			414185	02/08/19 11:10	HET	TAL SL
Total/NA	Analysis	9320		1	417283	02/28/19 09:49	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	417901	03/06/19 10:37	RTM	TAL SL

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Rad

Prep Batch: 414180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-165509-1	AZ01512 MW-38H	Total/NA	Water	PrecSep-21	
400-165509-2	AZ01513 MW-40H	Total/NA	Water	PrecSep-21	
400-165509-3	AZ01514 MW-40H DUP	Total/NA	Water	PrecSep-21	
400-165509-4	AZ01515 MW-39H	Total/NA	Water	PrecSep-21	
400-165509-5	AZ01516 MW-37H	Total/NA	Water	PrecSep-21	
400-165509-6	AZ01517 MW-41H	Total/NA	Water	PrecSep-21	
400-165509-7	AZ01518 MW-41H DUP	Total/NA	Water	PrecSep-21	
400-165509-8	AZ01519 MW-42H	Total/NA	Water	PrecSep-21	
400-165509-9	AZ01520 MW-35H	Total/NA	Water	PrecSep-21	
400-165509-10	AZ01521 FB-1	Total/NA	Water	PrecSep-21	
400-165509-11	AZ01522 MW-43H	Total/NA	Water	PrecSep-21	
400-165509-12	AZ01523 FB-2	Total/NA	Water	PrecSep-21	
400-165509-13	AZ01524 MW-44H	Total/NA	Water	PrecSep-21	
400-165509-14	AZ01525 MW-34HA	Total/NA	Water	PrecSep-21	
400-165509-15	AZ01526 EB-1	Total/NA	Water	PrecSep-21	
400-165509-16	AZ02475 MW-36H	Total/NA	Water	PrecSep-21	
MB 160-414180/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-414180/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-165509-4 DU	AZ01515 MW-39H	Total/NA	Water	PrecSep-21	

Prep Batch: 414185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-165509-1	AZ01512 MW-38H	Total/NA	Water	PrecSep_0	
400-165509-2	AZ01513 MW-40H	Total/NA	Water	PrecSep_0	
400-165509-3	AZ01514 MW-40H DUP	Total/NA	Water	PrecSep_0	
400-165509-4	AZ01515 MW-39H	Total/NA	Water	PrecSep_0	
400-165509-5	AZ01516 MW-37H	Total/NA	Water	PrecSep_0	
400-165509-6	AZ01517 MW-41H	Total/NA	Water	PrecSep_0	
400-165509-7	AZ01518 MW-41H DUP	Total/NA	Water	PrecSep_0	
400-165509-8	AZ01519 MW-42H	Total/NA	Water	PrecSep_0	
400-165509-9	AZ01520 MW-35H	Total/NA	Water	PrecSep_0	
400-165509-10	AZ01521 FB-1	Total/NA	Water	PrecSep_0	
400-165509-11	AZ01522 MW-43H	Total/NA	Water	PrecSep_0	
400-165509-12	AZ01523 FB-2	Total/NA	Water	PrecSep_0	
400-165509-13	AZ01524 MW-44H	Total/NA	Water	PrecSep_0	
400-165509-14	AZ01525 MW-34HA	Total/NA	Water	PrecSep_0	
400-165509-15	AZ01526 EB-1	Total/NA	Water	PrecSep_0	
400-165509-16	AZ02475 MW-36H	Total/NA	Water	PrecSep_0	
MB 160-414185/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-414185/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-165509-4 DU	AZ01515 MW-39H	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-414180/20-A
Matrix: Water
Analysis Batch: 417536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 414180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.006253	U	0.0640	0.0640	1.00	0.139	pCi/L	02/08/19 10:30	03/04/19 06:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*40 - 110*	*02/08/19 10:30*	*03/04/19 06:13*	*1*

Lab Sample ID: LCS 160-414180/1-A
Matrix: Water
Analysis Batch: 417538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 414180

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.16		1.35	1.00	0.184	pCi/L	80	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.6*		*40 - 110*

Lab Sample ID: 400-165509-4 DU
Matrix: Water
Analysis Batch: 417539

Client Sample ID: AZ01515 MW-39H
Prep Type: Total/NA
Prep Batch: 414180

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.383			0.3591		0.151	1.00	0.130	pCi/L			0.08	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*94.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-414185/20-A
Matrix: Water
Analysis Batch: 417283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 414185

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.05377	U	0.291	0.291	1.00	0.527	pCi/L	02/08/19 11:10	02/28/19 09:49	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*
Y Carrier	*87.1*		*40 - 110*	*02/08/19 11:10*	*02/28/19 09:49*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-414185/1-A
Matrix: Water
Analysis Batch: 417282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 414185

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			12.6	11.79		1.37	1.00	0.431	pCi/L	94	56 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.6*		*40 - 110*
Y Carrier	*85.6*		*40 - 110*

Lab Sample ID: 400-165509-4 DU
Matrix: Water
Analysis Batch: 417282

Client Sample ID: AZ01515 MW-39H
Prep Type: Total/NA
Prep Batch: 414185

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.518			0.3849	U	0.378	1.00	0.613	pCi/L			0.19	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*94.1*		*40 - 110*
Y Carrier	*88.6*		*40 - 110*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-165509-4 DU
Matrix: Water
Analysis Batch: 417901

Client Sample ID: AZ01515 MW-39H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	0.901			0.7440		0.407	5.00	0.613	pCi/L			0.20	

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 1
Company: Alabama Power General Test Laboratory				Job #:

Address: 744 County Rd 87 GSC #8	Due Date Requested:
City: Calera	TAT Requested (days): Routine
State, Zip: AL, 35040	
Phone: 205-664-6197(Tel)	PO #:
Email: lbmidkif@southernco.com	WO #:
Project Name: CCR	Project #: 40007143
Site: Greene Ash Pond 1201	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

400-165509 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	D		
AZ01512	1/14/19	16:22	G	Water						X	1	MW-38H
AZ01513	1/15/19	10:28	G	Water						X	1	MW-40H
AZ01514	1/15/19	10:28	G	Water						X	1	MW-40H DUP (Sample Duplicate)
AZ01515	1/15/19	11:50	G	Water		X				X	3	MW-39H
AZ01516	1/15/19	13:38	G	Water						X	1	MW-37H
AZ01517	1/15/19	15:12	G	Water						X	1	MW-41H
AZ01518	1/15/19	15:12	G	Water						X	1	MW-41H DUP (Sample Duplicate)
AZ01519	1/15/19	16:50	G	Water						X	1	MW-42H
AZ01520	1/16/19	9:00	G	Water						X	1	MW-35H
AZ01521	1/16/19	09:15	G	Water						X	1	FB-1 (Field Blank)
AZ01522	1/16/19	10:39	G	Water						X	1	MW-43H
AZ01523	1/16/19	10:25	G	Water						X	1	FB-2 (Field Blank)
AZ01524	1/16/19	13:56	G	Water						X	1	MW-44H
AZ01525	1/17/19	10:50	G	Water						X	1	MW-34HA
AZ01526	1/17/19	11:10	G	Water						X	1	EB-1 (Equipment Blank)
AZ02475	1/30/19	12:48	G	Water						X	1	MW-36H

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Laura Midkiff	1/30/2019 16:41	Company APC	Received by:	Date/Time: 1-30-19 1500	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 10.6°C ER8

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-165509-1
SDG Number: Greene Ash Pond 1201

Login Number: 165509
List Number: 1
Creator: Shannon, Jonathon W

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	10.6°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-165509-1
SDG Number: Greene Ash Pond 1201

Login Number: 165509
List Number: 2
Creator: Press, Nicholas B

List Source: TestAmerica St. Louis
List Creation: 02/06/19 06:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	21.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD / DOE		L2305	04-06-19 *
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19
Connecticut	State Program	1	PH-0241	03-31-19 *
Florida	NELAP	4	E87689	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

TestAmerica Job ID: 400-165509-1
SDG: Greene Ash Pond 1201

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19
New York	NELAP	2	11616	03-31-19 *
North Dakota	State Program	8	R207	06-30-19
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-19 *
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-12	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-168076-1
Laboratory Sample Delivery Group: Greene Ash Pond 1201
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Cheyenne R Whitmire

Authorized for release by:
5/9/2019 9:43:40 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

Table of Contents

Job ID: 400-168076-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-168076-1

RAD

Method(s) 9315: Ra-226 Prep Batch 160-423610. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08026 PZ-4 (400-168076-1), (LCS 160-423610/1-A), (LCSD 160-423610/2-A) and (MB 160-423610/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-423816. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08026 PZ-4 (400-168076-1), (LCS 160-423816/1-A), (LCSD 160-423816/2-A) and (MB 160-423816/23-A)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-423816. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423816. An LCS/LCSD was created to demonstrate precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-423610. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423610. An LCS/LCSD was created to demonstrate precision.

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-168076-1	AZ08026 PZ-4	Water	03/27/19 16:15	04/01/19 16:30

Client Sample ID: AZ08026 PZ-4

Date Collected: 03/27/19 16:15
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168076-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.647		0.147	0.158	1.00	0.0895	pCi/L	04/14/19 16:44	05/07/19 07:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.296	0.311	1.00	0.367	pCi/L	04/14/19 16:44	04/24/19 08:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*
Y Carrier	*89.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.69		0.330	0.349	5.00	0.367	pCi/L		05/09/19 09:22	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Client Sample ID: AZ08026 PZ-4

Date Collected: 03/27/19 16:15
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168076-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 07:05	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427763	05/09/19 09:22	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Rad

Prep Batch: 423610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168076-1	AZ08026 PZ-4	Total/NA	Water	PrecSep-21	
MB 160-423610/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-423610/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-423610/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 423816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168076-1	AZ08026 PZ-4	Total/NA	Water	PrecSep_0	
MB 160-423816/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-423816/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-423816/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-423610/23-A
Matrix: Water
Analysis Batch: 427429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423610

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.003589	U	0.0451	0.0451	1.00	0.0937	pCi/L	04/14/19 16:44	05/07/19 09:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*05/07/19 09:56*	*1*

Lab Sample ID: LCS 160-423610/1-A
Matrix: Water
Analysis Batch: 427439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423610

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	9.678		1.03	1.00	0.0931	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.7*		*40 - 110*

Lab Sample ID: LCSD 160-423610/2-A
Matrix: Water
Analysis Batch: 427439

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423610

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.4	10.63		1.12	1.00	0.126	pCi/L	94	75 - 125	0.44	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*82.6*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-423816/23-A
Matrix: Water
Analysis Batch: 425402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423816

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2158	U	0.246	0.247	1.00	0.405	pCi/L	04/14/19 16:44	04/24/19 08:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*
Y Carrier	*93.8*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-423816/1-A
Matrix: Water
Analysis Batch: 425438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423816

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.27	9.982		1.14	1.00	0.372	pCi/L	108	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.7*		*40 - 110*
Y Carrier	*85.2*		*40 - 110*

Lab Sample ID: LCSD 160-423816/2-A
Matrix: Water
Analysis Batch: 425438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423816

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			9.27	9.706		1.14	1.00	0.386	pCi/L	105	75 - 125	0.12	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*82.6*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Nick Pitts	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 1
Company: Alabama Power General Test Laboratory				Job #:

Address: 744 County Rd 87 GSC #8	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Calera	TAT Requested (days): Routine		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: AL, 35040			
Phone: 205-664-6197(Tel)	PO #:		
Email: lbmidkif@southernco.com	WO #:		Other:
Project Name: CCR	Project #: 40007143		
Site: Greene Ash Pond 1201	SSOW#:		

400-168076 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	D		
AZ08026	3/27/19	16:15	G	Water						X	1	PZ-4

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Laura Midkiff	3/29/2019 10:30	Water APC	Received by:	Date/Time: 4/1/19 1630	Company TA PEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 18.0°C IR8

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-168076-1
SDG Number: Greene Ash Pond 1201

Login Number: 168076
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	18.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-168076-1
SDG Number: Greene Ash Pond 1201

Login Number: 168076
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/04/19 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-20
West Virginia DEP	State Program	3	136	07-31-19

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168076-1
SDG: Greene Ash Pond 1201

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	1/17/2019 10:29	Conductivity	272	uS/cm
GC-AP-MW-34HA	1/17/2019 10:29	DO	0.82	mg/L
GC-AP-MW-34HA	1/17/2019 10:29	Depth to Water Detail	23.17	ft
GC-AP-MW-34HA	1/17/2019 10:29	Oxidation Reduction Potention	-162.6	mv
GC-AP-MW-34HA	1/17/2019 10:29	pH	5.71	pH
GC-AP-MW-34HA	1/17/2019 10:29	Temperature	21.92	C
GC-AP-MW-34HA	1/17/2019 10:29	Turbidity	11.5	NTU
GC-AP-MW-34HA	1/17/2019 10:34	Conductivity	260.2	uS/cm
GC-AP-MW-34HA	1/17/2019 10:34	DO	0.89	mg/L
GC-AP-MW-34HA	1/17/2019 10:34	Depth to Water Detail	23.17	ft
GC-AP-MW-34HA	1/17/2019 10:34	Oxidation Reduction Potention	-154.1	mv
GC-AP-MW-34HA	1/17/2019 10:34	pH	5.72	pH
GC-AP-MW-34HA	1/17/2019 10:34	Temperature	21.78	C
GC-AP-MW-34HA	1/17/2019 10:34	Turbidity	4.11	NTU
GC-AP-MW-34HA	1/17/2019 10:39	Conductivity	249.1	uS/cm
GC-AP-MW-34HA	1/17/2019 10:39	DO	0.93	mg/L
GC-AP-MW-34HA	1/17/2019 10:39	Depth to Water Detail	23.17	ft
GC-AP-MW-34HA	1/17/2019 10:39	Oxidation Reduction Potention	-159.9	mv
GC-AP-MW-34HA	1/17/2019 10:39	pH	5.69	pH
GC-AP-MW-34HA	1/17/2019 10:39	Temperature	21.69	C
GC-AP-MW-34HA	1/17/2019 10:39	Turbidity	2.02	NTU
GC-AP-MW-34HA	1/17/2019 10:44	Conductivity	242.2	uS/cm
GC-AP-MW-34HA	1/17/2019 10:44	DO	0.97	mg/L
GC-AP-MW-34HA	1/17/2019 10:44	Depth to Water Detail	23.17	ft
GC-AP-MW-34HA	1/17/2019 10:44	Oxidation Reduction Potention	-151.9	mv
GC-AP-MW-34HA	1/17/2019 10:44	pH	5.67	pH
GC-AP-MW-34HA	1/17/2019 10:44	Temperature	21.66	C
GC-AP-MW-34HA	1/17/2019 10:44	Turbidity	1.25	NTU
GC-AP-MW-34HA	1/17/2019 10:49	Conductivity	241	uS/cm
GC-AP-MW-34HA	1/17/2019 10:49	DO	0.99	mg/L
GC-AP-MW-34HA	1/17/2019 10:49	Depth to Water Detail	23.17	ft
GC-AP-MW-34HA	1/17/2019 10:49	Oxidation Reduction Potention	-143.4	mv
GC-AP-MW-34HA	1/17/2019 10:49	pH	5.65	pH
GC-AP-MW-34HA	1/17/2019 10:49	Temperature	21.66	C
GC-AP-MW-34HA	1/17/2019 10:49	Turbidity	0.98	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	1/16/2019 8:43	Conductivity	145.7	uS/cm
GC-AP-MW-35H	1/16/2019 8:43	DO	7.58	mg/L
GC-AP-MW-35H	1/16/2019 8:43	Depth to Water Detail	19.2	ft
GC-AP-MW-35H	1/16/2019 8:43	Oxidation Reduction Potention	115.3	mv
GC-AP-MW-35H	1/16/2019 8:43	pH	5.98	pH
GC-AP-MW-35H	1/16/2019 8:43	Temperature	19.17	C
GC-AP-MW-35H	1/16/2019 8:43	Turbidity	4.43	NTU
GC-AP-MW-35H	1/16/2019 8:48	Conductivity	147.6	uS/cm
GC-AP-MW-35H	1/16/2019 8:48	DO	7.62	mg/L
GC-AP-MW-35H	1/16/2019 8:48	Depth to Water Detail	19.2	ft
GC-AP-MW-35H	1/16/2019 8:48	Oxidation Reduction Potention	112.1	mv
GC-AP-MW-35H	1/16/2019 8:48	pH	6.02	pH
GC-AP-MW-35H	1/16/2019 8:48	Temperature	19.21	C
GC-AP-MW-35H	1/16/2019 8:48	Turbidity	1.09	NTU
GC-AP-MW-35H	1/16/2019 8:53	Conductivity	144.5	uS/cm
GC-AP-MW-35H	1/16/2019 8:53	DO	7.75	mg/L
GC-AP-MW-35H	1/16/2019 8:53	Depth to Water Detail	19.2	ft
GC-AP-MW-35H	1/16/2019 8:53	Oxidation Reduction Potention	113.4	mv
GC-AP-MW-35H	1/16/2019 8:53	pH	6.03	pH
GC-AP-MW-35H	1/16/2019 8:53	Temperature	19.33	C
GC-AP-MW-35H	1/16/2019 8:53	Turbidity	1.01	NTU
GC-AP-MW-35H	1/16/2019 8:58	Conductivity	144.9	uS/cm
GC-AP-MW-35H	1/16/2019 8:58	DO	7.8	mg/L
GC-AP-MW-35H	1/16/2019 8:58	Depth to Water Detail	19.2	ft
GC-AP-MW-35H	1/16/2019 8:58	Oxidation Reduction Potention	114.5	mv
GC-AP-MW-35H	1/16/2019 8:58	pH	5.99	pH
GC-AP-MW-35H	1/16/2019 8:58	Temperature	19.41	C
GC-AP-MW-35H	1/16/2019 8:58	Turbidity	0.85	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	1/15/2019 12:51	Conductivity	1566.6	uS/cm
GC-AP-MW-37H	1/15/2019 12:51	DO	0.82	mg/L
GC-AP-MW-37H	1/15/2019 12:51	Depth to Water Detail	24.31	ft
GC-AP-MW-37H	1/15/2019 12:51	Oxidation Reduction Potention	-3.5	mv
GC-AP-MW-37H	1/15/2019 12:51	pH	6.14	pH
GC-AP-MW-37H	1/15/2019 12:51	Temperature	16.13	C
GC-AP-MW-37H	1/15/2019 12:51	Turbidity	10.52	NTU
GC-AP-MW-37H	1/15/2019 12:56	Conductivity	1575.5	uS/cm
GC-AP-MW-37H	1/15/2019 12:56	DO	0.73	mg/L
GC-AP-MW-37H	1/15/2019 12:56	Depth to Water Detail	24.7	ft
GC-AP-MW-37H	1/15/2019 12:56	Oxidation Reduction Potention	-0.2	mv
GC-AP-MW-37H	1/15/2019 12:56	pH	6.11	pH
GC-AP-MW-37H	1/15/2019 12:56	Temperature	16.53	C
GC-AP-MW-37H	1/15/2019 12:56	Turbidity	11.06	NTU
GC-AP-MW-37H	1/15/2019 13:01	Conductivity	1561	uS/cm
GC-AP-MW-37H	1/15/2019 13:01	DO	0.65	mg/L
GC-AP-MW-37H	1/15/2019 13:01	Depth to Water Detail	24.9	ft
GC-AP-MW-37H	1/15/2019 13:01	Oxidation Reduction Potention	2.9	mv
GC-AP-MW-37H	1/15/2019 13:01	pH	6.09	pH
GC-AP-MW-37H	1/15/2019 13:01	Temperature	16.69	C
GC-AP-MW-37H	1/15/2019 13:01	Turbidity	10.9	NTU
GC-AP-MW-37H	1/15/2019 13:06	Conductivity	1567.7	uS/cm
GC-AP-MW-37H	1/15/2019 13:06	DO	0.59	mg/L
GC-AP-MW-37H	1/15/2019 13:06	Depth to Water Detail	25.1	ft
GC-AP-MW-37H	1/15/2019 13:06	Oxidation Reduction Potention	5.2	mv
GC-AP-MW-37H	1/15/2019 13:06	pH	6.07	pH
GC-AP-MW-37H	1/15/2019 13:06	Temperature	16.79	C
GC-AP-MW-37H	1/15/2019 13:06	Turbidity	8.93	NTU
GC-AP-MW-37H	1/15/2019 13:11	Conductivity	1570.9	uS/cm
GC-AP-MW-37H	1/15/2019 13:11	DO	0.58	mg/L
GC-AP-MW-37H	1/15/2019 13:11	Depth to Water Detail	25.19	ft
GC-AP-MW-37H	1/15/2019 13:11	Oxidation Reduction Potention	8.8	mv
GC-AP-MW-37H	1/15/2019 13:11	pH	6.05	pH
GC-AP-MW-37H	1/15/2019 13:11	Temperature	16.44	C
GC-AP-MW-37H	1/15/2019 13:11	Turbidity	8.29	NTU
GC-AP-MW-37H	1/15/2019 13:16	Conductivity	1576.8	uS/cm
GC-AP-MW-37H	1/15/2019 13:16	DO	0.56	mg/L
GC-AP-MW-37H	1/15/2019 13:16	Depth to Water Detail	25.27	ft
GC-AP-MW-37H	1/15/2019 13:16	Oxidation Reduction Potention	13.7	mv
GC-AP-MW-37H	1/15/2019 13:16	pH	6.02	pH
GC-AP-MW-37H	1/15/2019 13:16	Temperature	16.7	C
GC-AP-MW-37H	1/15/2019 13:16	Turbidity	8.21	NTU
GC-AP-MW-37H	1/15/2019 13:21	Conductivity	1567.4	uS/cm
GC-AP-MW-37H	1/15/2019 13:21	DO	0.53	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	1/15/2019 13:21	Depth to Water Detail	25.39	ft
GC-AP-MW-37H	1/15/2019 13:21	Oxidation Reduction Potention	19	mv
GC-AP-MW-37H	1/15/2019 13:21	pH	5.99	pH
GC-AP-MW-37H	1/15/2019 13:21	Temperature	16.62	C
GC-AP-MW-37H	1/15/2019 13:21	Turbidity	7.93	NTU
GC-AP-MW-37H	1/15/2019 13:26	Conductivity	1562.7	uS/cm
GC-AP-MW-37H	1/15/2019 13:26	DO	0.48	mg/L
GC-AP-MW-37H	1/15/2019 13:26	Depth to Water Detail	25.5	ft
GC-AP-MW-37H	1/15/2019 13:26	Oxidation Reduction Potention	24.4	mv
GC-AP-MW-37H	1/15/2019 13:26	pH	5.97	pH
GC-AP-MW-37H	1/15/2019 13:26	Temperature	16.8	C
GC-AP-MW-37H	1/15/2019 13:26	Turbidity	7.01	NTU
GC-AP-MW-37H	1/15/2019 13:31	Conductivity	1538.3	uS/cm
GC-AP-MW-37H	1/15/2019 13:31	DO	0.45	mg/L
GC-AP-MW-37H	1/15/2019 13:31	Depth to Water Detail	25.64	ft
GC-AP-MW-37H	1/15/2019 13:31	Oxidation Reduction Potention	30.6	mv
GC-AP-MW-37H	1/15/2019 13:31	pH	5.91	pH
GC-AP-MW-37H	1/15/2019 13:31	Temperature	17.05	C
GC-AP-MW-37H	1/15/2019 13:31	Turbidity	5.19	NTU
GC-AP-MW-37H	1/15/2019 13:36	Conductivity	1557.2	uS/cm
GC-AP-MW-37H	1/15/2019 13:36	DO	0.45	mg/L
GC-AP-MW-37H	1/15/2019 13:36	Depth to Water Detail	25.7	ft
GC-AP-MW-37H	1/15/2019 13:36	Oxidation Reduction Potention	34.1	mv
GC-AP-MW-37H	1/15/2019 13:36	pH	5.88	pH
GC-AP-MW-37H	1/15/2019 13:36	Temperature	16.85	C
GC-AP-MW-37H	1/15/2019 13:36	Turbidity	4.56	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	1/14/2019 15:50	Conductivity	745.5	uS/cm
GC-AP-MW-38H	1/14/2019 15:50	DO	3.79	mg/L
GC-AP-MW-38H	1/14/2019 15:50	Depth to Water Detail	18.12	ft
GC-AP-MW-38H	1/14/2019 15:50	Oxidation Reduction Potention	69	mv
GC-AP-MW-38H	1/14/2019 15:50	pH	6.61	pH
GC-AP-MW-38H	1/14/2019 15:50	Temperature	16.61	C
GC-AP-MW-38H	1/14/2019 15:50	Turbidity	16.3	NTU
GC-AP-MW-38H	1/14/2019 15:55	Conductivity	741.9	uS/cm
GC-AP-MW-38H	1/14/2019 15:55	DO	3.41	mg/L
GC-AP-MW-38H	1/14/2019 15:55	Depth to Water Detail	18.1	ft
GC-AP-MW-38H	1/14/2019 15:55	Oxidation Reduction Potention	67.2	mv
GC-AP-MW-38H	1/14/2019 15:55	pH	6.6	pH
GC-AP-MW-38H	1/14/2019 15:55	Temperature	16.38	C
GC-AP-MW-38H	1/14/2019 15:55	Turbidity	10.05	NTU
GC-AP-MW-38H	1/14/2019 16:00	Conductivity	718.8	uS/cm
GC-AP-MW-38H	1/14/2019 16:00	DO	3.23	mg/L
GC-AP-MW-38H	1/14/2019 16:00	Depth to Water Detail	18.13	ft
GC-AP-MW-38H	1/14/2019 16:00	Oxidation Reduction Potention	65.9	mv
GC-AP-MW-38H	1/14/2019 16:00	pH	6.6	pH
GC-AP-MW-38H	1/14/2019 16:00	Temperature	16.22	C
GC-AP-MW-38H	1/14/2019 16:00	Turbidity	10.04	NTU
GC-AP-MW-38H	1/14/2019 16:05	Conductivity	691.5	uS/cm
GC-AP-MW-38H	1/14/2019 16:05	DO	2.68	mg/L
GC-AP-MW-38H	1/14/2019 16:05	Depth to Water Detail	18.12	ft
GC-AP-MW-38H	1/14/2019 16:05	Oxidation Reduction Potention	64.9	mv
GC-AP-MW-38H	1/14/2019 16:05	pH	6.55	pH
GC-AP-MW-38H	1/14/2019 16:05	Temperature	16.51	C
GC-AP-MW-38H	1/14/2019 16:05	Turbidity	5.87	NTU
GC-AP-MW-38H	1/14/2019 16:10	Conductivity	668.6	uS/cm
GC-AP-MW-38H	1/14/2019 16:10	DO	2.62	mg/L
GC-AP-MW-38H	1/14/2019 16:10	Depth to Water Detail	18.1	ft
GC-AP-MW-38H	1/14/2019 16:10	Oxidation Reduction Potention	60.5	mv
GC-AP-MW-38H	1/14/2019 16:10	pH	6.55	pH
GC-AP-MW-38H	1/14/2019 16:10	Temperature	16.11	C
GC-AP-MW-38H	1/14/2019 16:10	Turbidity	4.78	NTU
GC-AP-MW-38H	1/14/2019 16:15	Conductivity	656.4	uS/cm
GC-AP-MW-38H	1/14/2019 16:15	DO	2.42	mg/L
GC-AP-MW-38H	1/14/2019 16:15	Depth to Water Detail	18.1	ft
GC-AP-MW-38H	1/14/2019 16:15	Oxidation Reduction Potention	61.7	mv
GC-AP-MW-38H	1/14/2019 16:15	pH	6.54	pH
GC-AP-MW-38H	1/14/2019 16:15	Temperature	16.34	C
GC-AP-MW-38H	1/14/2019 16:15	Turbidity	3.88	NTU
GC-AP-MW-38H	1/14/2019 16:20	Conductivity	651	uS/cm
GC-AP-MW-38H	1/14/2019 16:20	DO	2.54	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	1/14/2019 16:20	Depth to Water Detail	18.1	ft
GC-AP-MW-38H	1/14/2019 16:20	Oxidation Reduction Potention	60.4	mv
GC-AP-MW-38H	1/14/2019 16:20	pH	6.56	pH
GC-AP-MW-38H	1/14/2019 16:20	Temperature	15.32	C
GC-AP-MW-38H	1/14/2019 16:20	Turbidity	3.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	1/15/2019 11:33	Conductivity	749.3	uS/cm
GC-AP-MW-39H	1/15/2019 11:33	DO	0.5	mg/L
GC-AP-MW-39H	1/15/2019 11:33	Depth to Water Detail	31.16	ft
GC-AP-MW-39H	1/15/2019 11:33	Oxidation Reduction Potention	-9.5	mv
GC-AP-MW-39H	1/15/2019 11:33	pH	6.41	pH
GC-AP-MW-39H	1/15/2019 11:33	Temperature	18.28	C
GC-AP-MW-39H	1/15/2019 11:33	Turbidity	4.05	NTU
GC-AP-MW-39H	1/15/2019 11:38	Conductivity	748.7	uS/cm
GC-AP-MW-39H	1/15/2019 11:38	DO	0.34	mg/L
GC-AP-MW-39H	1/15/2019 11:38	Depth to Water Detail	31.16	ft
GC-AP-MW-39H	1/15/2019 11:38	Oxidation Reduction Potention	-9.8	mv
GC-AP-MW-39H	1/15/2019 11:38	pH	6.4	pH
GC-AP-MW-39H	1/15/2019 11:38	Temperature	18.26	C
GC-AP-MW-39H	1/15/2019 11:38	Turbidity	2.17	NTU
GC-AP-MW-39H	1/15/2019 11:43	Conductivity	749.2	uS/cm
GC-AP-MW-39H	1/15/2019 11:43	DO	0.26	mg/L
GC-AP-MW-39H	1/15/2019 11:43	Depth to Water Detail	31.16	ft
GC-AP-MW-39H	1/15/2019 11:43	Oxidation Reduction Potention	-10.7	mv
GC-AP-MW-39H	1/15/2019 11:43	pH	6.4	pH
GC-AP-MW-39H	1/15/2019 11:43	Temperature	18.36	C
GC-AP-MW-39H	1/15/2019 11:43	Turbidity	1.72	NTU
GC-AP-MW-39H	1/15/2019 11:48	Conductivity	747	uS/cm
GC-AP-MW-39H	1/15/2019 11:48	DO	0.22	mg/L
GC-AP-MW-39H	1/15/2019 11:48	Depth to Water Detail	31.16	ft
GC-AP-MW-39H	1/15/2019 11:48	Oxidation Reduction Potention	-10	mv
GC-AP-MW-39H	1/15/2019 11:48	pH	6.4	pH
GC-AP-MW-39H	1/15/2019 11:48	Temperature	18.41	C
GC-AP-MW-39H	1/15/2019 11:48	Turbidity	1.23	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	1/15/2019 9:51	Conductivity	602.7	uS/cm
GC-AP-MW-40H	1/15/2019 9:51	DO	0.22	mg/L
GC-AP-MW-40H	1/15/2019 9:51	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 9:51	Oxidation Reduction Potention	64.2	mv
GC-AP-MW-40H	1/15/2019 9:51	pH	5.7	pH
GC-AP-MW-40H	1/15/2019 9:51	Temperature	18.32	C
GC-AP-MW-40H	1/15/2019 9:51	Turbidity	20	NTU
GC-AP-MW-40H	1/15/2019 9:56	Conductivity	601.1	uS/cm
GC-AP-MW-40H	1/15/2019 9:56	DO	0.2	mg/L
GC-AP-MW-40H	1/15/2019 9:56	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 9:56	Oxidation Reduction Potention	61.4	mv
GC-AP-MW-40H	1/15/2019 9:56	pH	5.69	pH
GC-AP-MW-40H	1/15/2019 9:56	Temperature	18.38	C
GC-AP-MW-40H	1/15/2019 9:56	Turbidity	17.3	NTU
GC-AP-MW-40H	1/15/2019 10:01	Conductivity	605.8	uS/cm
GC-AP-MW-40H	1/15/2019 10:01	DO	0.16	mg/L
GC-AP-MW-40H	1/15/2019 10:01	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:01	Oxidation Reduction Potention	65.7	mv
GC-AP-MW-40H	1/15/2019 10:01	pH	5.75	pH
GC-AP-MW-40H	1/15/2019 10:01	Temperature	18.36	C
GC-AP-MW-40H	1/15/2019 10:01	Turbidity	30.1	NTU
GC-AP-MW-40H	1/15/2019 10:06	Conductivity	595	uS/cm
GC-AP-MW-40H	1/15/2019 10:06	DO	0.14	mg/L
GC-AP-MW-40H	1/15/2019 10:06	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:06	Oxidation Reduction Potention	69.1	mv
GC-AP-MW-40H	1/15/2019 10:06	pH	5.66	pH
GC-AP-MW-40H	1/15/2019 10:06	Temperature	18.42	C
GC-AP-MW-40H	1/15/2019 10:06	Turbidity	22.1	NTU
GC-AP-MW-40H	1/15/2019 10:11	Conductivity	594.5	uS/cm
GC-AP-MW-40H	1/15/2019 10:11	DO	0.14	mg/L
GC-AP-MW-40H	1/15/2019 10:11	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:11	Oxidation Reduction Potention	69.7	mv
GC-AP-MW-40H	1/15/2019 10:11	pH	5.7	pH
GC-AP-MW-40H	1/15/2019 10:11	Temperature	18.36	C
GC-AP-MW-40H	1/15/2019 10:11	Turbidity	11.06	NTU
GC-AP-MW-40H	1/15/2019 10:16	Conductivity	590.2	uS/cm
GC-AP-MW-40H	1/15/2019 10:16	DO	0.13	mg/L
GC-AP-MW-40H	1/15/2019 10:16	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:16	Oxidation Reduction Potention	67.9	mv
GC-AP-MW-40H	1/15/2019 10:16	pH	5.7	pH
GC-AP-MW-40H	1/15/2019 10:16	Temperature	18.41	C
GC-AP-MW-40H	1/15/2019 10:16	Turbidity	6.99	NTU
GC-AP-MW-40H	1/15/2019 10:21	Conductivity	584.5	uS/cm
GC-AP-MW-40H	1/15/2019 10:21	DO	0.12	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	1/15/2019 10:21	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:21	Oxidation Reduction Potention	68	mv
GC-AP-MW-40H	1/15/2019 10:21	pH	5.69	pH
GC-AP-MW-40H	1/15/2019 10:21	Temperature	18.44	C
GC-AP-MW-40H	1/15/2019 10:21	Turbidity	5.25	NTU
GC-AP-MW-40H	1/15/2019 10:26	Conductivity	581.5	uS/cm
GC-AP-MW-40H	1/15/2019 10:26	DO	0.12	mg/L
GC-AP-MW-40H	1/15/2019 10:26	Depth to Water Detail	8.98	ft
GC-AP-MW-40H	1/15/2019 10:26	Oxidation Reduction Potention	67.9	mv
GC-AP-MW-40H	1/15/2019 10:26	pH	5.7	pH
GC-AP-MW-40H	1/15/2019 10:26	Temperature	18.49	C
GC-AP-MW-40H	1/15/2019 10:26	Turbidity	4.18	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	1/15/2019 14:55	Conductivity	765.1	uS/cm
GC-AP-MW-41H	1/15/2019 14:55	DO	0.28	mg/L
GC-AP-MW-41H	1/15/2019 14:55	Depth to Water Detail	8.65	ft
GC-AP-MW-41H	1/15/2019 14:55	Oxidation Reduction Potention	-66.4	mv
GC-AP-MW-41H	1/15/2019 14:55	pH	6.72	pH
GC-AP-MW-41H	1/15/2019 14:55	Temperature	19.48	C
GC-AP-MW-41H	1/15/2019 14:55	Turbidity	20.1	NTU
GC-AP-MW-41H	1/15/2019 15:00	Conductivity	753.4	uS/cm
GC-AP-MW-41H	1/15/2019 15:00	DO	0.22	mg/L
GC-AP-MW-41H	1/15/2019 15:00	Depth to Water Detail	8.65	ft
GC-AP-MW-41H	1/15/2019 15:00	Oxidation Reduction Potention	-62.9	mv
GC-AP-MW-41H	1/15/2019 15:00	pH	6.72	pH
GC-AP-MW-41H	1/15/2019 15:00	Temperature	19.54	C
GC-AP-MW-41H	1/15/2019 15:00	Turbidity	9.67	NTU
GC-AP-MW-41H	1/15/2019 15:05	Conductivity	734.9	uS/cm
GC-AP-MW-41H	1/15/2019 15:05	DO	0.19	mg/L
GC-AP-MW-41H	1/15/2019 15:05	Depth to Water Detail	8.65	ft
GC-AP-MW-41H	1/15/2019 15:05	Oxidation Reduction Potention	-60	mv
GC-AP-MW-41H	1/15/2019 15:05	pH	6.72	pH
GC-AP-MW-41H	1/15/2019 15:05	Temperature	19.64	C
GC-AP-MW-41H	1/15/2019 15:05	Turbidity	5.42	NTU
GC-AP-MW-41H	1/15/2019 15:10	Conductivity	721.4	uS/cm
GC-AP-MW-41H	1/15/2019 15:10	DO	0.18	mg/L
GC-AP-MW-41H	1/15/2019 15:10	Depth to Water Detail	8.65	ft
GC-AP-MW-41H	1/15/2019 15:10	Oxidation Reduction Potention	-56.3	mv
GC-AP-MW-41H	1/15/2019 15:10	pH	6.71	pH
GC-AP-MW-41H	1/15/2019 15:10	Temperature	19.61	C
GC-AP-MW-41H	1/15/2019 15:10	Turbidity	4.97	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	1/15/2019 16:06	Conductivity	639.2	uS/cm
GC-AP-MW-42H	1/15/2019 16:06	DO	0.32	mg/L
GC-AP-MW-42H	1/15/2019 16:06	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:06	Oxidation Reduction Potention	8.8	mv
GC-AP-MW-42H	1/15/2019 16:06	pH	6.38	pH
GC-AP-MW-42H	1/15/2019 16:06	Temperature	18.48	C
GC-AP-MW-42H	1/15/2019 16:06	Turbidity	45	NTU
GC-AP-MW-42H	1/15/2019 16:11	Conductivity	639.1	uS/cm
GC-AP-MW-42H	1/15/2019 16:11	DO	0.24	mg/L
GC-AP-MW-42H	1/15/2019 16:11	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:11	Oxidation Reduction Potention	-2.2	mv
GC-AP-MW-42H	1/15/2019 16:11	pH	6.39	pH
GC-AP-MW-42H	1/15/2019 16:11	Temperature	18.59	C
GC-AP-MW-42H	1/15/2019 16:11	Turbidity	28.6	NTU
GC-AP-MW-42H	1/15/2019 16:16	Conductivity	625.6	uS/cm
GC-AP-MW-42H	1/15/2019 16:16	DO	0.22	mg/L
GC-AP-MW-42H	1/15/2019 16:16	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:16	Oxidation Reduction Potention	0	mv
GC-AP-MW-42H	1/15/2019 16:16	pH	6.37	pH
GC-AP-MW-42H	1/15/2019 16:16	Temperature	18.57	C
GC-AP-MW-42H	1/15/2019 16:16	Turbidity	13.5	NTU
GC-AP-MW-42H	1/15/2019 16:21	Conductivity	612.2	uS/cm
GC-AP-MW-42H	1/15/2019 16:21	DO	0.21	mg/L
GC-AP-MW-42H	1/15/2019 16:21	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:21	Oxidation Reduction Potention	-0.3	mv
GC-AP-MW-42H	1/15/2019 16:21	pH	6.34	pH
GC-AP-MW-42H	1/15/2019 16:21	Temperature	18.59	C
GC-AP-MW-42H	1/15/2019 16:21	Turbidity	9.3	NTU
GC-AP-MW-42H	1/15/2019 16:26	Conductivity	598.1	uS/cm
GC-AP-MW-42H	1/15/2019 16:26	DO	0.19	mg/L
GC-AP-MW-42H	1/15/2019 16:26	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:26	Oxidation Reduction Potention	1	mv
GC-AP-MW-42H	1/15/2019 16:26	pH	6.32	pH
GC-AP-MW-42H	1/15/2019 16:26	Temperature	18.59	C
GC-AP-MW-42H	1/15/2019 16:26	Turbidity	7.51	NTU
GC-AP-MW-42H	1/15/2019 16:31	Conductivity	596.2	uS/cm
GC-AP-MW-42H	1/15/2019 16:31	DO	0.17	mg/L
GC-AP-MW-42H	1/15/2019 16:31	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:31	Oxidation Reduction Potention	2.5	mv
GC-AP-MW-42H	1/15/2019 16:31	pH	6.31	pH
GC-AP-MW-42H	1/15/2019 16:31	Temperature	18.63	C
GC-AP-MW-42H	1/15/2019 16:31	Turbidity	8.88	NTU
GC-AP-MW-42H	1/15/2019 16:36	Conductivity	596.3	uS/cm
GC-AP-MW-42H	1/15/2019 16:36	DO	0.17	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	1/15/2019 16:36	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:36	Oxidation Reduction Potention	2	mv
GC-AP-MW-42H	1/15/2019 16:36	pH	6.31	pH
GC-AP-MW-42H	1/15/2019 16:36	Temperature	18.63	C
GC-AP-MW-42H	1/15/2019 16:36	Turbidity	11.9	NTU
GC-AP-MW-42H	1/15/2019 16:41	Conductivity	586.7	uS/cm
GC-AP-MW-42H	1/15/2019 16:41	DO	0.16	mg/L
GC-AP-MW-42H	1/15/2019 16:41	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:41	Oxidation Reduction Potention	3	mv
GC-AP-MW-42H	1/15/2019 16:41	pH	6.3	pH
GC-AP-MW-42H	1/15/2019 16:41	Temperature	18.65	C
GC-AP-MW-42H	1/15/2019 16:41	Turbidity	11.6	NTU
GC-AP-MW-42H	1/15/2019 16:46	Conductivity	580	uS/cm
GC-AP-MW-42H	1/15/2019 16:46	DO	0.15	mg/L
GC-AP-MW-42H	1/15/2019 16:46	Depth to Water Detail	4.57	ft
GC-AP-MW-42H	1/15/2019 16:46	Oxidation Reduction Potention	3.1	mv
GC-AP-MW-42H	1/15/2019 16:46	pH	6.29	pH
GC-AP-MW-42H	1/15/2019 16:46	Temperature	18.63	C
GC-AP-MW-42H	1/15/2019 16:46	Turbidity	9.44	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	1/16/2019 10:12	Conductivity	602.1	uS/cm
GC-AP-MW-43H	1/16/2019 10:12	DO	0.25	mg/L
GC-AP-MW-43H	1/16/2019 10:12	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:12	Oxidation Reduction Potention	-10.6	mv
GC-AP-MW-43H	1/16/2019 10:12	pH	6.46	pH
GC-AP-MW-43H	1/16/2019 10:12	Temperature	17.68	C
GC-AP-MW-43H	1/16/2019 10:12	Turbidity	44	NTU
GC-AP-MW-43H	1/16/2019 10:17	Conductivity	600.7	uS/cm
GC-AP-MW-43H	1/16/2019 10:17	DO	0.2	mg/L
GC-AP-MW-43H	1/16/2019 10:17	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:17	Oxidation Reduction Potention	-9.6	mv
GC-AP-MW-43H	1/16/2019 10:17	pH	6.46	pH
GC-AP-MW-43H	1/16/2019 10:17	Temperature	17.91	C
GC-AP-MW-43H	1/16/2019 10:17	Turbidity	34.9	NTU
GC-AP-MW-43H	1/16/2019 10:22	Conductivity	600.8	uS/cm
GC-AP-MW-43H	1/16/2019 10:22	DO	0.18	mg/L
GC-AP-MW-43H	1/16/2019 10:22	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:22	Oxidation Reduction Potention	-8.8	mv
GC-AP-MW-43H	1/16/2019 10:22	pH	6.46	pH
GC-AP-MW-43H	1/16/2019 10:22	Temperature	18	C
GC-AP-MW-43H	1/16/2019 10:22	Turbidity	19.5	NTU
GC-AP-MW-43H	1/16/2019 10:27	Conductivity	600.3	uS/cm
GC-AP-MW-43H	1/16/2019 10:27	DO	0.14	mg/L
GC-AP-MW-43H	1/16/2019 10:27	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:27	Oxidation Reduction Potention	-8.4	mv
GC-AP-MW-43H	1/16/2019 10:27	pH	6.46	pH
GC-AP-MW-43H	1/16/2019 10:27	Temperature	18.19	C
GC-AP-MW-43H	1/16/2019 10:27	Turbidity	14.1	NTU
GC-AP-MW-43H	1/16/2019 10:32	Conductivity	596.2	uS/cm
GC-AP-MW-43H	1/16/2019 10:32	DO	0.12	mg/L
GC-AP-MW-43H	1/16/2019 10:32	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:32	Oxidation Reduction Potention	-7.2	mv
GC-AP-MW-43H	1/16/2019 10:32	pH	6.46	pH
GC-AP-MW-43H	1/16/2019 10:32	Temperature	18.46	C
GC-AP-MW-43H	1/16/2019 10:32	Turbidity	9.14	NTU
GC-AP-MW-43H	1/16/2019 10:37	Conductivity	597.2	uS/cm
GC-AP-MW-43H	1/16/2019 10:37	DO	0.12	mg/L
GC-AP-MW-43H	1/16/2019 10:37	Depth to Water Detail	4	ft
GC-AP-MW-43H	1/16/2019 10:37	Oxidation Reduction Potention	-6.1	mv
GC-AP-MW-43H	1/16/2019 10:37	pH	6.48	pH
GC-AP-MW-43H	1/16/2019 10:37	Temperature	18.5	C
GC-AP-MW-43H	1/16/2019 10:37	Turbidity	4.66	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	1/16/2019 13:34	Conductivity	986.1	uS/cm
GC-AP-MW-44H	1/16/2019 13:34	DO	0.18	mg/L
GC-AP-MW-44H	1/16/2019 13:34	Depth to Water Detail	5.32	ft
GC-AP-MW-44H	1/16/2019 13:34	Oxidation Reduction Potention	23.6	mv
GC-AP-MW-44H	1/16/2019 13:34	pH	6.41	pH
GC-AP-MW-44H	1/16/2019 13:34	Temperature	17.77	C
GC-AP-MW-44H	1/16/2019 13:34	Turbidity	20	NTU
GC-AP-MW-44H	1/16/2019 13:39	Conductivity	981.1	uS/cm
GC-AP-MW-44H	1/16/2019 13:39	DO	0.15	mg/L
GC-AP-MW-44H	1/16/2019 13:39	Depth to Water Detail	5.32	ft
GC-AP-MW-44H	1/16/2019 13:39	Oxidation Reduction Potention	25.9	mv
GC-AP-MW-44H	1/16/2019 13:39	pH	6.4	pH
GC-AP-MW-44H	1/16/2019 13:39	Temperature	17.74	C
GC-AP-MW-44H	1/16/2019 13:39	Turbidity	12.5	NTU
GC-AP-MW-44H	1/16/2019 13:44	Conductivity	980.4	uS/cm
GC-AP-MW-44H	1/16/2019 13:44	DO	0.14	mg/L
GC-AP-MW-44H	1/16/2019 13:44	Depth to Water Detail	5.32	ft
GC-AP-MW-44H	1/16/2019 13:44	Oxidation Reduction Potention	28.9	mv
GC-AP-MW-44H	1/16/2019 13:44	pH	6.4	pH
GC-AP-MW-44H	1/16/2019 13:44	Temperature	17.81	C
GC-AP-MW-44H	1/16/2019 13:44	Turbidity	6.17	NTU
GC-AP-MW-44H	1/16/2019 13:49	Conductivity	978.4	uS/cm
GC-AP-MW-44H	1/16/2019 13:49	DO	0.12	mg/L
GC-AP-MW-44H	1/16/2019 13:49	Depth to Water Detail	5.32	ft
GC-AP-MW-44H	1/16/2019 13:49	Oxidation Reduction Potention	30	mv
GC-AP-MW-44H	1/16/2019 13:49	pH	6.4	pH
GC-AP-MW-44H	1/16/2019 13:49	Temperature	17.83	C
GC-AP-MW-44H	1/16/2019 13:49	Turbidity	5	NTU
GC-AP-MW-44H	1/16/2019 13:54	Conductivity	976	uS/cm
GC-AP-MW-44H	1/16/2019 13:54	DO	0.11	mg/L
GC-AP-MW-44H	1/16/2019 13:54	Depth to Water Detail	5.32	ft
GC-AP-MW-44H	1/16/2019 13:54	Oxidation Reduction Potention	30.2	mv
GC-AP-MW-44H	1/16/2019 13:54	pH	6.39	pH
GC-AP-MW-44H	1/16/2019 13:54	Temperature	17.81	C
GC-AP-MW-44H	1/16/2019 13:54	Turbidity	3.96	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	1/30/2019 11:26	Conductivity	272.8	uS/cm
GC-AP-MW-36H	1/30/2019 11:26	DO	1.58	mg/L
GC-AP-MW-36H	1/30/2019 11:26	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:26	Oxidation Reduction Potention	74.5	mv
GC-AP-MW-36H	1/30/2019 11:26	pH	8.12	pH
GC-AP-MW-36H	1/30/2019 11:26	Temperature	19.88	C
GC-AP-MW-36H	1/30/2019 11:26	Turbidity	32.8	NTU
GC-AP-MW-36H	1/30/2019 11:31	Conductivity	272.1	uS/cm
GC-AP-MW-36H	1/30/2019 11:31	DO	1.33	mg/L
GC-AP-MW-36H	1/30/2019 11:31	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:31	Oxidation Reduction Potention	68.4	mv
GC-AP-MW-36H	1/30/2019 11:31	pH	8.08	pH
GC-AP-MW-36H	1/30/2019 11:31	Temperature	20.15	C
GC-AP-MW-36H	1/30/2019 11:31	Turbidity	13	NTU
GC-AP-MW-36H	1/30/2019 11:36	Conductivity	271.2	uS/cm
GC-AP-MW-36H	1/30/2019 11:36	DO	1.15	mg/L
GC-AP-MW-36H	1/30/2019 11:36	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:36	Oxidation Reduction Potention	62.6	mv
GC-AP-MW-36H	1/30/2019 11:36	pH	8.12	pH
GC-AP-MW-36H	1/30/2019 11:36	Temperature	20.66	C
GC-AP-MW-36H	1/30/2019 11:36	Turbidity	12.4	NTU
GC-AP-MW-36H	1/30/2019 11:41	Conductivity	269.6	uS/cm
GC-AP-MW-36H	1/30/2019 11:41	DO	1.05	mg/L
GC-AP-MW-36H	1/30/2019 11:41	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:41	Oxidation Reduction Potention	61.5	mv
GC-AP-MW-36H	1/30/2019 11:41	pH	8.18	pH
GC-AP-MW-36H	1/30/2019 11:41	Temperature	20.82	C
GC-AP-MW-36H	1/30/2019 11:41	Turbidity	11.6	NTU
GC-AP-MW-36H	1/30/2019 11:46	Conductivity	271.4	uS/cm
GC-AP-MW-36H	1/30/2019 11:46	DO	0.98	mg/L
GC-AP-MW-36H	1/30/2019 11:46	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:46	Oxidation Reduction Potention	60.9	mv
GC-AP-MW-36H	1/30/2019 11:46	pH	8.11	pH
GC-AP-MW-36H	1/30/2019 11:46	Temperature	20.77	C
GC-AP-MW-36H	1/30/2019 11:46	Turbidity	11.1	NTU
GC-AP-MW-36H	1/30/2019 11:51	Conductivity	271.6	uS/cm
GC-AP-MW-36H	1/30/2019 11:51	DO	0.93	mg/L
GC-AP-MW-36H	1/30/2019 11:51	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:51	Oxidation Reduction Potention	60.3	mv
GC-AP-MW-36H	1/30/2019 11:51	pH	8.23	pH
GC-AP-MW-36H	1/30/2019 11:51	Temperature	21.2	C
GC-AP-MW-36H	1/30/2019 11:51	Turbidity	11.13	NTU
GC-AP-MW-36H	1/30/2019 11:56	Conductivity	270.8	uS/cm
GC-AP-MW-36H	1/30/2019 11:56	DO	0.9	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	1/30/2019 11:56	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 11:56	Oxidation Reduction Potention	62.2	mv
GC-AP-MW-36H	1/30/2019 11:56	pH	8.19	pH
GC-AP-MW-36H	1/30/2019 11:56	Temperature	21.17	C
GC-AP-MW-36H	1/30/2019 11:56	Turbidity	12.1	NTU
GC-AP-MW-36H	1/30/2019 12:01	Conductivity	271.5	uS/cm
GC-AP-MW-36H	1/30/2019 12:01	DO	0.89	mg/L
GC-AP-MW-36H	1/30/2019 12:01	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:01	Oxidation Reduction Potention	62.7	mv
GC-AP-MW-36H	1/30/2019 12:01	pH	8.13	pH
GC-AP-MW-36H	1/30/2019 12:01	Temperature	21.26	C
GC-AP-MW-36H	1/30/2019 12:01	Turbidity	11.1	NTU
GC-AP-MW-36H	1/30/2019 12:06	Conductivity	269.4	uS/cm
GC-AP-MW-36H	1/30/2019 12:06	DO	0.85	mg/L
GC-AP-MW-36H	1/30/2019 12:06	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:06	Oxidation Reduction Potention	65	mv
GC-AP-MW-36H	1/30/2019 12:06	pH	7.99	pH
GC-AP-MW-36H	1/30/2019 12:06	Temperature	21.08	C
GC-AP-MW-36H	1/30/2019 12:06	Turbidity	10.66	NTU
GC-AP-MW-36H	1/30/2019 12:11	Conductivity	270.1	uS/cm
GC-AP-MW-36H	1/30/2019 12:11	DO	0.83	mg/L
GC-AP-MW-36H	1/30/2019 12:11	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:11	Oxidation Reduction Potention	67.1	mv
GC-AP-MW-36H	1/30/2019 12:11	pH	8.02	pH
GC-AP-MW-36H	1/30/2019 12:11	Temperature	21.18	C
GC-AP-MW-36H	1/30/2019 12:11	Turbidity	11.8	NTU
GC-AP-MW-36H	1/30/2019 12:16	Conductivity	270.5	uS/cm
GC-AP-MW-36H	1/30/2019 12:16	DO	0.8	mg/L
GC-AP-MW-36H	1/30/2019 12:16	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:16	Oxidation Reduction Potention	60.6	mv
GC-AP-MW-36H	1/30/2019 12:16	pH	8.06	pH
GC-AP-MW-36H	1/30/2019 12:16	Temperature	21.08	C
GC-AP-MW-36H	1/30/2019 12:16	Turbidity	10.65	NTU
GC-AP-MW-36H	1/30/2019 12:21	Conductivity	271.3	uS/cm
GC-AP-MW-36H	1/30/2019 12:21	DO	0.79	mg/L
GC-AP-MW-36H	1/30/2019 12:21	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:21	Oxidation Reduction Potention	61.8	mv
GC-AP-MW-36H	1/30/2019 12:21	pH	7.94	pH
GC-AP-MW-36H	1/30/2019 12:21	Temperature	21.35	C
GC-AP-MW-36H	1/30/2019 12:21	Turbidity	11.2	NTU
GC-AP-MW-36H	1/30/2019 12:26	Conductivity	270.3	uS/cm
GC-AP-MW-36H	1/30/2019 12:26	DO	0.79	mg/L
GC-AP-MW-36H	1/30/2019 12:26	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:26	Oxidation Reduction Potention	61.3	mv

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	1/30/2019 12:26	pH	7.91	pH
GC-AP-MW-36H	1/30/2019 12:26	Temperature	21.36	C
GC-AP-MW-36H	1/30/2019 12:26	Turbidity	11.12	NTU
GC-AP-MW-36H	1/30/2019 12:31	Conductivity	268.4	uS/cm
GC-AP-MW-36H	1/30/2019 12:31	DO	0.78	mg/L
GC-AP-MW-36H	1/30/2019 12:31	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:31	Oxidation Reduction Potention	61.7	mv
GC-AP-MW-36H	1/30/2019 12:31	pH	7.85	pH
GC-AP-MW-36H	1/30/2019 12:31	Temperature	21.39	C
GC-AP-MW-36H	1/30/2019 12:31	Turbidity	10.04	NTU
GC-AP-MW-36H	1/30/2019 12:36	Conductivity	269	uS/cm
GC-AP-MW-36H	1/30/2019 12:36	DO	0.78	mg/L
GC-AP-MW-36H	1/30/2019 12:36	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:36	Oxidation Reduction Potention	61.4	mv
GC-AP-MW-36H	1/30/2019 12:36	pH	7.84	pH
GC-AP-MW-36H	1/30/2019 12:36	Temperature	21.3	C
GC-AP-MW-36H	1/30/2019 12:36	Turbidity	10.78	NTU
GC-AP-MW-36H	1/30/2019 12:41	Conductivity	269.8	uS/cm
GC-AP-MW-36H	1/30/2019 12:41	DO	0.78	mg/L
GC-AP-MW-36H	1/30/2019 12:41	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:41	Oxidation Reduction Potention	61.1	mv
GC-AP-MW-36H	1/30/2019 12:41	pH	7.86	pH
GC-AP-MW-36H	1/30/2019 12:41	Temperature	21.11	C
GC-AP-MW-36H	1/30/2019 12:41	Turbidity	10.66	NTU
GC-AP-MW-36H	1/30/2019 12:46	Conductivity	270	uS/cm
GC-AP-MW-36H	1/30/2019 12:46	DO	0.77	mg/L
GC-AP-MW-36H	1/30/2019 12:46	Depth to Water Detail	23.6	ft
GC-AP-MW-36H	1/30/2019 12:46	Oxidation Reduction Potention	58.7	mv
GC-AP-MW-36H	1/30/2019 12:46	pH	7.87	pH
GC-AP-MW-36H	1/30/2019 12:46	Temperature	21.08	C
GC-AP-MW-36H	1/30/2019 12:46	Turbidity	9.27	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-4	3/27/2019 15:23	Conductivity	496.2	uS/cm
GC-AP-MW-4	3/27/2019 15:23	DO	0.52	mg/L
GC-AP-MW-4	3/27/2019 15:23	Depth to Water Detail	8.94	ft
GC-AP-MW-4	3/27/2019 15:23	Oxidation Reduction Potention	143.3	mv
GC-AP-MW-4	3/27/2019 15:23	pH	5.54	pH
GC-AP-MW-4	3/27/2019 15:23	Temperature	21.79	C
GC-AP-MW-4	3/27/2019 15:23	Turbidity	8.82	NTU
GC-AP-MW-4	3/27/2019 15:28	Conductivity	602	uS/cm
GC-AP-MW-4	3/27/2019 15:28	DO	0.45	mg/L
GC-AP-MW-4	3/27/2019 15:28	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:28	Oxidation Reduction Potention	114.9	mv
GC-AP-MW-4	3/27/2019 15:28	pH	5.67	pH
GC-AP-MW-4	3/27/2019 15:28	Temperature	21.77	C
GC-AP-MW-4	3/27/2019 15:28	Turbidity	13.2	NTU
GC-AP-MW-4	3/27/2019 15:33	Conductivity	709.2	uS/cm
GC-AP-MW-4	3/27/2019 15:33	DO	0.37	mg/L
GC-AP-MW-4	3/27/2019 15:33	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:33	Oxidation Reduction Potention	97.7	mv
GC-AP-MW-4	3/27/2019 15:33	pH	5.76	pH
GC-AP-MW-4	3/27/2019 15:33	Temperature	21.95	C
GC-AP-MW-4	3/27/2019 15:33	Turbidity	10.19	NTU
GC-AP-MW-4	3/27/2019 15:38	Conductivity	805.1	uS/cm
GC-AP-MW-4	3/27/2019 15:38	DO	0.32	mg/L
GC-AP-MW-4	3/27/2019 15:38	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:38	Oxidation Reduction Potention	84.3	mv
GC-AP-MW-4	3/27/2019 15:38	pH	5.83	pH
GC-AP-MW-4	3/27/2019 15:38	Temperature	21.87	C
GC-AP-MW-4	3/27/2019 15:38	Turbidity	6.64	NTU
GC-AP-MW-4	3/27/2019 15:43	Conductivity	893.6	uS/cm
GC-AP-MW-4	3/27/2019 15:43	DO	0.28	mg/L
GC-AP-MW-4	3/27/2019 15:43	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:43	Oxidation Reduction Potention	72.2	mv
GC-AP-MW-4	3/27/2019 15:43	pH	5.9	pH
GC-AP-MW-4	3/27/2019 15:43	Temperature	21.77	C
GC-AP-MW-4	3/27/2019 15:43	Turbidity	5.29	NTU
GC-AP-MW-4	3/27/2019 15:48	Conductivity	954.9	uS/cm
GC-AP-MW-4	3/27/2019 15:48	DO	0.25	mg/L
GC-AP-MW-4	3/27/2019 15:48	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:48	Oxidation Reduction Potention	63.9	mv
GC-AP-MW-4	3/27/2019 15:48	pH	5.94	pH
GC-AP-MW-4	3/27/2019 15:48	Temperature	21.82	C
GC-AP-MW-4	3/27/2019 15:48	Turbidity	3.53	NTU
GC-AP-MW-4	3/27/2019 15:53	Conductivity	1000.5	uS/cm
GC-AP-MW-4	3/27/2019 15:53	DO	0.24	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-4	3/27/2019 15:53	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:53	Oxidation Reduction Potention	58	mv
GC-AP-MW-4	3/27/2019 15:53	pH	5.98	pH
GC-AP-MW-4	3/27/2019 15:53	Temperature	21.76	C
GC-AP-MW-4	3/27/2019 15:53	Turbidity	2.82	NTU
GC-AP-MW-4	3/27/2019 15:58	Conductivity	1042.8	uS/cm
GC-AP-MW-4	3/27/2019 15:58	DO	0.23	mg/L
GC-AP-MW-4	3/27/2019 15:58	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 15:58	Oxidation Reduction Potention	51.2	mv
GC-AP-MW-4	3/27/2019 15:58	pH	6.02	pH
GC-AP-MW-4	3/27/2019 15:58	Temperature	21.71	C
GC-AP-MW-4	3/27/2019 15:58	Turbidity	2.54	NTU
GC-AP-MW-4	3/27/2019 16:03	Conductivity	1072.3	uS/cm
GC-AP-MW-4	3/27/2019 16:03	DO	0.22	mg/L
GC-AP-MW-4	3/27/2019 16:03	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 16:03	Oxidation Reduction Potention	47.8	mv
GC-AP-MW-4	3/27/2019 16:03	pH	6.04	pH
GC-AP-MW-4	3/27/2019 16:03	Temperature	21.78	C
GC-AP-MW-4	3/27/2019 16:03	Turbidity	1.86	NTU
GC-AP-MW-4	3/27/2019 16:08	Conductivity	1097.8	uS/cm
GC-AP-MW-4	3/27/2019 16:08	DO	0.21	mg/L
GC-AP-MW-4	3/27/2019 16:08	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 16:08	Oxidation Reduction Potention	44.7	mv
GC-AP-MW-4	3/27/2019 16:08	pH	6.06	pH
GC-AP-MW-4	3/27/2019 16:08	Temperature	21.73	C
GC-AP-MW-4	3/27/2019 16:08	Turbidity	1.6	NTU
GC-AP-MW-4	3/27/2019 16:13	Conductivity	1120.4	uS/cm
GC-AP-MW-4	3/27/2019 16:13	DO	0.2	mg/L
GC-AP-MW-4	3/27/2019 16:13	Depth to Water Detail	8.96	ft
GC-AP-MW-4	3/27/2019 16:13	Oxidation Reduction Potention	42.2	mv
GC-AP-MW-4	3/27/2019 16:13	pH	6.07	pH
GC-AP-MW-4	3/27/2019 16:13	Temperature	21.7	C
GC-AP-MW-4	3/27/2019 16:13	Turbidity	1.53	NTU

1st
Semi-Annual
Monitoring Event

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative

Greene County Ash Pond

2019 Compliance Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Suspected iron bacteria present in wells MW-14 and MW-16. Heavy recent flooding in the area left visible water marks on the bollards and well casing for MW-14 and it is possible that the well was submerged under flood water for a period of time.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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Analytical Report

Alabama Power

Lab & Field SERVICES

Sample Group : WMWGREAP_1212

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks, Greg Dyer, & Corey Ladner

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

The following data has been reviewed and approved by:

Quality Control: Laura Midkiff
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2019.05.31 10:23:32 -05'00'

Supervision: T. Durant Maske
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2019.05.31 13:54:30 -05'00'

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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Case Narrative

Alabama Power

Lab & Field SERVICES

Metals ICP

Greene County Ash Pond

WMWGREAP_1212

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ08030	643925	WMWGREAP_1212
AZ08031	643925	WMWGREAP_1212
AZ08032	643925	WMWGREAP_1212
AZ08033	643925	WMWGREAP_1212
AZ08034	643925	WMWGREAP_1212
AZ08035	643925	WMWGREAP_1212
AZ08036	643925	WMWGREAP_1212
AZ08037	643925	WMWGREAP_1212
AZ08038	643925	WMWGREAP_1212
AZ08039	643925	WMWGREAP_1212
AZ08040	643926	WMWGREAP_1212
AZ08041	643926	WMWGREAP_1212
AZ08042	643926	WMWGREAP_1212
AZ08043	643926	WMWGREAP_1212
AZ08044	643926	WMWGREAP_1212
AZ08045	643926	WMWGREAP_1212
AZ08046	643926	WMWGREAP_1212
AZ08047	643926	WMWGREAP_1212
AZ08048	643926	WMWGREAP_1212
AZ08049	643926	WMWGREAP_1212
AZ08050	643927	WMWGREAP_1212
AZ08051	643927	WMWGREAP_1212
AZ08052	643927	WMWGREAP_1212
AZ08053	643927	WMWGREAP_1212
AZ08054	643927	WMWGREAP_1212
AZ08055	643927	WMWGREAP_1212
AZ08056	643927	WMWGREAP_1212
AZ08057	643927	WMWGREAP_1212
AZ08058	643927	WMWGREAP_1212

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AZ08059	643927	WMWGREAP_1212
AZ08060	643928	WMWGREAP_1212
AZ08061	643928	WMWGREAP_1212
AZ08062	643928	WMWGREAP_1212
AZ08063	643928	WMWGREAP_1212
AZ08064	643928	WMWGREAP_1212
AZ08065	643928	WMWGREAP_1212

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

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Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - AZ08049 Calcium MS/MSD spike levels were less than 30% of sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. All samples were analyzed at a x2.03 dilution to compensate for potential matrix effects. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ08044	Calcium	x10.15
AZ08045	Calcium	x10.15
AZ08047	Calcium	x10.15
AZ08049	Calcium	x10.15
AZ08050	Calcium	x10.15
AZ08051	Calcium	x10.15
AZ08052	Calcium	x10.15
AZ08053	Calcium	x10.15
AZ08060	Calcium	x10.15

8. The raw data results are shown with dilution factors included.

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Case Narrative

Alabama Power

Lab & Field SERVICES

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1212

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ08030	643221	WMWGREAP_1212
AZ08031	643221	WMWGREAP_1212
AZ08032	643221	WMWGREAP_1212
AZ08033	643221	WMWGREAP_1212
AZ08034	643221	WMWGREAP_1212
AZ08035	643221	WMWGREAP_1212
AZ08036	643221	WMWGREAP_1212
AZ08037	643221	WMWGREAP_1212
AZ08038	643221	WMWGREAP_1212
AZ08039	643221	WMWGREAP_1212
AZ08040	643222	WMWGREAP_1212
AZ08041	643222	WMWGREAP_1212
AZ08042	643222	WMWGREAP_1212
AZ08043	643222	WMWGREAP_1212
AZ08044	643222	WMWGREAP_1212
AZ08045	643222	WMWGREAP_1212
AZ08046	643222	WMWGREAP_1212
AZ08047	643222	WMWGREAP_1212
AZ08048	643222	WMWGREAP_1212
AZ08049	643222	WMWGREAP_1212
AZ08050	643223	WMWGREAP_1212
AZ08051	643223	WMWGREAP_1212
AZ08052	643223	WMWGREAP_1212
AZ08053	643223	WMWGREAP_1212
AZ08054	643223	WMWGREAP_1212
AZ08055	643223	WMWGREAP_1212
AZ08056	643223	WMWGREAP_1212
AZ08057	643223	WMWGREAP_1212
AZ08058	643223	WMWGREAP_1212

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AZ08059	643223	WMWGREAP_1212
AZ08060	643224	WMWGREAP_1212
AZ08061	643224	WMWGREAP_1212
AZ08062	643224	WMWGREAP_1212
AZ08063	643224	WMWGREAP_1212
AZ08064	643224	WMWGREAP_1212
AZ08065	643224	WMWGREAP_1212

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met; except for AZ08051 which was reanalyzed on 4/2/19 and reported with passing ISTD criteria.

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Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. All samples were analyzed at a x5.075 dilution to compensate for potential matrix effects.
8. The raw data results are shown with dilution factors included.

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Case Narrative

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Mercury

Greene County Ash Pond

WMWGREAP_1212

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ08030	643439	WMWGREAP_1212
AZ08031	643439	WMWGREAP_1212
AZ08032	643439	WMWGREAP_1212
AZ08033	643439	WMWGREAP_1212
AZ08034	643439	WMWGREAP_1212
AZ08035	643439	WMWGREAP_1212
AZ08036	643439	WMWGREAP_1212
AZ08037	643439	WMWGREAP_1212
AZ08038	643439	WMWGREAP_1212
AZ08039	643439	WMWGREAP_1212
AZ08040	643440	WMWGREAP_1212
AZ08041	643440	WMWGREAP_1212
AZ08042	643440	WMWGREAP_1212
AZ08043	643440	WMWGREAP_1212
AZ08044	643440	WMWGREAP_1212
AZ08045	643440	WMWGREAP_1212
AZ08046	643440	WMWGREAP_1212
AZ08047	643440	WMWGREAP_1212
AZ08048	643440	WMWGREAP_1212
AZ08049	643440	WMWGREAP_1212
AZ08050	643443	WMWGREAP_1212
AZ08051	643443	WMWGREAP_1212
AZ08052	643443	WMWGREAP_1212
AZ08053	643443	WMWGREAP_1212
AZ08054	643443	WMWGREAP_1212
AZ08055	643443	WMWGREAP_1212
AZ08056	643443	WMWGREAP_1212
AZ08057	643443	WMWGREAP_1212
AZ08058	643443	WMWGREAP_1212

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AZ08059	643443	WMWGREAP_1212
AZ08060	643444	WMWGREAP_1212
AZ08061	643444	WMWGREAP_1212
AZ08062	643444	WMWGREAP_1212
AZ08063	643444	WMWGREAP_1212
AZ08064	643444	WMWGREAP_1212
AZ08065	643444	WMWGREAP_1212

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.
8. The raw data results are shown with dilution factors included.

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Case Narrative

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Greene County Ash Pond

WMWGREAP_1212

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ08030	642637	WMWGREAP_1212
AZ08031	642637	WMWGREAP_1212
AZ08032	642637	WMWGREAP_1212
AZ08033	642637	WMWGREAP_1212
AZ08034	642637	WMWGREAP_1212
AZ08035	642637	WMWGREAP_1212
AZ08036	642637	WMWGREAP_1212
AZ08037	642637	WMWGREAP_1212
AZ08038	642637	WMWGREAP_1212
AZ08039	642637	WMWGREAP_1212
AZ08040	642638	WMWGREAP_1212
AZ08041	642638	WMWGREAP_1212
AZ08042	642638	WMWGREAP_1212
AZ08043	642638	WMWGREAP_1212
AZ08044	642638	WMWGREAP_1212
AZ08045	642638	WMWGREAP_1212
AZ08046	642638	WMWGREAP_1212
AZ08047	642638	WMWGREAP_1212
AZ08048	642638	WMWGREAP_1212
AZ08049	642638	WMWGREAP_1212
AZ08050	642995	WMWGREAP_1212
AZ08051	642995	WMWGREAP_1212
AZ08052	642995	WMWGREAP_1212
AZ08053	642995	WMWGREAP_1212
AZ08054	642995	WMWGREAP_1212
AZ08055	642995	WMWGREAP_1212
AZ08056	642995	WMWGREAP_1212
AZ08057	642995	WMWGREAP_1212
AZ08058	642995	WMWGREAP_1212

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AZ08059	642995	WMWGREAP_1212
AZ08060	642996	WMWGREAP_1212
AZ08061	642996	WMWGREAP_1212
AZ08062	642996	WMWGREAP_1212
AZ08063	642996	WMWGREAP_1212
AZ08064	642996	WMWGREAP_1212
AZ08065	642996	WMWGREAP_1212

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - AZ08038
    - AZ08046
    - AZ08059
    - AZ08065

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Anions

Greene County Ash Pond

WMWGREAP_1212

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ08030	643070, 642763, & 643102	WMWGREAP_1212
AZ08031	643070, 642763, & 643102	WMWGREAP_1212
AZ08032	643070, 642763, & 643102	WMWGREAP_1212
AZ08033	643070, 642763, & 643102	WMWGREAP_1212
AZ08034	643070, 642763, & 643102	WMWGREAP_1212
AZ08035	643070, 642763, & 643102	WMWGREAP_1212
AZ08036	643070, 642763, & 643102	WMWGREAP_1212
AZ08037	643070, 642763, & 643102	WMWGREAP_1212
AZ08038	643070, 642763, & 643102	WMWGREAP_1212
AZ08039	643070, 642763, & 643102	WMWGREAP_1212
AZ08040	643071, 642764, & 643103	WMWGREAP_1212
AZ08041	643071, 642764, & 643103	WMWGREAP_1212
AZ08042	643071, 642764, & 643103	WMWGREAP_1212
AZ08043	643071, 642764, & 643103	WMWGREAP_1212
AZ08044	643071, 642764, & 643103	WMWGREAP_1212
AZ08045	643071, 642764, & 643103	WMWGREAP_1212
AZ08046	643071, 642764, & 643103	WMWGREAP_1212
AZ08047	643071, 642764, & 643103	WMWGREAP_1212
AZ08048	643071, 642764, & 643103	WMWGREAP_1212
AZ08049	643071, 642764, & 643103	WMWGREAP_1212
AZ08050	643072, 642765, & 643104	WMWGREAP_1212
AZ08051	643072, 642765, & 643104	WMWGREAP_1212
AZ08052	643072, 642765, & 643104	WMWGREAP_1212
AZ08053	643072, 642765, & 643104	WMWGREAP_1212
AZ08054	643072, 642765, & 643104	WMWGREAP_1212
AZ08055	643072, 642765, & 643104	WMWGREAP_1212
AZ08056	643072, 642765, & 643104	WMWGREAP_1212
AZ08057	643072, 642765, & 643104	WMWGREAP_1212
AZ08058	643072, 642765, & 643104	WMWGREAP_1212

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AZ08059	643072, 642765, & 643104	WMWGREAP_1212
AZ08060	643073, 642766, & 643105	WMWGREAP_1212
AZ08061	643073, 642766, & 643105	WMWGREAP_1212
AZ08062	643073, 642766, & 643105	WMWGREAP_1212
AZ08063	643073, 642766, & 643105	WMWGREAP_1212
AZ08064	643073, 642766, & 643105	WMWGREAP_1212
AZ08065	643073, 642766, & 643105	WMWGREAP_1212

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F C, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

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7. The following samples were diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ08037	Sulfate	x10
AZ08043	Sulfate	x 100
AZ08044	Sulfate	x 50
AZ08045	Chloride	x 2
AZ08047	Chloride	x 3
AZ08047	Sulfate	x 20
AZ08048	Chloride	x 4
AZ08049	Chloride	x 10
AZ08049	Sulfate	x 50
AZ08050	Chloride	x 3
AZ08050	Sulfate	x 10
AZ08051	Chloride	x 3
AZ08052	Sulfate	x 20
AZ08053	Sulfate	x 10
AZ08054	Sulfate	x 20
AZ08055	Sulfate	x 20
AZ08056	Sulfate	x 10
AZ08057	Sulfate	x 10
AZ08058	Sulfate	x 10
AZ08060	Sulfate	x 20
AZ08061	Sulfate	x 10
AZ08063	Sulfate	x 4
AZ08064	Sulfate	x 4

8. The raw data results are shown with dilution factors included.

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AZ08030

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0499	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		0.526	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00137	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		2.18	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		1.66	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	4.96	SU

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AZ08030

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AZ08030

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AZ08031

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.232	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		2.13	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	J	0.000582	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000975	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		30.0	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		1.20	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		10.1	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	4.92	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AZ08031

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AZ08031

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AZ08032

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.101	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		1.33	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000854	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		2.42	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	5.16	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AZ08032

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AZ08032

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AZ08033

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.104	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		1.30	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		27.3	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		2.28	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	5.16	SU

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AZ08033

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: AZ08033

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AZ08034

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0348	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5	J	0.223	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		1.07	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	J	0.594	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	4.97	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
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Reported: 5/30/2019
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Alabama Power General Test Laboratory
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Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AZ08034

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AZ08034

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Comments:

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Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AZ08035

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0419	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	J	0.000920	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		3.18	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		36.7	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		2.00	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		6.86	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	5.4	SU

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Alabama Power General Test Laboratory
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Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AZ08035

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AZ08035

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
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Reported: 5/30/2019
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AZ08036

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0295	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		31.3	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		103	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		1.23	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.123	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		12.3	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	6.46	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
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Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AZ08036

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AZ08036

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Expiration: June 30, 2019

Comments:

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Reported: 5/30/2019
Version: 2.0

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AZ08037

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0978	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		32.3	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	J	0.00208	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		174	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		6.92	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		103	mg/L
Field Measurements										
pH	SNP	3/26/2019						FA	5.32	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AZ08037

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AZ08037

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Certificate Of Analysis

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Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08038

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08038

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

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Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08038

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AZ08039

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0912	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		2.75	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		65.3	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		4.33	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		15.1	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	4.68	SU

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AZ08039

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.179	0.185	0.0948	0.085 to 0.115	88.1	70 to 130	3.40	20
AZ08039	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0985	0.0980	0.102	0.085 to 0.115	98.5	70 to 130	0.489	20
AZ08039	Mercury, Total by CVAA	mg/L	0.00000889	0.0005	0.004	0.00375	0.00366	0.00403	0.0034 to 0.0046	93.7	70 to 130	2.42	20
AZ08039	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.101	0.0981	0.105	0.085 to 0.115	101	70 to 130	2.44	20
AZ08039	Boron, Total	mg/L	0.00206	0.044	1.00	0.986	0.979	0.983	0.85 to 1.15	98.6	70 to 130	0.631	20
AZ08039	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0989	0.100	0.102	0.085 to 0.115	98.9	70 to 130	1.19	20
AZ08039	Calcium, Total	mg/L	0.0270	0.22	5.00	7.72	7.68	5.15	4.25 to 5.75	99.3	70 to 130	0.439	20
AZ08039	Lithium, Total	mg/L	-0.000190	0.022	0.20	0.205	0.205	0.203	0.17 to 0.23	103	70 to 130	0.279	20
AZ08039	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.104	0.102	0.108	0.085 to 0.115	104	70 to 130	1.53	20
AZ08039	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.103	0.103	0.104	0.085 to 0.115	103	70 to 130	0.0748	20
AZ08039	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0978	0.0981	0.103	0.085 to 0.115	97.8	70 to 130	0.298	20
AZ08039	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0988	0.0988	0.104	0.085 to 0.115	98.8	70 to 130	0.0143	20
AZ08039	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0999	0.0986	0.103	0.085 to 0.115	99.9	70 to 130	1.33	20
AZ08039	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.105	0.102	0.106	0.085 to 0.115	105	70 to 130	3.09	20
AZ08039	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.0993	0.100	0.0950	0.085 to 0.115	99.3	70 to 130	1.03	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AZ08039

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08039	Sulfate	mg/L	0.229	0.50	20.0	34.8	15.2	19.4	18 to 22	98.5	80 to 120	0.660	20
AZ08039	Chloride	mg/L	-0.00406	0.50	10.0	14.7	4.39	10.0	9 to 11	104	80 to 120	1.38	20
AZ08039	Fluoride	mg/L	-0.00193	0.05	2.50	2.08	0.0092	2.54	2.25 to 2.75	83.2	80 to 120	0.00	20
AZ08037	Solids, Dissolved	mg/L	3.00	25			169	49.0	40 to 60			1.46	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AZ08040

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0250	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		7.65	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		48.7	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		5.26	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		3.55	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	5.95	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AZ08040

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AZ08040

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AZ08041

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0134	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		11.6	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		46.7	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		3.90	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		3.24	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	6.15	SU

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AZ08041

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AZ08041

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AZ08042

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0138	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		11.7	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		56.0	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		3.86	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		3.22	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	6.15	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AZ08042

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: AZ08042

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AZ08043

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.0267	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0286	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		0.488	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		73.8	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.176	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		100		1910	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		18.0	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.192	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		100	50.00	100		1090	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	5.8	SU

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

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Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AZ08043

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AZ08043

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Calera, AL 35040
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FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AZ08044

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.0101	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0311	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		0.138	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		96.1	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0131	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		50		562	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		14.8	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	J	0.089	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		50	25.00	50		375	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	6.06	SU

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
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Alabama Power General Test Laboratory
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AZ08044

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AZ08044

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AZ08045

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.00596	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0951	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	J	0.0316	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		111	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	J	0.00463	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25		362	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		2	1.00	2		24.8	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.130	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		6.64	mg/L
Field Measurements										
pH	SNP	3/27/2019						FA	6.44	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AZ08045

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AZ08045

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

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Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08046

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

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MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08046

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08046

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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Reported: 5/30/2019
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Alabama Power General Test Laboratory
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AZ08047

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.00969	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.175	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		1.14	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		132	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0167	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.0931	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		50		586	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		3	1.50	3		25.3	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.223	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		20	10.00	20		138	mg/L
Field Measurements										
pH	AWG	3/26/2019						FA	6.47	SU

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MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AZ08047

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AZ08047

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AZ08048

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0911	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		1.81	mg/L
* Calcium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.1	0.5		72.0	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	J	0.00445	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02		0.0537	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		50		546	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		4	2.00	4		39.7	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.162	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		21.6	mg/L
Field Measurements										
pH	AWG	3/26/2019						FA	6.32	SU

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AZ08048

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AZ08048

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AZ08049

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0796	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/26/2019	EPA 200.7		2.03	0.03	0.1		0.727	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		193	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	J	0.00240	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/26/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/2/2019	SM 2540C		1		100		1100	mg/L
Filter Completion Date	CES	3/29/2019	SM 2540C		1				3/29/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		10	5.00	10		71.0	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.106	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		50	25.00	50		430	mg/L
Field Measurements										
pH	AWG	3/26/2019						FA	6.39	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: Recoveries for Calcium are out of spec. Spike amounts are less than 30% of the sample amount. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AZ08049

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Mercury, Total by CVAA	mg/L	0.00000508	0.0005	0.004	0.00400	0.00402	0.00399	0.0034 to 0.0046	100	70 to 130	0.483	20
AZ08049	Arsenic, Total	mg/L	0.00000245	0.0022	0.10	0.0990	0.100	0.103	0.085 to 0.115	99.0	70 to 130	1.49	20
AZ08049	Barium, Total	mg/L	0.0000205	0.0044	0.10	0.173	0.172	0.0948	0.085 to 0.115	93.3	70 to 130	0.745	20
AZ08049	Selenium, Total	mg/L	0.000165	0.0044	0.10	0.0973	0.0969	0.104	0.085 to 0.115	97.3	70 to 130	0.469	20
AZ08049	Beryllium, Total	mg/L	0.0000177	0.00132	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.89	20
AZ08049	Boron, Total	mg/L	0.00194	0.044	1.00	1.73	1.73	0.973	0.85 to 1.15	100	70 to 130	0.0659	20
AZ08049	Chromium, Total	mg/L	-0.000193	0.0044	0.10	0.0974	0.0995	0.103	0.085 to 0.115	97.4	70 to 130	2.15	20
AZ08049	Molybdenum, Total	mg/L	0.0000103	0.0044	0.10	0.0977	0.0992	0.102	0.085 to 0.115	97.7	70 to 130	1.55	20
AZ08049	Antimony, Total	mg/L	0.000302	0.00176	0.10	0.104	0.102	0.0950	0.085 to 0.115	104	70 to 130	2.31	20
AZ08049	Cobalt, Total	mg/L	-0.0000183	0.0044	0.10	0.102	0.104	0.104	0.085 to 0.115	99.8	70 to 130	1.66	20
AZ08049	Lead, Total	mg/L	0.00000244	0.0022	0.10	0.102	0.103	0.108	0.085 to 0.115	102	70 to 130	0.902	20
AZ08049	Thallium, Total	mg/L	-0.00000216	0.00044	0.10	0.0992	0.100	0.105	0.085 to 0.115	99.2	70 to 130	1.23	20
AZ08049	Calcium, Total	mg/L	-0.000657	0.22	5.00	196	211	5.27	4.25 to 5.75	60.0	70 to 130	7.60	20
AZ08049	Lithium, Total	mg/L	-0.0000151	0.022	0.20	0.241	0.241	0.195	0.17 to 0.23	120	70 to 130	0.0698	20
AZ08049	Cadmium, Total	mg/L	-0.00000002	0.00066	0.10	0.0973	0.0977	0.102	0.085 to 0.115	97.3	70 to 130	0.357	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: Recoveries for Calcium are out of spec. Spike amounts are less than 30% of the sample amount. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AZ08049

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08049	Solids, Dissolved	mg/L	3.00	25			1110	49.0	40 to 60			0.542	5
AZ08049	Chloride	mg/L	-0.00505	0.50	10.0	80.6	72.4	10.1	9 to 11	96.0	80 to 120	1.95	20
AZ08049	Fluoride	mg/L	-0.0348	0.05	2.50	2.58	0.127	2.53	2.25 to 2.75	99.0	80 to 120	18.0	20
AZ08049	Sulfate	mg/L	-0.232	0.50	1000	1400	436	19.3	18 to 22	97.0	80 to 120	1.39	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: Recoveries for Calcium are out of spec. Spike amounts are less than 30% of the sample amount. LBM 5/21/19

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AZ08050

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0682	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.63	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		148	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00141	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	J	0.00223	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	J	0.0192	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		50		682	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		3	1.50	3		31.9	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.253	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		120	mg/L
Field Measurements										
pH	AWG	3/26/2019						FA	6.54	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AZ08050

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AZ08050

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AZ08051

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.001	0.005		0.0477	mg/L
* Barium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.002	0.01		0.117	mg/L
* Beryllium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.63	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		91.5	mg/L
* Cadmium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.002	0.005		0.0161	mg/L
* Chromium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.378	mg/L
* Molybdenum, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	4/2/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		406	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		3	1.50	3		25.4	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.192	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		21.3	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.3	SU

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AZ08051

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AZ08051

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AZ08052

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.320	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.242	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.74	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		84.7	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000897	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0192	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.595	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0620	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		50		516	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		9.52	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.573	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		20	10.00	20		161	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.52	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AZ08052

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
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Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AZ08052

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AZ08053

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.0952	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0626	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.38	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		90.0	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0177	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.558	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	J	0.000410	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		481	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		9.27	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.316	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		123	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.34	SU

MDL's and RL's are adjusted for sample dilution, as applicable

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Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AZ08053

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AZ08053

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AZ08054

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0282	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.697	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		54.0	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0184	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.570	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		334	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		13.0	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.113	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		20	10.00	20		157	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.1	SU

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
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Comments:

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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AZ08054

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AZ08054

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
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Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15 DUP

Laboratory ID Number: AZ08055

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0285	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.699	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		53.9	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0180	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.575	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		342	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		12.8	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.119	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		20	10.00	20		158	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.1	SU

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15 DUP

Laboratory ID Number: AZ08055

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-15 DUP

Laboratory ID Number: AZ08055

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AZ08056

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	J	0.00251	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.109	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.213	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		34.1	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00219	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.123	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0262	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0239	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	J	0.000215	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		198	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		4.70	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	J	0.0775	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		92.4	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.54	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AZ08056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AZ08056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

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Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AZ08057

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0218	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.111	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		33.7	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.00121	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.0532	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.110	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		230	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		14.5	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.196	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		92.3	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.95	SU

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AZ08057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AZ08057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

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Reported: 5/30/2019
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Alabama Power General Test Laboratory
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AZ08058

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0470	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	J	0.0834	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		32.4	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	J	0.000964	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.0531	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0710	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		218	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		17.2	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.219	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		92.0	mg/L
Field Measurements										
pH	BTR	3/26/2019						FA	6.84	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AZ08058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AZ08058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08059

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08059	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0997	0.0983	0.103	0.085 to 0.115	99.7	70 to 130	1.39	20
AZ08059	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	1.54	20
AZ08059	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0919	0.0928	0.0962	0.085 to 0.115	91.9	70 to 130	1.02	20
AZ08059	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0972	0.0975	0.102	0.085 to 0.115	97.2	70 to 130	0.386	20
AZ08059	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0995	0.100	0.104	0.085 to 0.115	99.5	70 to 130	0.503	20
AZ08059	Boron, Total	mg/L	-0.0000393	0.044	1.00	0.992	0.991	0.998	0.85 to 1.15	99.2	70 to 130	0.150	20
AZ08059	Mercury, Total by CVAA	mg/L	-0.00000242	0.0005	0.004	0.00405	0.00397	0.00395	0.0034 to 0.0046	101	70 to 130	1.96	20
AZ08059	Calcium, Total	mg/L	0.000845	0.22	5.00	5.27	5.24	5.27	4.25 to 5.75	105	70 to 130	0.574	20
AZ08059	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.102	0.101	0.106	0.085 to 0.115	102	70 to 130	0.426	20
AZ08059	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.0982	0.102	0.085 to 0.115	101	70 to 130	2.51	20
AZ08059	Lithium, Total	mg/L	0.00000823	0.022	0.20	0.200	0.198	0.197	0.17 to 0.23	100	70 to 130	0.921	20
AZ08059	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0988	0.0974	0.0993	0.085 to 0.115	98.8	70 to 130	1.43	20
AZ08059	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.101	0.0978	0.0979	0.085 to 0.115	101	70 to 130	2.80	20
AZ08059	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.0987	0.0998	0.105	0.085 to 0.115	98.7	70 to 130	1.14	20
AZ08059	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.101	0.1000	0.104	0.085 to 0.115	101	70 to 130	1.29	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPFB
Sample Date: 26-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ08059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08058	Solids, Dissolved	mg/L	1.00	25			224	57.0	40 to 60			1.36	5
AZ08059	Chloride	mg/L	0.0278	0.50	10.0	9.72	0.146	10.0	9 to 11	97.2	80 to 120	0.00	20
AZ08059	Sulfate	mg/L	-0.0646	0.50	20.0	19.4	-0.284	19.3	18 to 22	97.0	80 to 120	0.00	20
AZ08059	Fluoride	mg/L	-0.0426	0.05	2.50	2.53	-0.0477	2.58	2.25 to 2.75	101	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments: The CCV for Boron was made using a std that was made with a 1,000ug/mL instead of the usual 5,000ug/mL. The concentration should be 0.500mg/L. Therefore, this CCV passed. LBM 5/21/19

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AZ08060

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.0264	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0768	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.33	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		10.15	1.015	5.075		162	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0303	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		1.11	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0167	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		50		834	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		14.9	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.248	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		20	10.00	20		335	mg/L
Field Measurements										
pH	BTR	3/27/2019						FA	6.41	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AZ08060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AZ08060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AZ08061

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.00573	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0678	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.298	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		31.0	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0292	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.119	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0151	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		211	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		14.2	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.104	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		10	5.00	10		83.2	mg/L
Field Measurements										
pH	BTR	3/27/2019						FA	6.37	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AZ08061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AZ08061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AZ08062

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.455	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.251	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.502	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		69.1	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.00614	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.0988	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	J	0.00284	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		328	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		16.1	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.208	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1		33.4	mg/L
Field Measurements										
pH	BTR	3/27/2019						FA	6.59	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AZ08062

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AZ08062

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AZ08063

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005		0.0140	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.167	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		1.11	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		71.8	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0140	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02		0.115	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	J	0.00778	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		347	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		17.1	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1		0.206	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		4	2.00	4		66.2	mg/L
Field Measurements										
pH	BTR	3/27/2019						FA	6.53	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

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Reported: 5/30/2019
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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
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FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AZ08063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

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Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AZ08063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
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Comments:

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Reported: 5/30/2019
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Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AZ08064

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01		0.0901	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1		0.113	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5		9.77	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005		0.0114	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25		178	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1		18.4	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		4	2.00	4		62.4	mg/L
Field Measurements										
pH	BTR	3/27/2019						FA	5.27	SU

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AZ08064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAP
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AZ08064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
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Certificate Of Analysis

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ08065

Name	Analyst	Test Date	Reference	Vio Spec	DF	MDL	RL	Q	Results	Units
Metals, Cyanide, Total Phenols										
* Arsenic, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Barium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Beryllium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0006	0.003	U	Not Detected	mg/L
* Boron, Total	GAS	4/17/2019	EPA 200.7		2.03	0.03	0.1	U	Not Detected	mg/L
* Calcium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.1	0.5	U	Not Detected	mg/L
* Cadmium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0003	0.001	U	Not Detected	mg/L
* Antimony, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0008	0.003	U	Not Detected	mg/L
* Cobalt, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.005	U	Not Detected	mg/L
* Chromium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Mercury, Total by CVAA	ABB	4/9/2019	EPA 245.1		1	0.0003	0.0005	U	Not Detected	mg/L
* Lithium, Total	GAS	4/17/2019	EPA 200.7		2.03	0.01	0.02	U	Not Detected	mg/L
* Molybdenum, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Lead, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.001	0.005	U	Not Detected	mg/L
* Selenium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.002	0.01	U	Not Detected	mg/L
* Thallium, Total	DLJ	3/29/2019	EPA 200.8		5.075	0.0002	0.001	U	Not Detected	mg/L
General Characteristics										
* Solids, Dissolved	CES	4/5/2019	SM 2540C		1		25	U	Not Detected	mg/L
Filter Completion Date	CES	4/2/2019	SM 2540C		1				04/02/2019	Date
* Chloride	JCC	4/1/2019	SM4500Cl E		1	0.50	1	U	Not Detected	mg/L
* Fluoride	JCC	3/29/2019	SM4500F C		1	0.05	0.1	U	Not Detected	mg/L
* Sulfate	JCC	4/2/2019	SM4500SO4 E		1	0.50	1	U	Not Detected	mg/L

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ08065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08065	Mercury, Total by CVAA	mg/L	-0.00000204	0.0005	0.004	0.00401	0.00405	0.00403	0.0034 to 0.0046	100	70 to 130	0.904	20
AZ08065	Molybdenum, Total	mg/L	0.00000274	0.0044	0.10	0.0985	0.101	0.0993	0.085 to 0.115	98.5	70 to 130	2.29	20
AZ08065	Cadmium, Total	mg/L	0.00000164	0.00066	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.143	20
AZ08065	Antimony, Total	mg/L	0.000298	0.00176	0.10	0.1000	0.0998	0.0979	0.085 to 0.115	100	70 to 130	0.153	20
AZ08065	Barium, Total	mg/L	0.00000145	0.0044	0.10	0.0925	0.0906	0.0962	0.085 to 0.115	92.5	70 to 130	2.07	20
AZ08065	Beryllium, Total	mg/L	0.0000271	0.00132	0.10	0.101	0.0986	0.105	0.085 to 0.115	101	70 to 130	2.22	20
AZ08065	Boron, Total	mg/L	-0.000392	0.044	1.00	0.996	1.02	0.997	0.85 to 1.15	99.6	70 to 130	2.23	20
AZ08065	Cobalt, Total	mg/L	-0.0000126	0.0044	0.10	0.103	0.103	0.106	0.085 to 0.115	103	70 to 130	0.742	20
AZ08065	Chromium, Total	mg/L	-0.000172	0.0044	0.10	0.0983	0.100	0.102	0.085 to 0.115	98.3	70 to 130	2.04	20
AZ08065	Lithium, Total	mg/L	-0.0000188	0.022	0.20	0.202	0.206	0.200	0.17 to 0.23	101	70 to 130	1.74	20
AZ08065	Selenium, Total	mg/L	0.000104	0.0044	0.10	0.0999	0.100	0.104	0.085 to 0.115	99.9	70 to 130	0.564	20
AZ08065	Calcium, Total	mg/L	0.00741	0.22	5.00	5.35	5.47	5.38	4.25 to 5.75	107	70 to 130	2.36	20
AZ08065	Lead, Total	mg/L	0.00000460	0.0022	0.10	0.101	0.104	0.104	0.085 to 0.115	101	70 to 130	2.86	20
AZ08065	Arsenic, Total	mg/L	0.00000937	0.0022	0.10	0.0992	0.0992	0.103	0.085 to 0.115	99.2	70 to 130	0.0270	20
AZ08065	Thallium, Total	mg/L	-0.00000326	0.00044	0.10	0.0989	0.100	0.104	0.085 to 0.115	98.9	70 to 130	1.40	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
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Reported: 5/30/2019
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Alabama Power General Test Laboratory
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Batch QC Summary

Alabama Power

Lab & Field SERVICES

To: Dustin Brooks
Greg Dyer
Corey Ladner

Customer Account: WMWGREAPEB
Sample Date: 27-Mar-19
Customer ID:
Delivery Date: 28-Mar-19

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ08065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ08064	Solids, Dissolved	mg/L	1.00	25			171	57.0	40 to 60			2.01	5
AZ08065	Sulfate	mg/L	-0.313	0.50	20.0	19.3	-0.346	19.4	18 to 22	96.5	80 to 120	0.00	20
AZ08065	Fluoride	mg/L	-0.0944	0.05	2.50	2.59	-0.0983	2.62	2.25 to 2.75	104	80 to 120	0.00	20
AZ08065	Chloride	mg/L	0.0183	0.50	10.0	10.0	0.177	10.0	9 to 11	100	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters conform to the most current applicable TNI/NELAC requirements, with exceptions noted on this report.
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2019

Comments:

CC:

Reported: 5/30/2019
Version: 2.0

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Definitions

Alabama Power

Lab & Field SERVICES

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
BA	Analyte found in reagent blank is = RL AND is > 1/10 the amount of the sample.
C	Analyte was verified by re-analysis.
D	All samples were stored at less than or equal to 6 °C and for no longer than 48 hours from time of sampling, unless otherwise noted.
E	Estimated reported value exceeded calibration range.
F	Water Field Group (WFG) qualifier; see comments for more information
FA	Field results were reviewed by the Water Field Group.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.
J	Reported value is an estimate because concentration is less than reporting limit.
K	No MB or LCS were submitted with the sample for dissolved analysis.
L	Check standard is outside of specification limit.
LA	Analyte recovery in the check standard was above specification limit. Results may be biased high.
LL	Analyte recovery in the check standard was below specification limit. Results may be biased low.
M	LOQ verification analyzed with batch was outside of specification limit.
N	Organic constituents tentatively identified. Confirmation is needed.
P	Precision is out of specification limit.
R	Matrix spike recovery or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
S	Surrogate recovery is outside of specification limit.
T	Sample temperature is outside of specification limit.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 03/28/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Nick Pitts	Location	Greene Ash Pond

Bottles													
1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27	3/26/19	09:42	4	Groundwater		AZ08030
MW-28	03/26/2019	10:32	4	Groundwater		AZ08031
MW-30	03/26/2019	11:25	4	Groundwater		AZ08032
MW-30 Dup	03/26/2019	11:25	4	Sample Duplicate		AZ08033
MW-29	03/26/2019	12:25	4	Groundwater		AZ08034
MW-26	03/26/2019	13:25	4	Groundwater		AZ08035
MW-23	03/26/2019	14:35	4	Groundwater		AZ08036
MW-24	03/26/2019	15:25	4	Groundwater		AZ08037
FB-3	03/26/2019	16:00	4	Field Blank		AZ08038
MW-33	03/27/2019	09:35	4	Groundwater		AZ08039
MW-31	03/27/2019	10:45	4	Groundwater		AZ08040
MW-32	03/27/2019	11:47	4	Groundwater		AZ08041
MW-32 Dup	03/27/2019	11:47	4	Sample Duplicate		AZ08042
MW-1	03/27/2019	13:00	4	Groundwater		AZ08043
MW-2	03/27/2019	13:57	4	Groundwater		AZ08044
MW-3	03/27/2019	14:47	4	Groundwater		AZ08045
FB-2	03/27/2019	14:25	4	Field Blank		AZ08046

Relinquished By	Received By	Date/Time
		03/28/2019 10:57

SmarTroll ID	7151-38850-2-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20009-2-1	Cooler Temp	0.7 degrees C
Sample Event	1212	Thermometer ID	5408-27568-2-2
		pH Strip ID	7260-39349-1-1

Alabama Power Lab & Field Services

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA: 03/28/2019 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Ben Rothschadl	Location	Greene Ash Pond

Bottles

#	Bottle	Volume	#	Bottle	Volume	#	Bottle	Volume	#	Bottle	Volume
1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	3/26/19	09:40	4	Groundwater		AZ08051
MW-17	03/26/2019	11:11	4	Groundwater		AZ08052
MW-16	03/26/2019	12:31	4	Groundwater		AZ08053
MW-15	03/26/2019	13:18	4	Groundwater		AZ08054
MW-15 DUP	03/26/2019	13:18	4	Sample Duplicate		AZ08055
MW-13	03/26/2019	14:19	4	Groundwater		AZ08056
MW-12	03/26/2019	15:11	4	Groundwater		AZ08057
MW-21	03/26/2019	15:54	4	Groundwater		AZ08058
FB-1	03/26/2019	16:15	4	Field Blank		AZ08059
MW-14	03/27/2019	11:36	4	Groundwater		AZ08060
MW-11	03/27/2019	12:26	4	Groundwater		AZ08061
MW-5	03/27/2019	13:17	4	Groundwater		AZ08062
MW-10	03/27/2019	14:10	4	Groundwater		AZ08063
MW-25	03/27/2019	15:18	4	Groundwater		AZ08064
EB-1	03/27/2019	15:55	4	Equipment Blank		AZ08065

Relinquished By	Received By	Date/Time
(signature)	(signature)	03/28/2019 11:00

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	0.3 degrees C
Sample Event	1212	Thermometer ID	5408-27568-2-2
		pH Strip ID	7260-39349-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 03/28/2019 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	3/26/19	10:52	4	Groundwater		AZ08047
MW-8	03/26/2019	11:37	4	Groundwater		AZ08048
MW-7	03/26/2019	12:44	4	Groundwater		AZ08049
MW-6	03/26/2019	13:33	4	Groundwater		AZ08050

Relinquished By	Received By	Date/Time
		03/28/2019 11:32

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	0.5 degrees C
Sample Event	1212	Thermometer ID	5408-27568-2-2
		pH Strip ID	7260-39349-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab
✔ Lab Complete

Lab ETA 03/28/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Nick Pitts	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27	3/26/19	09:42	1	Groundwater		AZ08066
MW-28	03/26/2019	10:32	1	Groundwater		AZ08067
MW-30	03/26/2019	11:25	1	Groundwater		AZ08068
MW-30 Dup	03/26/2019	11:25	1	Sample Duplicate		AZ08069
MW-29	03/26/2019	12:25	1	Groundwater		AZ08070
MW-26	03/26/2019	13:25	1	Groundwater		AZ08071
MW-23	03/26/2019	14:35	1	Groundwater		AZ08072
MW-24	03/26/2019	15:25	1	Groundwater		AZ08073
FB-3	03/26/2019	16:00	1	Field Blank		AZ08074
MW-33	03/27/2019	09:35	1	Groundwater		AZ08075
MW-31	03/27/2019	10:45	1	Groundwater		AZ08076
MW-32	03/27/2019	11:47	1	Groundwater		AZ08077
MW-32 Dup	03/27/2019	11:47	1	Sample Duplicate		AZ08078
MW-1	03/27/2019	13:00	1	Groundwater		AZ08079
MW-2	03/27/2019	13:57	1	Groundwater		AZ08080
MW-3	03/27/2019	14:47	1	Groundwater		AZ08081
FB-2	03/27/2019	14:25	1	Field Blank		AZ08082

Relinquished By	Received By	Date/Time
		03/28/2019 10:57

SmarTroll ID	7151-38850-2-2	All metals and radiological bottles have pH < 2	✔
Turbidity ID	3901-20009-2-1	Cooler Temp	N/A
Sample Event	1212	Thermometer ID	N/A
		pH Strip ID	7260-39349-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab
✔ Lab Complete

Lab ETA 03/28/2019 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Ben Rothschadl	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Duplicate Collected at MW-13

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	3/26/19	09:40	1	Groundwater		AZ08087
MW-17	03/26/2019	11:11	1	Groundwater		AZ08088
MW-16	03/26/2019	12:31	1	Groundwater		AZ08089
MW-15	03/26/2019	13:18	1	Groundwater		AZ08090
MW-15 DUP	03/26/2019	13:18	1	Sample Duplicate		AZ08091
MW-13	03/26/2019	14:19	3	Groundwater		AZ08092
MW-12	03/26/2019	15:11	1	Groundwater		AZ08093
MW-21	03/26/2019	15:54	1	Groundwater		AZ08094
FB-1	03/26/2019	16:15	1	Field Blank		AZ08095
MW-14	03/27/2019	11:36	1	Groundwater		AZ08096
MW-11	03/27/2019	12:26	1	Groundwater		AZ08097
MW-5	03/27/2019	13:17	1	Groundwater		AZ08098
MW-10	03/27/2019	14:10	1	Groundwater		AZ08099
MW-25	03/27/2019	15:18	1	Groundwater		AZ08100
EB-1	03/27/2019	15:55	1	Equipment Blank		AZ08101

Relinquished By	Received By	Date/Time
		03/28/2019 11:00

SmarTroll ID	4696-23443-3-2	All metals and radiological bottles have pH < 2	✔
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1212	Thermometer ID	N/A
		pH Strip ID	7260-39349-1-1

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA: 03/28/2019 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Duplicate collected at MW-7

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	3/26/19	10:52	1	Groundwater		AZ08083
MW-8	03/26/2019	11:37	1	Groundwater		AZ08084
MW-7	03/26/2019	12:44	3	Groundwater		AZ08085
MW-6	03/26/2019	13:33	1	Groundwater		AZ08086

Relinquished By	Received By	Date/Time
		03/28/2019 11:32

SmarTroll ID	7151-38849-2-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1212	Thermometer ID	N/A
		pH Strip ID	7260-39349-1-1

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-168077-1
Laboratory Sample Delivery Group: Greene Ash Pond 1212
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Cheyenne R Whitmire

Authorized for release by:
5/10/2019 5:35:31 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

Table of Contents

Job ID: 400-168077-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-168077-1

Receipt Exceptions
COC has sample listed as FB-1, container indicates FB-3; COC has sample listed as FB-1, container indicates FB-2. Matched by sample identification #s.

RAD
Method(s) 9315: Ra-226 Prep Batch 160-423611. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08085 MW-7 (400-168077-20), AZ08085 MW-7 (400-168077-20[DU]), AZ08086 MW-6 (400-168077-21), AZ08087 MW-18 (400-168077-22), AZ08088 MW-17 (400-168077-23), AZ08089 MW-16 (400-168077-24), AZ08090 MW-15 (400-168077-25), AZ08091 MW-15 DUP (400-168077-26), AZ08092 MW-13 (400-168077-27), AZ08092 MW-13 (400-168077-27[DU]), AZ08093 MW-12 (400-168077-28), AZ08094 MW-21 (400-168077-29), AZ08095 FB-1 (400-168077-30), AZ08096 MW-14 (400-168077-31), AZ08097 MW-11 (400-168077-32), AZ08098 MW-5 (400-168077-33), AZ08099 MW-10 (400-168077-34), (LCS 160-423611/1-A) and (MB 160-423611/24-A)

Method(s) 9315: Ra-226 Prep Batch 160-423610. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08066 MW-27 (400-168077-1), AZ08067 MW-28 (400-168077-2), AZ08068 MW-30 (400-168077-3), AZ08069 MW-30 DUP (400-168077-4), AZ08070 MW-29 (400-168077-5), AZ08071 MW-26 (400-168077-6), AZ08072 MW-23 (400-168077-7), AZ08073 MW-24 (400-168077-8), AZ08074 FB-3 (400-168077-9), AZ08075 MW-33 (400-168077-10), AZ08076 MW-31 (400-168077-11), AZ08077 MW-32 (400-168077-12), AZ08078 MW-32 DUP (400-168077-13), AZ08079 MW-1 (400-168077-14), AZ08080 MW-2 (400-168077-15), AZ08081 MW-3 (400-168077-16), AZ08082 FB-2 (400-168077-17), AZ08083 MW-9 (400-168077-18), AZ08084 MW-8 (400-168077-19), (LCS 160-423610/1-A), (LCSD 160-423610/2-A) and (MB 160-423610/23-A)

Method(s) 9315: Ra-226 Prep Batch 160-423612. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08100 MW-25 (400-168077-35), AZ08101 EB-1 (400-168077-36), (LCS 160-423612/1-A), (LCSD 160-423612/2-A) and (MB 160-423612/23-A)

Method(s) 9320: Ra-228 Prep Batch 160-423816. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08066 MW-27 (400-168077-1), AZ08067 MW-28 (400-168077-2), AZ08068 MW-30 (400-168077-3), AZ08069 MW-30 DUP (400-168077-4), AZ08070 MW-29 (400-168077-5), AZ08071 MW-26 (400-168077-6), AZ08072 MW-23 (400-168077-7), AZ08073 MW-24 (400-168077-8), AZ08074 FB-3 (400-168077-9), AZ08075 MW-33 (400-168077-10), AZ08076 MW-31 (400-168077-11), AZ08077 MW-32 (400-168077-12), AZ08078 MW-32 DUP (400-168077-13), AZ08079 MW-1 (400-168077-14), AZ08080 MW-2 (400-168077-15), AZ08081 MW-3 (400-168077-16), AZ08082 FB-2 (400-168077-17), AZ08083 MW-9 (400-168077-18), AZ08084 MW-8 (400-168077-19), (LCS 160-423816/1-A), (LCSD 160-423816/2-A) and (MB 160-423816/23-A)

Method(s) 9320: Radium-228 Prep Batch 160-423832. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08085 MW-7 (400-168077-20), AZ08085 MW-7 (400-168077-20[DU]), AZ08086 MW-6 (400-168077-21), AZ08087 MW-18 (400-168077-22), AZ08088 MW-17 (400-168077-23), AZ08089 MW-16 (400-168077-24), AZ08090 MW-15 (400-168077-25), AZ08091 MW-15 DUP (400-168077-26), AZ08092 MW-13 (400-168077-27), AZ08092 MW-13 (400-168077-27[DU]), AZ08093 MW-12 (400-168077-28), AZ08094 MW-21 (400-168077-29), AZ08095 FB-1 (400-168077-30), AZ08096 MW-14 (400-168077-31), AZ08097 MW-11 (400-168077-32), AZ08098 MW-5 (400-168077-33), AZ08099 MW-10 (400-168077-34), (LCS 160-423832/1-A) and (MB 160-423832/24-A)

Method(s) 9320: Ra-228 Prep Batch 160-423844. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ08100 MW-25 (400-168077-35), AZ08101 EB-1

Job ID: 400-168077-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

(400-168077-36), (LCS 160-423844/1-A), (LCSD 160-423844/2-A) and (MB 160-423844/23-A)

Method(s) PrecSep_0: Radium-228 Prep Batch 160-423816. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423816. An LCS/LCSD was created to demonstrate precision.

Method(s) PrecSep_0: Radium-228 Prep Batch 160-423816. The following sample was reduced due to heavy discoloration: AZ08079 MW-1 (400-168077-14).

Method(s) PrecSep_0: Radium-228 Prep Batch 160-423816. The following sample was discolored: AZ08081 MW-3 (400-168077-16). It was not reduced because the sample was not opaque and not odorous.

Method(s) PrecSep_0: Radium-228 Prep Batch 160-423844. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423844.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-423610. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423610. An LCS/LCSD was created to demonstrate precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-423610. The following sample was discolored: AZ08081 MW-3 (400-168077-16). It was not reduced because the sample was not opaque and not odorous.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-423610. The following sample was reduced due to heavy discoloration: AZ08079 MW-1 (400-168077-14).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-423612. Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-423612. An LCS/LCSD was created to demonstrate precision.

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-168077-1	AZ08066 MW-27	Water	03/26/19 09:42	04/01/19 16:30
400-168077-2	AZ08067 MW-28	Water	03/26/19 10:32	04/01/19 16:30
400-168077-3	AZ08068 MW-30	Water	03/26/19 11:25	04/01/19 16:30
400-168077-4	AZ08069 MW-30 DUP	Water	03/26/19 11:25	04/01/19 16:30
400-168077-5	AZ08070 MW-29	Water	03/26/19 12:25	04/01/19 16:30
400-168077-6	AZ08071 MW-26	Water	03/26/19 13:25	04/01/19 16:30
400-168077-7	AZ08072 MW-23	Water	03/26/19 14:35	04/01/19 16:30
400-168077-8	AZ08073 MW-24	Water	03/26/19 15:25	04/01/19 16:30
400-168077-9	AZ08074 FB-3	Water	03/26/19 16:00	04/01/19 16:30
400-168077-10	AZ08075 MW-33	Water	03/27/19 09:35	04/01/19 16:30
400-168077-11	AZ08076 MW-31	Water	03/27/19 10:45	04/01/19 16:30
400-168077-12	AZ08077 MW-32	Water	03/27/19 11:47	04/01/19 16:30
400-168077-13	AZ08078 MW-32 DUP	Water	03/27/19 11:47	04/01/19 16:30
400-168077-14	AZ08079 MW-1	Water	03/27/19 13:00	04/01/19 16:30
400-168077-15	AZ08080 MW-2	Water	03/27/19 13:57	04/01/19 16:30
400-168077-16	AZ08081 MW-3	Water	03/27/19 14:47	04/01/19 16:30
400-168077-17	AZ08082 FB-2	Water	03/27/19 14:25	04/01/19 16:30
400-168077-18	AZ08083 MW-9	Water	03/26/19 10:52	04/01/19 16:30
400-168077-19	AZ08084 MW-8	Water	03/26/19 11:37	04/01/19 16:30
400-168077-20	AZ08085 MW-7	Water	03/26/19 12:44	04/01/19 16:30
400-168077-21	AZ08086 MW-6	Water	03/26/19 13:33	04/01/19 16:30
400-168077-22	AZ08087 MW-18	Water	03/26/19 09:40	04/01/19 16:30
400-168077-23	AZ08088 MW-17	Water	03/26/19 11:11	04/01/19 16:30
400-168077-24	AZ08089 MW-16	Water	03/26/19 12:31	04/01/19 16:30
400-168077-25	AZ08090 MW-15	Water	03/26/19 13:18	04/01/19 16:30
400-168077-26	AZ08091 MW-15 DUP	Water	03/26/19 13:18	04/01/19 16:30
400-168077-27	AZ08092 MW-13	Water	03/26/19 14:19	04/01/19 16:30
400-168077-28	AZ08093 MW-12	Water	03/26/19 15:11	04/01/19 16:30
400-168077-29	AZ08094 MW-21	Water	03/26/19 15:54	04/01/19 16:30
400-168077-30	AZ08095 FB-1	Water	03/26/19 16:15	04/01/19 16:30
400-168077-31	AZ08096 MW-14	Water	03/27/19 11:36	04/01/19 16:30
400-168077-32	AZ08097 MW-11	Water	03/27/19 12:26	04/01/19 16:30
400-168077-33	AZ08098 MW-5	Water	03/27/19 13:17	04/01/19 16:30
400-168077-34	AZ08099 MW-10	Water	03/27/19 14:10	04/01/19 16:30
400-168077-35	AZ08100 MW-25	Water	03/27/19 15:18	04/01/19 16:30
400-168077-36	AZ08101 EB-1	Water	03/27/19 15:55	04/01/19 16:30

Client Sample ID: AZ08066 MW-27

Date Collected: 03/26/19 09:42
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.111**		0.0687	0.0694	1.00	0.0856	pCi/L	04/14/19 16:44	05/07/19 07:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.387	U	0.276	0.279	1.00	0.435	pCi/L	04/14/19 16:44	04/24/19 08:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*
Y Carrier	*90.1*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.498**		0.284	0.288	5.00	0.435	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08067 MW-28

Date Collected: 03/26/19 10:32
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.282		0.100	0.103	1.00	0.0929	pCi/L	04/14/19 16:44	05/07/19 07:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.795		0.294	0.303	1.00	0.406	pCi/L	04/14/19 16:44	04/24/19 08:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*
Y Carrier	*86.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.311	0.320	5.00	0.406	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08068 MW-30

Date Collected: 03/26/19 11:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205		0.105	0.107	1.00	0.135	pCi/L	04/14/19 16:44	05/07/19 07:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.4*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.354	0.368	1.00	0.475	pCi/L	04/14/19 16:44	04/24/19 08:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*
Y Carrier	*86.0*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.30		0.369	0.383	5.00	0.475	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08069 MW-30 DUP

Date Collected: 03/26/19 11:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236		0.105	0.107	1.00	0.124	pCi/L	04/14/19 16:44	05/07/19 07:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.479		0.250	0.254	1.00	0.371	pCi/L	04/14/19 16:44	04/24/19 08:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*
Y Carrier	*89.7*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.714		0.271	0.276	5.00	0.371	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08070 MW-29

Date Collected: 03/26/19 12:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.172		0.0769	0.0784	1.00	0.0720	pCi/L	04/14/19 16:44	05/07/19 07:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:09*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.425		0.243	0.246	1.00	0.365	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*91.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.598		0.255	0.258	5.00	0.365	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08071 MW-26

Date Collected: 03/26/19 13:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.107		0.0705	0.0712	1.00	0.0936	pCi/L	04/14/19 16:44	05/07/19 07:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:09*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.464		0.291	0.295	1.00	0.451	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*87.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.571		0.299	0.303	5.00	0.451	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08072 MW-23

Date Collected: 03/26/19 14:35
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0721	U	0.0641	0.0644	1.00	0.0962	pCi/L	04/14/19 16:44	05/07/19 07:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:09*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.243	U	0.274	0.275	1.00	0.451	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*86.7*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.315	U	0.281	0.282	5.00	0.451	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08073 MW-24

Date Collected: 03/26/19 15:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.419		0.119	0.125	1.00	0.0952	pCi/L	04/14/19 16:44	05/07/19 07:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.788		0.293	0.302	1.00	0.401	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*89.0*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.21		0.316	0.327	5.00	0.401	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08074 FB-3

Date Collected: 03/26/19 16:00
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-9

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00629	U	0.0386	0.0386	1.00	0.0806	pCi/L	04/14/19 16:44	05/07/19 07:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*04/14/19 16:44*	*05/07/19 07:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.387**		0.246	0.249	1.00	0.376	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*88.6*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.393**		0.249	0.252	5.00	0.376	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08075 MW-33

Date Collected: 03/27/19 09:35
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-10

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.666		0.155	0.166	1.00	0.101	pCi/L	04/14/19 16:44	05/07/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.332	0.349	1.00	0.424	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*86.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.83		0.366	0.386	5.00	0.424	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08076 MW-31

Date Collected: 03/27/19 10:45
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-11

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0480	U	0.0662	0.0663	1.00	0.112	pCi/L	04/14/19 16:44	05/07/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.242	U	0.205	0.206	1.00	0.326	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*89.0*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.290	U	0.215	0.216	5.00	0.326	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08077 MW-32

Date Collected: 03/27/19 11:47
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-12

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0972		0.0673	0.0678	1.00	0.0880	pCi/L	04/14/19 16:44	05/07/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.2*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403		0.253	0.256	1.00	0.387	pCi/L	04/14/19 16:44	04/24/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*
Y Carrier	*87.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.500		0.262	0.265	5.00	0.387	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08078 MW-32 DUP

Date Collected: 03/27/19 11:47
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.128		0.0730	0.0739	1.00	0.0872	pCi/L	04/14/19 16:44	05/07/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440		0.261	0.265	1.00	0.398	pCi/L	04/14/19 16:44	04/24/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*
Y Carrier	*88.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.567		0.271	0.275	5.00	0.398	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08079 MW-1

Date Collected: 03/27/19 13:00
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.376**		0.176	0.179	1.00	0.194	pCi/L	04/14/19 16:44	05/07/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.792	U	0.532	0.537	1.00	0.822	pCi/L	04/14/19 16:44	04/24/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*
Y Carrier	*88.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.17**		0.560	0.566	5.00	0.822	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08080 MW-2

Date Collected: 03/27/19 13:57
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.242		0.103	0.105	1.00	0.122	pCi/L	04/14/19 16:44	05/07/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*04/14/19 16:44*	*05/07/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.528		0.271	0.275	1.00	0.402	pCi/L	04/14/19 16:44	04/24/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*
Y Carrier	*87.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.770		0.290	0.294	5.00	0.402	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08081 MW-3

Date Collected: 03/27/19 14:47
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.541		0.141	0.149	1.00	0.123	pCi/L	04/14/19 16:44	05/07/19 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*04/14/19 16:44*	*05/07/19 11:37*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.934		0.288	0.301	1.00	0.373	pCi/L	04/14/19 16:44	04/24/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*
Y Carrier	*86.4*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.47		0.321	0.336	5.00	0.373	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08082 FB-2

Date Collected: 03/27/19 14:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0144	U	0.0383	0.0384	1.00	0.0756	pCi/L	04/14/19 16:44	05/07/19 09:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*05/07/19 09:56*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.289	U	0.247	0.249	1.00	0.395	pCi/L	04/14/19 16:44	04/24/19 08:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*
Y Carrier	*90.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.303	U	0.250	0.252	5.00	0.395	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08083 MW-9

Date Collected: 03/26/19 10:52
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-18

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.594		0.140	0.149	1.00	0.0969	pCi/L	04/14/19 16:44	05/07/19 09:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*40 - 110*	*04/14/19 16:44*	*05/07/19 09:56*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.893		0.277	0.289	1.00	0.350	pCi/L	04/14/19 16:44	04/24/19 08:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*
Y Carrier	*88.2*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.49		0.310	0.325	5.00	0.350	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08084 MW-8

Date Collected: 03/26/19 11:37
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-19

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.188**		0.0847	0.0864	1.00	0.0945	pCi/L	04/14/19 16:44	05/07/19 09:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*04/14/19 16:44*	*05/07/19 09:56*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.320	U	0.245	0.247	1.00	0.386	pCi/L	04/14/19 16:44	04/24/19 08:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*
Y Carrier	*87.9*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.507**		0.259	0.262	5.00	0.386	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08085 MW-7

Date Collected: 03/26/19 12:44
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-20

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.263		0.0994	0.102	1.00	0.0997	pCi/L	04/14/19 16:48	05/07/19 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.577		0.269	0.274	1.00	0.389	pCi/L	04/14/19 16:48	04/25/19 08:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:11*	*1*
Y Carrier	*92.0*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:11*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.841		0.287	0.292	5.00	0.389	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08086 MW-6

Date Collected: 03/26/19 13:33
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-21

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.234		0.0913	0.0938	1.00	0.0847	pCi/L	04/14/19 16:48	05/07/19 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.669		0.280	0.287	1.00	0.396	pCi/L	04/14/19 16:48	04/25/19 08:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:11*	*1*
Y Carrier	*89.7*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:11*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.904		0.295	0.302	5.00	0.396	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08087 MW-18

Date Collected: 03/26/19 09:40
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-22

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.372		0.107	0.112	1.00	0.0887	pCi/L	04/14/19 16:48	05/07/19 13:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.1*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.983		0.269	0.284	1.00	0.331	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.1*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*90.5*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.35		0.289	0.305	5.00	0.331	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08088 MW-17

Date Collected: 03/26/19 11:11
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-23

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.579		0.131	0.141	1.00	0.0859	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.995		0.279	0.294	1.00	0.346	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*89.7*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.57		0.308	0.326	5.00	0.346	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08089 MW-16

Date Collected: 03/26/19 12:31
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-24

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141		0.0774	0.0785	1.00	0.0928	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.291	0.306	1.00	0.358	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*91.6*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.301	0.316	5.00	0.358	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08090 MW-15

Date Collected: 03/26/19 13:18
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-25

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0695	U	0.0531	0.0535	1.00	0.0708	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.465**		0.247	0.251	1.00	0.368	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*91.6*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.535**		0.253	0.257	5.00	0.368	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08091 MW-15 DUP

Date Collected: 03/26/19 13:18
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-26

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.104**		0.0634	0.0640	1.00	0.0760	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.319	U	0.230	0.232	1.00	0.359	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*92.7*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.423**		0.239	0.241	5.00	0.359	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08092 MW-13

Date Collected: 03/26/19 14:19
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-27

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0589	U	0.0511	0.0514	1.00	0.0736	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.0*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.412**		0.222	0.226	1.00	0.330	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.0*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*92.3*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.471**		0.228	0.232	5.00	0.330	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08093 MW-12

Date Collected: 03/26/19 15:11
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-28

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0633	U	0.0567	0.0570	1.00	0.0815	pCi/L	04/14/19 16:48	05/07/19 13:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U	0.212	0.214	1.00	0.327	pCi/L	04/14/19 16:48	04/25/19 08:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*
Y Carrier	*93.8*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.381**		0.219	0.221	5.00	0.327	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08094 MW-21

Date Collected: 03/26/19 15:54
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-29

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0617	U	0.0512	0.0515	1.00	0.0720	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.343**		0.217	0.219	1.00	0.330	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*92.3*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.405**		0.223	0.225	5.00	0.330	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08095 FB-1

Date Collected: 03/26/19 16:15
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-30

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.0406	0.0406	1.00	0.0904	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.267	U	0.203	0.204	1.00	0.316	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*90.8*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.267	U	0.207	0.208	5.00	0.316	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08096 MW-14

Date Collected: 03/27/19 11:36
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-31

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.111	0.115	1.00	0.0832	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.741		0.255	0.264	1.00	0.333	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*89.0*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.10		0.278	0.288	5.00	0.333	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08097 MW-11

Date Collected: 03/27/19 12:26
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-32

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111		0.0636	0.0644	1.00	0.0725	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453		0.240	0.243	1.00	0.357	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*91.2*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.564		0.248	0.251	5.00	0.357	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08098 MW-5

Date Collected: 03/27/19 13:17
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-33

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.894		0.161	0.180	1.00	0.0772	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.669		0.259	0.266	1.00	0.360	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*90.5*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.56		0.305	0.321	5.00	0.360	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08099 MW-10

Date Collected: 03/27/19 14:10
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-34

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.299		0.105	0.108	1.00	0.105	pCi/L	04/14/19 16:48	05/07/19 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:20*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.689		0.254	0.262	1.00	0.341	pCi/L	04/14/19 16:48	04/25/19 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*
Y Carrier	*88.2*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.988		0.275	0.283	5.00	0.341	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08100 MW-25

Date Collected: 03/27/19 15:18
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-35

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.128**		0.0665	0.0675	1.00	0.0714	pCi/L	04/14/19 16:53	05/09/19 12:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*04/14/19 16:53*	*05/09/19 12:45*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.181	U	0.213	0.214	1.00	0.352	pCi/L	04/14/19 16:53	05/01/19 15:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*
Y Carrier	*86.4*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.309	U	0.223	0.224	5.00	0.352	pCi/L		05/10/19 09:12	1

Client Sample ID: AZ08101 EB-1

Date Collected: 03/27/19 15:55
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-36

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0411	U	0.0511	0.0513	1.00	0.0834	pCi/L	04/14/19 16:53	05/09/19 12:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*04/14/19 16:53*	*05/09/19 12:45*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.181	U	0.217	0.218	1.00	0.358	pCi/L	04/14/19 16:53	05/01/19 15:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*
Y Carrier	*86.4*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.222	U	0.223	0.224	5.00	0.358	pCi/L		05/10/19 09:12	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08066 MW-27
Date Collected: 03/26/19 09:42
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 07:05	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08067 MW-28
Date Collected: 03/26/19 10:32
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 07:06	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08068 MW-30
Date Collected: 03/26/19 11:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 07:06	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08069 MW-30 DUP
Date Collected: 03/26/19 11:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 07:06	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08070 MW-29
Date Collected: 03/26/19 12:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 07:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08071 MW-26
Date Collected: 03/26/19 13:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 07:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08072 MW-23
Date Collected: 03/26/19 14:35
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 07:09	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08073 MW-24
Date Collected: 03/26/19 15:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 07:10	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08074 FB-3
Date Collected: 03/26/19 16:00
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 07:10	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08075 MW-33
Date Collected: 03/27/19 09:35
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:57	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08076 MW-31
Date Collected: 03/27/19 10:45
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:58	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08077 MW-32
Date Collected: 03/27/19 11:47
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:58	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425438	04/24/19 08:57	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08078 MW-32 DUP

Lab Sample ID: 400-168077-13

Date Collected: 03/27/19 11:47
Matrix: Water
Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:58	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:58	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08079 MW-1

Lab Sample ID: 400-168077-14

Date Collected: 03/27/19 13:00
Matrix: Water
Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:58	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:58	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08080 MW-2

Lab Sample ID: 400-168077-15

Date Collected: 03/27/19 13:57
Matrix: Water
Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 08:58	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:58	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08081 MW-3

Lab Sample ID: 400-168077-16

Date Collected: 03/27/19 14:47
Matrix: Water
Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427439	05/07/19 11:37	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:58	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08082 FB-2
Date Collected: 03/27/19 14:25
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 09:56	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:59	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08083 MW-9
Date Collected: 03/26/19 10:52
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 09:56	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:59	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08084 MW-8
Date Collected: 03/26/19 11:37
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423610	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 09:56	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423816	04/14/19 16:44	MMO	TAL SL
Total/NA	Analysis	9320		1	425402	04/24/19 08:59	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08085 MW-7
Date Collected: 03/26/19 12:44
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 13:16	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08086 MW-6
Date Collected: 03/26/19 13:33
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427429	05/07/19 13:16	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08087 MW-18
Date Collected: 03/26/19 09:40
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:18	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08088 MW-17
Date Collected: 03/26/19 11:11
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08089 MW-16
Date Collected: 03/26/19 12:31
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08090 MW-15
Date Collected: 03/26/19 13:18
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08091 MW-15 DUP
Date Collected: 03/26/19 13:18
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08092 MW-13
Date Collected: 03/26/19 14:19
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08093 MW-12
Date Collected: 03/26/19 15:11
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:19	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:12	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Client Sample ID: AZ08094 MW-21
Date Collected: 03/26/19 15:54
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08095 FB-1
Date Collected: 03/26/19 16:15
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08096 MW-14
Date Collected: 03/27/19 11:36
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08097 MW-11
Date Collected: 03/27/19 12:26
Date Received: 04/01/19 16:30

Lab Sample ID: 400-168077-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08098 MW-5

Lab Sample ID: 400-168077-33

Date Collected: 03/27/19 13:17

Matrix: Water

Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08099 MW-10

Lab Sample ID: 400-168077-34

Date Collected: 03/27/19 14:10

Matrix: Water

Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423611	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9315		1	427422	05/07/19 13:20	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423832	04/14/19 16:48	MMO	TAL SL
Total/NA	Analysis	9320		1	425517	04/25/19 08:13	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08100 MW-25

Lab Sample ID: 400-168077-35

Date Collected: 03/27/19 15:18

Matrix: Water

Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423612	04/14/19 16:53	MMO	TAL SL
Total/NA	Analysis	9315		1	427793	05/09/19 12:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423844	04/14/19 16:53	MMO	TAL SL
Total/NA	Analysis	9320		1	426331	05/01/19 15:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Client Sample ID: AZ08101 EB-1

Lab Sample ID: 400-168077-36

Date Collected: 03/27/19 15:55

Matrix: Water

Date Received: 04/01/19 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			423612	04/14/19 16:53	MMO	TAL SL
Total/NA	Analysis	9315		1	427793	05/09/19 12:45	CDR	TAL SL
Total/NA	Prep	PrecSep_0			423844	04/14/19 16:53	MMO	TAL SL
Total/NA	Analysis	9320		1	426331	05/01/19 15:56	CDR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	427856	05/10/19 09:12	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Rad

Prep Batch: 423610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-1	AZ08066 MW-27	Total/NA	Water	PrecSep-21	
400-168077-2	AZ08067 MW-28	Total/NA	Water	PrecSep-21	
400-168077-3	AZ08068 MW-30	Total/NA	Water	PrecSep-21	
400-168077-4	AZ08069 MW-30 DUP	Total/NA	Water	PrecSep-21	
400-168077-5	AZ08070 MW-29	Total/NA	Water	PrecSep-21	
400-168077-6	AZ08071 MW-26	Total/NA	Water	PrecSep-21	
400-168077-7	AZ08072 MW-23	Total/NA	Water	PrecSep-21	
400-168077-8	AZ08073 MW-24	Total/NA	Water	PrecSep-21	
400-168077-9	AZ08074 FB-3	Total/NA	Water	PrecSep-21	
400-168077-10	AZ08075 MW-33	Total/NA	Water	PrecSep-21	
400-168077-11	AZ08076 MW-31	Total/NA	Water	PrecSep-21	
400-168077-12	AZ08077 MW-32	Total/NA	Water	PrecSep-21	
400-168077-13	AZ08078 MW-32 DUP	Total/NA	Water	PrecSep-21	
400-168077-14	AZ08079 MW-1	Total/NA	Water	PrecSep-21	
400-168077-15	AZ08080 MW-2	Total/NA	Water	PrecSep-21	
400-168077-16	AZ08081 MW-3	Total/NA	Water	PrecSep-21	
400-168077-17	AZ08082 FB-2	Total/NA	Water	PrecSep-21	
400-168077-18	AZ08083 MW-9	Total/NA	Water	PrecSep-21	
400-168077-19	AZ08084 MW-8	Total/NA	Water	PrecSep-21	
MB 160-423610/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-423610/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-423610/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 423611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-20	AZ08085 MW-7	Total/NA	Water	PrecSep-21	
400-168077-21	AZ08086 MW-6	Total/NA	Water	PrecSep-21	
400-168077-22	AZ08087 MW-18	Total/NA	Water	PrecSep-21	
400-168077-23	AZ08088 MW-17	Total/NA	Water	PrecSep-21	
400-168077-24	AZ08089 MW-16	Total/NA	Water	PrecSep-21	
400-168077-25	AZ08090 MW-15	Total/NA	Water	PrecSep-21	
400-168077-26	AZ08091 MW-15 DUP	Total/NA	Water	PrecSep-21	
400-168077-27	AZ08092 MW-13	Total/NA	Water	PrecSep-21	
400-168077-28	AZ08093 MW-12	Total/NA	Water	PrecSep-21	
400-168077-29	AZ08094 MW-21	Total/NA	Water	PrecSep-21	
400-168077-30	AZ08095 FB-1	Total/NA	Water	PrecSep-21	
400-168077-31	AZ08096 MW-14	Total/NA	Water	PrecSep-21	
400-168077-32	AZ08097 MW-11	Total/NA	Water	PrecSep-21	
400-168077-33	AZ08098 MW-5	Total/NA	Water	PrecSep-21	
400-168077-34	AZ08099 MW-10	Total/NA	Water	PrecSep-21	
MB 160-423611/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-423611/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-168077-20 DU	AZ08085 MW-7	Total/NA	Water	PrecSep-21	
400-168077-27 DU	AZ08092 MW-13	Total/NA	Water	PrecSep-21	

Prep Batch: 423612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-35	AZ08100 MW-25	Total/NA	Water	PrecSep-21	
400-168077-36	AZ08101 EB-1	Total/NA	Water	PrecSep-21	
MB 160-423612/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-423612/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 423612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 160-423612/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 423816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-1	AZ08066 MW-27	Total/NA	Water	PrecSep_0	
400-168077-2	AZ08067 MW-28	Total/NA	Water	PrecSep_0	
400-168077-3	AZ08068 MW-30	Total/NA	Water	PrecSep_0	
400-168077-4	AZ08069 MW-30 DUP	Total/NA	Water	PrecSep_0	
400-168077-5	AZ08070 MW-29	Total/NA	Water	PrecSep_0	
400-168077-6	AZ08071 MW-26	Total/NA	Water	PrecSep_0	
400-168077-7	AZ08072 MW-23	Total/NA	Water	PrecSep_0	
400-168077-8	AZ08073 MW-24	Total/NA	Water	PrecSep_0	
400-168077-9	AZ08074 FB-3	Total/NA	Water	PrecSep_0	
400-168077-10	AZ08075 MW-33	Total/NA	Water	PrecSep_0	
400-168077-11	AZ08076 MW-31	Total/NA	Water	PrecSep_0	
400-168077-12	AZ08077 MW-32	Total/NA	Water	PrecSep_0	
400-168077-13	AZ08078 MW-32 DUP	Total/NA	Water	PrecSep_0	
400-168077-14	AZ08079 MW-1	Total/NA	Water	PrecSep_0	
400-168077-15	AZ08080 MW-2	Total/NA	Water	PrecSep_0	
400-168077-16	AZ08081 MW-3	Total/NA	Water	PrecSep_0	
400-168077-17	AZ08082 FB-2	Total/NA	Water	PrecSep_0	
400-168077-18	AZ08083 MW-9	Total/NA	Water	PrecSep_0	
400-168077-19	AZ08084 MW-8	Total/NA	Water	PrecSep_0	
MB 160-423816/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-423816/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-423816/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 423832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-20	AZ08085 MW-7	Total/NA	Water	PrecSep_0	
400-168077-21	AZ08086 MW-6	Total/NA	Water	PrecSep_0	
400-168077-22	AZ08087 MW-18	Total/NA	Water	PrecSep_0	
400-168077-23	AZ08088 MW-17	Total/NA	Water	PrecSep_0	
400-168077-24	AZ08089 MW-16	Total/NA	Water	PrecSep_0	
400-168077-25	AZ08090 MW-15	Total/NA	Water	PrecSep_0	
400-168077-26	AZ08091 MW-15 DUP	Total/NA	Water	PrecSep_0	
400-168077-27	AZ08092 MW-13	Total/NA	Water	PrecSep_0	
400-168077-28	AZ08093 MW-12	Total/NA	Water	PrecSep_0	
400-168077-29	AZ08094 MW-21	Total/NA	Water	PrecSep_0	
400-168077-30	AZ08095 FB-1	Total/NA	Water	PrecSep_0	
400-168077-31	AZ08096 MW-14	Total/NA	Water	PrecSep_0	
400-168077-32	AZ08097 MW-11	Total/NA	Water	PrecSep_0	
400-168077-33	AZ08098 MW-5	Total/NA	Water	PrecSep_0	
400-168077-34	AZ08099 MW-10	Total/NA	Water	PrecSep_0	
MB 160-423832/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-423832/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-168077-20 DU	AZ08085 MW-7	Total/NA	Water	PrecSep_0	
400-168077-27 DU	AZ08092 MW-13	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Rad

Prep Batch: 423844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-168077-35	AZ08100 MW-25	Total/NA	Water	PrecSep_0	
400-168077-36	AZ08101 EB-1	Total/NA	Water	PrecSep_0	
MB 160-423844/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-423844/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-423844/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-423610/23-A
Matrix: Water
Analysis Batch: 427429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423610

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.003589	U	0.0451	0.0451	1.00	0.0937	pCi/L	04/14/19 16:44	05/07/19 09:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*05/07/19 09:56*	*1*

Lab Sample ID: LCS 160-423610/1-A
Matrix: Water
Analysis Batch: 427439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423610

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	9.678		1.03	1.00	0.0931	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.7*		*40 - 110*

Lab Sample ID: LCSD 160-423610/2-A
Matrix: Water
Analysis Batch: 427439

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423610

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.4	10.63		1.12	1.00	0.126	pCi/L	94	75 - 125	0.44	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*82.6*		*40 - 110*

Lab Sample ID: MB 160-423611/24-A
Matrix: Water
Analysis Batch: 427653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423611

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.06299	U	0.0535	0.0538	1.00	0.0761	pCi/L	04/14/19 16:48	05/07/19 13:22	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*04/14/19 16:48*	*05/07/19 13:22*	*1*

Lab Sample ID: LCS 160-423611/1-A
Matrix: Water
Analysis Batch: 427429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423611

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	10.04		1.05	1.00	0.0858	pCi/L	88	75 - 125		

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-423611/1-A
Matrix: Water
Analysis Batch: 427429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423611

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.0		40 - 110

Lab Sample ID: 400-168077-20 DU
Matrix: Water
Analysis Batch: 427429

Client Sample ID: AZ08085 MW-7
Prep Type: Total/NA
Prep Batch: 423611

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.263			0.2137		0.0923	1.00	0.0946	pCi/L			0.25	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.5		40 - 110

Lab Sample ID: 400-168077-27 DU
Matrix: Water
Analysis Batch: 427422

Client Sample ID: AZ08092 MW-13
Prep Type: Total/NA
Prep Batch: 423611

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0589	U		0.1179		0.0640	1.00	0.0693	pCi/L			0.51	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.5		40 - 110

Lab Sample ID: MB 160-423612/23-A
Matrix: Water
Analysis Batch: 427793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423612

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02477	U	0.0512	0.0512	1.00	0.0945	pCi/L	04/14/19 16:53	05/09/19 12:44	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110	04/14/19 16:53	05/09/19 12:44	1

Lab Sample ID: LCS 160-423612/1-A
Matrix: Water
Analysis Batch: 427794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423612

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	9.200		0.987	1.00	0.0782	pCi/L	81	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.6		40 - 110

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-423612/2-A
Matrix: Water
Analysis Batch: 427796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423612

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.4	9.064		0.954	1.00	0.0892	pCi/L	80	75 - 125	0.07	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-423816/23-A
Matrix: Water
Analysis Batch: 425402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423816

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2158	U	0.246	0.247	1.00	0.405	pCi/L	04/14/19 16:44	04/24/19 08:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*
Y Carrier	*93.8*		*40 - 110*	*04/14/19 16:44*	*04/24/19 08:59*	*1*

Lab Sample ID: LCS 160-423816/1-A
Matrix: Water
Analysis Batch: 425438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423816

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.27	9.982		1.14	1.00	0.372	pCi/L	108	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.7*		*40 - 110*
Y Carrier	*85.2*		*40 - 110*

Lab Sample ID: LCSD 160-423816/2-A
Matrix: Water
Analysis Batch: 425438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423816

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			9.27	9.706		1.14	1.00	0.386	pCi/L	105	75 - 125	0.12	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*82.6*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-423832/24-A
Matrix: Water
Analysis Batch: 425516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423832

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3565	U	0.235	0.237	1.00	0.361	pCi/L	04/14/19 16:48	04/25/19 08:15	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:15*	*1*
Y Carrier	*89.7*		*40 - 110*	*04/14/19 16:48*	*04/25/19 08:15*	*1*

Lab Sample ID: LCS 160-423832/1-A
Matrix: Water
Analysis Batch: 425517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423832

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.27	10.51		1.20	1.00	0.391	pCi/L	113	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.0*		*40 - 110*
Y Carrier	*87.5*		*40 - 110*

Lab Sample ID: 400-168077-20 DU
Matrix: Water
Analysis Batch: 425517

Client Sample ID: AZ08085 MW-7
Prep Type: Total/NA
Prep Batch: 423832

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.577			0.4291		0.277	1.00	0.422	pCi/L			0.27	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.5*		*40 - 110*
Y Carrier	*85.6*		*40 - 110*

Lab Sample ID: 400-168077-27 DU
Matrix: Water
Analysis Batch: 425517

Client Sample ID: AZ08092 MW-13
Prep Type: Total/NA
Prep Batch: 423832

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.412			0.2137	U	0.191	1.00	0.303	pCi/L			0.48	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*93.5*		*40 - 110*
Y Carrier	*87.5*		*40 - 110*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-423844/23-A
Matrix: Water
Analysis Batch: 426331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 423844

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1111	U	0.248	0.249	1.00	0.425	pCi/L	04/14/19 16:53	05/01/19 15:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*
Y Carrier	*84.5*		*40 - 110*	*04/14/19 16:53*	*05/01/19 15:56*	*1*

Lab Sample ID: LCS 160-423844/1-A
Matrix: Water
Analysis Batch: 426333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 423844

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.25	8.496		1.02	1.00	0.370	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.6*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

Lab Sample ID: LCSD 160-423844/2-A
Matrix: Water
Analysis Batch: 426333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 423844

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			9.25	8.617		1.03	1.00	0.370	pCi/L	93	75 - 125	0.06	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*
Y Carrier	*83.0*		*40 - 110*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-168077-20 DU
Matrix: Water
Analysis Batch: 427856

Client Sample ID: AZ08085 MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	0.841			0.6428		0.292	5.00	0.422	pCi/L			0.34	

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228 (Continued)

Lab Sample ID: 400-168077-27 DU
Matrix: Water
Analysis Batch: 427856

Client Sample ID: AZ08092 MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	0.471			0.3317		0.201	5.00	0.303	pCi/L			0.32	

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Nick Pitts	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 3
Company: Alabama Power General Test Laboratory				Job #:

Address: 744 County Rd 87 GSC #8	Due Date Requested:	Analysis Requested
City: Calera	TAT Requested (days): Routine	
State, Zip: AL, 35040		
Phone: 205-664-6197(Tel)	PO #:	
Email: lbmidkif@southernco.com	WO #:	
Project Name: CCR	Project #: 40007143	
Site: Greene Ash Pond 1212	SSOW#:	

400-168077 COC

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	D		
AZ08066	3/26/19	09:42	G	Water						X	1	MW-27
AZ08067	3/26/19	10:32	G	Water						X	1	MW-28
AZ08068	3/26/19	11:25	G	Water						X	1	MW-30
AZ08069	3/26/19	11:25	G	Water						X	1	MW-30 DUP (Sample Duplicate)
AZ08070	3/26/19	12:25	G	Water						X	1	MW-29
AZ08071	3/26/19	13:25	G	Water						X	1	MW-26
AZ08072	3/26/19	14:35	G	Water						X	1	MW-23
AZ08073	3/26/19	15:25	G	Water						X	1	MW-24
AZ08074	3/26/19	16:00	G	Water						X	1	FB-1 (Field Blank)
AZ08075	3/27/19	09:35	G	Water						X	1	MW-33
AZ08076	3/27/19	10:45	G	Water						X	1	MW-31
AZ08077	3/27/19	11:47	G	Water						X	1	MW-32
AZ08078	3/27/19	11:47	G	Water						X	1	MW-32 DUP (Sample Duplicate)
AZ08079	3/27/19	13:00	G	Water						X	1	MW-1
AZ08080	3/27/19	13:57	G	Water						X	1	MW-2
AZ08081	3/27/19	14:47	G	Water						X	1	MW-3
AZ08082	3/27/19	14:25	G	Water						X	1	FB-1 (Field Blank)

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Laura Midkiff	3/29/2019 10:30	Water APC	Received by:	Date/Time: 4/1/19 1630	Company: TAPE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 17.1°C, 18.1°C, 18.0°C IR8

5/10/2019

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 2 of 3
Company: Alabama Power General Test Laboratory				Job #:
Address: 744 County Rd 87 GSC #8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197(Tel)	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1212	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226; 9320_Ra228; Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	D	X	
AZ08083	3/26/19	10:52	G	Water						X	1	MW-9
AZ08084	3/26/19	11:37	G	Water						X	1	MW-8
AZ08085	3/26/19	12:44	G	Water		X				X	3	MW-7
AZ08086	3/26/19	13:33	G	Water						X	1	MW-6

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Laura Midkiff	3/29/2019 10:30 Water APC	Received by:	Date/Time: 4/1/19 1630 Company: APEN
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ben Rothschadl	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 3 of 3
Company: Alabama Power General Test Laboratory				Job #:
Address: 744 County Rd 87 GSC #8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197(Tel)	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1212	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226; 9320_Ra228; Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	D		
AZ08087	3/26/19	09:40	G	Water						X	1	MW-18
AZ08088	3/26/19	11:11	G	Water						X	1	MW-17
AZ08089	3/26/19	12:31	G	Water						X	1	MW-16
AZ08090	3/26/19	13:18	G	Water						X	1	MW-15
AZ08091	3/26/19	13:18	G	Water						X	1	MW-15 DUP (Sample Duplicate)
AZ08092	3/26/19	14:19	G	Water		X				X	3	MW-13
AZ08093	3/26/19	15:11	G	Water						X	1	MW-12
AZ08094	3/26/19	15:54	G	Water						X	1	MW-21
AZ08095	3/26/19	16:15	G	Water						X	1	FB-1 (Field Blank)
AZ08096	3/27/19	11:36	G	Water						X	1	MW-14
AZ08097	3/27/19	12:26	G	Water						X	1	MW-11
AZ08098	3/27/19	13:17	G	Water						X	1	MW-5
AZ08099	3/27/19	14:10	G	Water						X	1	MW-10
AZ08100	3/27/19	15:18	G	Water						X	1	MW-25
AZ08101	3/27/19	15:55	G	Water						X	1	EB-1 (Equipment Blank)

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Laura Midkiff	3/29/2019 10 30	Water APC	Received by:	Date/Time: 3/29/19 1630	Company: TAPGN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-168077-1
SDG Number: Greene Ash Pond 1212

Login Number: 168077
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	17.1°C, 18.1°C, 18.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-168077-1
SDG Number: Greene Ash Pond 1212

Login Number: 168077
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/04/19 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-20
West Virginia DEP	State Program	3	136	07-31-19

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-168077-1
SDG: Greene Ash Pond 1212

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	3/27/2019 12:39	Conductivity	1962.5	uS/cm
GC-AP-MW-1	3/27/2019 12:39	Depth to Water Detail	16.26	ft
GC-AP-MW-1	3/27/2019 12:39	DO	1.2	mg/L
GC-AP-MW-1	3/27/2019 12:39	Oxidation Reduction Potention	21.2	mv
GC-AP-MW-1	3/27/2019 12:39	pH	5.82	pH
GC-AP-MW-1	3/27/2019 12:39	Temperature	19.19	C
GC-AP-MW-1	3/27/2019 12:39	Turbidity	3.12	NTU
GC-AP-MW-1	3/27/2019 12:44	Conductivity	1958.2	uS/cm
GC-AP-MW-1	3/27/2019 12:44	Depth to Water Detail	16.26	ft
GC-AP-MW-1	3/27/2019 12:44	DO	0.95	mg/L
GC-AP-MW-1	3/27/2019 12:44	Oxidation Reduction Potention	21.3	mv
GC-AP-MW-1	3/27/2019 12:44	pH	5.8	pH
GC-AP-MW-1	3/27/2019 12:44	Temperature	19.1	C
GC-AP-MW-1	3/27/2019 12:44	Turbidity	2.02	NTU
GC-AP-MW-1	3/27/2019 12:49	Conductivity	1956.2	uS/cm
GC-AP-MW-1	3/27/2019 12:49	Depth to Water Detail	16.26	ft
GC-AP-MW-1	3/27/2019 12:49	DO	0.84	mg/L
GC-AP-MW-1	3/27/2019 12:49	Oxidation Reduction Potention	21.5	mv
GC-AP-MW-1	3/27/2019 12:49	pH	5.8	pH
GC-AP-MW-1	3/27/2019 12:49	Temperature	19.06	C
GC-AP-MW-1	3/27/2019 12:49	Turbidity	1.17	NTU
GC-AP-MW-1	3/27/2019 12:54	Conductivity	1953	uS/cm
GC-AP-MW-1	3/27/2019 12:54	Depth to Water Detail	16.26	ft
GC-AP-MW-1	3/27/2019 12:54	DO	0.79	mg/L
GC-AP-MW-1	3/27/2019 12:54	Oxidation Reduction Potention	21.5	mv
GC-AP-MW-1	3/27/2019 12:54	pH	5.79	pH
GC-AP-MW-1	3/27/2019 12:54	Temperature	19.06	C
GC-AP-MW-1	3/27/2019 12:54	Turbidity	1.23	NTU
GC-AP-MW-1	3/27/2019 12:59	Conductivity	1945.8	uS/cm
GC-AP-MW-1	3/27/2019 12:59	Depth to Water Detail	16.26	ft
GC-AP-MW-1	3/27/2019 12:59	DO	0.76	mg/L
GC-AP-MW-1	3/27/2019 12:59	Oxidation Reduction Potention	20.4	mv
GC-AP-MW-1	3/27/2019 12:59	pH	5.8	pH
GC-AP-MW-1	3/27/2019 12:59	Temperature	19.06	C
GC-AP-MW-1	3/27/2019 12:59	Turbidity	0.63	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	3/27/2019 13:53	Conductivity	594.8	uS/cm
GC-AP-MW-10	3/27/2019 13:53	Depth to Water Detail	5.07	ft
GC-AP-MW-10	3/27/2019 13:53	DO	0.42	mg/L
GC-AP-MW-10	3/27/2019 13:53	Oxidation Reduction Potention	-54.9	mv
GC-AP-MW-10	3/27/2019 13:53	pH	6.52	pH
GC-AP-MW-10	3/27/2019 13:53	Temperature	20.04	C
GC-AP-MW-10	3/27/2019 13:53	Turbidity	1.58	NTU
GC-AP-MW-10	3/27/2019 13:58	Conductivity	583.4	uS/cm
GC-AP-MW-10	3/27/2019 13:58	Depth to Water Detail	5.07	ft
GC-AP-MW-10	3/27/2019 13:58	DO	0.36	mg/L
GC-AP-MW-10	3/27/2019 13:58	Oxidation Reduction Potention	-54.9	mv
GC-AP-MW-10	3/27/2019 13:58	pH	6.53	pH
GC-AP-MW-10	3/27/2019 13:58	Temperature	19.95	C
GC-AP-MW-10	3/27/2019 13:58	Turbidity	0.46	NTU
GC-AP-MW-10	3/27/2019 14:03	Conductivity	586.5	uS/cm
GC-AP-MW-10	3/27/2019 14:03	Depth to Water Detail	5.08	ft
GC-AP-MW-10	3/27/2019 14:03	DO	0.36	mg/L
GC-AP-MW-10	3/27/2019 14:03	Oxidation Reduction Potention	-55.4	mv
GC-AP-MW-10	3/27/2019 14:03	pH	6.53	pH
GC-AP-MW-10	3/27/2019 14:03	Temperature	19.86	C
GC-AP-MW-10	3/27/2019 14:03	Turbidity	0.2	NTU
GC-AP-MW-10	3/27/2019 14:08	Conductivity	580.7	uS/cm
GC-AP-MW-10	3/27/2019 14:08	Depth to Water Detail	5.08	ft
GC-AP-MW-10	3/27/2019 14:08	DO	0.33	mg/L
GC-AP-MW-10	3/27/2019 14:08	Oxidation Reduction Potention	-55.2	mv
GC-AP-MW-10	3/27/2019 14:08	pH	6.53	pH
GC-AP-MW-10	3/27/2019 14:08	Temperature	19.83	C
GC-AP-MW-10	3/27/2019 14:08	Turbidity	0.16	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	3/27/2019 12:09	Conductivity	350.1	uS/cm
GC-AP-MW-11	3/27/2019 12:09	Depth to Water Detail	16.2	ft
GC-AP-MW-11	3/27/2019 12:09	DO	1	mg/L
GC-AP-MW-11	3/27/2019 12:09	Oxidation Reduction Potention	23.7	mv
GC-AP-MW-11	3/27/2019 12:09	pH	6.45	pH
GC-AP-MW-11	3/27/2019 12:09	Temperature	22.38	C
GC-AP-MW-11	3/27/2019 12:09	Turbidity	1.01	NTU
GC-AP-MW-11	3/27/2019 12:14	Conductivity	347.9	uS/cm
GC-AP-MW-11	3/27/2019 12:14	Depth to Water Detail	16.2	ft
GC-AP-MW-11	3/27/2019 12:14	DO	0.83	mg/L
GC-AP-MW-11	3/27/2019 12:14	Oxidation Reduction Potention	21.7	mv
GC-AP-MW-11	3/27/2019 12:14	pH	6.4	pH
GC-AP-MW-11	3/27/2019 12:14	Temperature	22.44	C
GC-AP-MW-11	3/27/2019 12:14	Turbidity	0.23	NTU
GC-AP-MW-11	3/27/2019 12:19	Conductivity	349	uS/cm
GC-AP-MW-11	3/27/2019 12:19	Depth to Water Detail	16.2	ft
GC-AP-MW-11	3/27/2019 12:19	DO	0.76	mg/L
GC-AP-MW-11	3/27/2019 12:19	Oxidation Reduction Potention	19.7	mv
GC-AP-MW-11	3/27/2019 12:19	pH	6.38	pH
GC-AP-MW-11	3/27/2019 12:19	Temperature	22.42	C
GC-AP-MW-11	3/27/2019 12:19	Turbidity	0.04	NTU
GC-AP-MW-11	3/27/2019 12:24	Conductivity	349.6	uS/cm
GC-AP-MW-11	3/27/2019 12:24	Depth to Water Detail	16.2	ft
GC-AP-MW-11	3/27/2019 12:24	DO	0.73	mg/L
GC-AP-MW-11	3/27/2019 12:24	Oxidation Reduction Potention	19.3	mv
GC-AP-MW-11	3/27/2019 12:24	pH	6.37	pH
GC-AP-MW-11	3/27/2019 12:24	Temperature	22.44	C
GC-AP-MW-11	3/27/2019 12:24	Turbidity	0.04	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	3/26/2019 14:54	Conductivity	380.9	uS/cm
GC-AP-MW-12	3/26/2019 14:54	Depth to Water Detail	17.39	ft
GC-AP-MW-12	3/26/2019 14:54	DO	1.05	mg/L
GC-AP-MW-12	3/26/2019 14:54	Oxidation Reduction Potention	68.3	mv
GC-AP-MW-12	3/26/2019 14:54	pH	6.83	pH
GC-AP-MW-12	3/26/2019 14:54	Temperature	18.93	C
GC-AP-MW-12	3/26/2019 14:54	Turbidity	0.13	NTU
GC-AP-MW-12	3/26/2019 14:59	Conductivity	376.8	uS/cm
GC-AP-MW-12	3/26/2019 14:59	Depth to Water Detail	17.39	ft
GC-AP-MW-12	3/26/2019 14:59	DO	0.88	mg/L
GC-AP-MW-12	3/26/2019 14:59	Oxidation Reduction Potention	62.8	mv
GC-AP-MW-12	3/26/2019 14:59	pH	6.89	pH
GC-AP-MW-12	3/26/2019 14:59	Temperature	18.95	C
GC-AP-MW-12	3/26/2019 14:59	Turbidity	0.17	NTU
GC-AP-MW-12	3/26/2019 15:04	Conductivity	376.4	uS/cm
GC-AP-MW-12	3/26/2019 15:04	Depth to Water Detail	17.39	ft
GC-AP-MW-12	3/26/2019 15:04	DO	0.8	mg/L
GC-AP-MW-12	3/26/2019 15:04	Oxidation Reduction Potention	60.1	mv
GC-AP-MW-12	3/26/2019 15:04	pH	6.93	pH
GC-AP-MW-12	3/26/2019 15:04	Temperature	19.05	C
GC-AP-MW-12	3/26/2019 15:04	Turbidity	0.25	NTU
GC-AP-MW-12	3/26/2019 15:09	Conductivity	371.1	uS/cm
GC-AP-MW-12	3/26/2019 15:09	Depth to Water Detail	17.39	ft
GC-AP-MW-12	3/26/2019 15:09	DO	0.75	mg/L
GC-AP-MW-12	3/26/2019 15:09	Oxidation Reduction Potention	59.2	mv
GC-AP-MW-12	3/26/2019 15:09	pH	6.95	pH
GC-AP-MW-12	3/26/2019 15:09	Temperature	18.94	C
GC-AP-MW-12	3/26/2019 15:09	Turbidity	0.18	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	3/26/2019 14:03	Conductivity	316.8	uS/cm
GC-AP-MW-13	3/26/2019 14:03	Depth to Water Detail	19.37	ft
GC-AP-MW-13	3/26/2019 14:03	DO	4.57	mg/L
GC-AP-MW-13	3/26/2019 14:03	Oxidation Reduction Potention	102.4	mv
GC-AP-MW-13	3/26/2019 14:03	pH	6.49	pH
GC-AP-MW-13	3/26/2019 14:03	Temperature	16.04	C
GC-AP-MW-13	3/26/2019 14:03	Turbidity	0.47	NTU
GC-AP-MW-13	3/26/2019 14:08	Conductivity	319.9	uS/cm
GC-AP-MW-13	3/26/2019 14:08	Depth to Water Detail	19.37	ft
GC-AP-MW-13	3/26/2019 14:08	DO	4.16	mg/L
GC-AP-MW-13	3/26/2019 14:08	Oxidation Reduction Potention	100	mv
GC-AP-MW-13	3/26/2019 14:08	pH	6.51	pH
GC-AP-MW-13	3/26/2019 14:08	Temperature	15.98	C
GC-AP-MW-13	3/26/2019 14:08	Turbidity	0.43	NTU
GC-AP-MW-13	3/26/2019 14:13	Conductivity	316.7	uS/cm
GC-AP-MW-13	3/26/2019 14:13	Depth to Water Detail	19.37	ft
GC-AP-MW-13	3/26/2019 14:13	DO	3.97	mg/L
GC-AP-MW-13	3/26/2019 14:13	Oxidation Reduction Potention	98.2	mv
GC-AP-MW-13	3/26/2019 14:13	pH	6.51	pH
GC-AP-MW-13	3/26/2019 14:13	Temperature	15.98	C
GC-AP-MW-13	3/26/2019 14:13	Turbidity	0.25	NTU
GC-AP-MW-13	3/26/2019 14:18	Conductivity	319.3	uS/cm
GC-AP-MW-13	3/26/2019 14:18	Depth to Water Detail	19.37	ft
GC-AP-MW-13	3/26/2019 14:18	DO	4.01	mg/L
GC-AP-MW-13	3/26/2019 14:18	Oxidation Reduction Potention	95.7	mv
GC-AP-MW-13	3/26/2019 14:18	pH	6.54	pH
GC-AP-MW-13	3/26/2019 14:18	Temperature	15.97	C
GC-AP-MW-13	3/26/2019 14:18	Turbidity	0.27	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/27/2019 9:43	Conductivity	1077.2	uS/cm
GC-AP-MW-14	3/27/2019 9:43	Depth to Water Detail	6.56	ft
GC-AP-MW-14	3/27/2019 9:43	DO	0.67	mg/L
GC-AP-MW-14	3/27/2019 9:43	Oxidation Reduction Potention	-19.7	mv
GC-AP-MW-14	3/27/2019 9:43	pH	6.32	pH
GC-AP-MW-14	3/27/2019 9:43	Temperature	20.03	C
GC-AP-MW-14	3/27/2019 9:43	Turbidity	27.5	NTU
GC-AP-MW-14	3/27/2019 9:48	Conductivity	1084.2	uS/cm
GC-AP-MW-14	3/27/2019 9:48	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 9:48	DO	0.54	mg/L
GC-AP-MW-14	3/27/2019 9:48	Oxidation Reduction Potention	-24.7	mv
GC-AP-MW-14	3/27/2019 9:48	pH	6.36	pH
GC-AP-MW-14	3/27/2019 9:48	Temperature	20.21	C
GC-AP-MW-14	3/27/2019 9:48	Turbidity	21.8	NTU
GC-AP-MW-14	3/27/2019 9:53	Conductivity	1109.2	uS/cm
GC-AP-MW-14	3/27/2019 9:53	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 9:53	DO	0.5	mg/L
GC-AP-MW-14	3/27/2019 9:53	Oxidation Reduction Potention	-28.8	mv
GC-AP-MW-14	3/27/2019 9:53	pH	6.37	pH
GC-AP-MW-14	3/27/2019 9:53	Temperature	20.22	C
GC-AP-MW-14	3/27/2019 9:53	Turbidity	17.1	NTU
GC-AP-MW-14	3/27/2019 9:58	Conductivity	1114.3	uS/cm
GC-AP-MW-14	3/27/2019 9:58	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 9:58	DO	0.46	mg/L
GC-AP-MW-14	3/27/2019 9:58	Oxidation Reduction Potention	-31.5	mv
GC-AP-MW-14	3/27/2019 9:58	pH	6.38	pH
GC-AP-MW-14	3/27/2019 9:58	Temperature	20.27	C
GC-AP-MW-14	3/27/2019 9:58	Turbidity	15.8	NTU
GC-AP-MW-14	3/27/2019 10:03	Conductivity	1106.2	uS/cm
GC-AP-MW-14	3/27/2019 10:03	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:03	DO	0.43	mg/L
GC-AP-MW-14	3/27/2019 10:03	Oxidation Reduction Potention	-32	mv
GC-AP-MW-14	3/27/2019 10:03	pH	6.39	pH
GC-AP-MW-14	3/27/2019 10:03	Temperature	20.2	C
GC-AP-MW-14	3/27/2019 10:03	Turbidity	16.4	NTU
GC-AP-MW-14	3/27/2019 10:08	Conductivity	1107.2	uS/cm
GC-AP-MW-14	3/27/2019 10:08	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:08	DO	0.44	mg/L
GC-AP-MW-14	3/27/2019 10:08	Oxidation Reduction Potention	-34.2	mv
GC-AP-MW-14	3/27/2019 10:08	pH	6.39	pH
GC-AP-MW-14	3/27/2019 10:08	Temperature	20.18	C
GC-AP-MW-14	3/27/2019 10:08	Turbidity	13.2	NTU
GC-AP-MW-14	3/27/2019 10:13	Conductivity	1127.2	uS/cm
GC-AP-MW-14	3/27/2019 10:13	Depth to Water Detail	6.57	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/27/2019 10:13	DO	0.43	mg/L
GC-AP-MW-14	3/27/2019 10:13	Oxidation Reduction Potention	-33.3	mv
GC-AP-MW-14	3/27/2019 10:13	pH	6.39	pH
GC-AP-MW-14	3/27/2019 10:13	Temperature	20.28	C
GC-AP-MW-14	3/27/2019 10:13	Turbidity	14.4	NTU
GC-AP-MW-14	3/27/2019 10:18	Conductivity	1123.1	uS/cm
GC-AP-MW-14	3/27/2019 10:18	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:18	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 10:18	Oxidation Reduction Potention	-33.9	mv
GC-AP-MW-14	3/27/2019 10:18	pH	6.39	pH
GC-AP-MW-14	3/27/2019 10:18	Temperature	20.35	C
GC-AP-MW-14	3/27/2019 10:18	Turbidity	12.3	NTU
GC-AP-MW-14	3/27/2019 10:23	Conductivity	1137.3	uS/cm
GC-AP-MW-14	3/27/2019 10:23	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:23	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 10:23	Oxidation Reduction Potention	-34	mv
GC-AP-MW-14	3/27/2019 10:23	pH	6.39	pH
GC-AP-MW-14	3/27/2019 10:23	Temperature	20.32	C
GC-AP-MW-14	3/27/2019 10:23	Turbidity	11.4	NTU
GC-AP-MW-14	3/27/2019 10:28	Conductivity	1109.7	uS/cm
GC-AP-MW-14	3/27/2019 10:28	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:28	DO	0.4	mg/L
GC-AP-MW-14	3/27/2019 10:28	Oxidation Reduction Potention	-36.4	mv
GC-AP-MW-14	3/27/2019 10:28	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:28	Temperature	20.43	C
GC-AP-MW-14	3/27/2019 10:28	Turbidity	11.6	NTU
GC-AP-MW-14	3/27/2019 10:33	Conductivity	1103.2	uS/cm
GC-AP-MW-14	3/27/2019 10:33	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:33	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 10:33	Oxidation Reduction Potention	-34.9	mv
GC-AP-MW-14	3/27/2019 10:33	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:33	Temperature	20.49	C
GC-AP-MW-14	3/27/2019 10:33	Turbidity	11	NTU
GC-AP-MW-14	3/27/2019 10:38	Conductivity	1118.5	uS/cm
GC-AP-MW-14	3/27/2019 10:38	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:38	DO	0.38	mg/L
GC-AP-MW-14	3/27/2019 10:38	Oxidation Reduction Potention	-36.7	mv
GC-AP-MW-14	3/27/2019 10:38	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:38	Temperature	20.44	C
GC-AP-MW-14	3/27/2019 10:38	Turbidity	10.89	NTU
GC-AP-MW-14	3/27/2019 10:43	Conductivity	1105.6	uS/cm
GC-AP-MW-14	3/27/2019 10:43	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:43	DO	0.39	mg/L
GC-AP-MW-14	3/27/2019 10:43	Oxidation Reduction Potention	-36	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/27/2019 10:43	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:43	Temperature	20.62	C
GC-AP-MW-14	3/27/2019 10:43	Turbidity	11.78	NTU
GC-AP-MW-14	3/27/2019 10:48	Conductivity	1111.6	uS/cm
GC-AP-MW-14	3/27/2019 10:48	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:48	DO	0.4	mg/L
GC-AP-MW-14	3/27/2019 10:48	Oxidation Reduction Potention	-37.4	mv
GC-AP-MW-14	3/27/2019 10:48	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:48	Temperature	20.42	C
GC-AP-MW-14	3/27/2019 10:48	Turbidity	10.52	NTU
GC-AP-MW-14	3/27/2019 10:53	Conductivity	1135.3	uS/cm
GC-AP-MW-14	3/27/2019 10:53	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:53	DO	0.39	mg/L
GC-AP-MW-14	3/27/2019 10:53	Oxidation Reduction Potention	-38.1	mv
GC-AP-MW-14	3/27/2019 10:53	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:53	Temperature	20.48	C
GC-AP-MW-14	3/27/2019 10:53	Turbidity	9.36	NTU
GC-AP-MW-14	3/27/2019 10:58	Conductivity	1118.7	uS/cm
GC-AP-MW-14	3/27/2019 10:58	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 10:58	DO	0.42	mg/L
GC-AP-MW-14	3/27/2019 10:58	Oxidation Reduction Potention	-37	mv
GC-AP-MW-14	3/27/2019 10:58	pH	6.4	pH
GC-AP-MW-14	3/27/2019 10:58	Temperature	20.71	C
GC-AP-MW-14	3/27/2019 10:58	Turbidity	8.59	NTU
GC-AP-MW-14	3/27/2019 11:03	Conductivity	1123.3	uS/cm
GC-AP-MW-14	3/27/2019 11:03	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:03	DO	0.42	mg/L
GC-AP-MW-14	3/27/2019 11:03	Oxidation Reduction Potention	-37.8	mv
GC-AP-MW-14	3/27/2019 11:03	pH	6.4	pH
GC-AP-MW-14	3/27/2019 11:03	Temperature	20.53	C
GC-AP-MW-14	3/27/2019 11:03	Turbidity	7.76	NTU
GC-AP-MW-14	3/27/2019 11:08	Conductivity	1122.8	uS/cm
GC-AP-MW-14	3/27/2019 11:08	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:08	DO	0.42	mg/L
GC-AP-MW-14	3/27/2019 11:08	Oxidation Reduction Potention	-38.6	mv
GC-AP-MW-14	3/27/2019 11:08	pH	6.41	pH
GC-AP-MW-14	3/27/2019 11:08	Temperature	20.67	C
GC-AP-MW-14	3/27/2019 11:08	Turbidity	6.74	NTU
GC-AP-MW-14	3/27/2019 11:13	Conductivity	1126.8	uS/cm
GC-AP-MW-14	3/27/2019 11:13	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:13	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 11:13	Oxidation Reduction Potention	-36.8	mv
GC-AP-MW-14	3/27/2019 11:13	pH	6.4	pH
GC-AP-MW-14	3/27/2019 11:13	Temperature	20.53	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/27/2019 11:13	Turbidity	7.85	NTU
GC-AP-MW-14	3/27/2019 11:18	Conductivity	1128	uS/cm
GC-AP-MW-14	3/27/2019 11:18	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:18	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 11:18	Oxidation Reduction Potention	-37.6	mv
GC-AP-MW-14	3/27/2019 11:18	pH	6.4	pH
GC-AP-MW-14	3/27/2019 11:18	Temperature	20.71	C
GC-AP-MW-14	3/27/2019 11:18	Turbidity	6.66	NTU
GC-AP-MW-14	3/27/2019 11:23	Conductivity	1121.9	uS/cm
GC-AP-MW-14	3/27/2019 11:23	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:23	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 11:23	Oxidation Reduction Potention	-38.6	mv
GC-AP-MW-14	3/27/2019 11:23	pH	6.4	pH
GC-AP-MW-14	3/27/2019 11:23	Temperature	20.63	C
GC-AP-MW-14	3/27/2019 11:23	Turbidity	5.57	NTU
GC-AP-MW-14	3/27/2019 11:29	Conductivity	1128.6	uS/cm
GC-AP-MW-14	3/27/2019 11:29	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:29	DO	0.4	mg/L
GC-AP-MW-14	3/27/2019 11:29	Oxidation Reduction Potention	-39.6	mv
GC-AP-MW-14	3/27/2019 11:29	pH	6.4	pH
GC-AP-MW-14	3/27/2019 11:29	Temperature	20.62	C
GC-AP-MW-14	3/27/2019 11:29	Turbidity	5.4	NTU
GC-AP-MW-14	3/27/2019 11:34	Conductivity	1121.5	uS/cm
GC-AP-MW-14	3/27/2019 11:34	Depth to Water Detail	6.57	ft
GC-AP-MW-14	3/27/2019 11:34	DO	0.41	mg/L
GC-AP-MW-14	3/27/2019 11:34	Oxidation Reduction Potention	-37.5	mv
GC-AP-MW-14	3/27/2019 11:34	pH	6.41	pH
GC-AP-MW-14	3/27/2019 11:34	Temperature	20.66	C
GC-AP-MW-14	3/27/2019 11:34	Turbidity	4.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	3/26/2019 13:02	Conductivity	494.1	uS/cm
GC-AP-MW-15	3/26/2019 13:02	Depth to Water Detail	15.37	ft
GC-AP-MW-15	3/26/2019 13:02	DO	1.15	mg/L
GC-AP-MW-15	3/26/2019 13:02	Oxidation Reduction Potention	83.4	mv
GC-AP-MW-15	3/26/2019 13:02	pH	6.17	pH
GC-AP-MW-15	3/26/2019 13:02	Temperature	19.07	C
GC-AP-MW-15	3/26/2019 13:02	Turbidity	0.53	NTU
GC-AP-MW-15	3/26/2019 13:07	Conductivity	497.8	uS/cm
GC-AP-MW-15	3/26/2019 13:07	Depth to Water Detail	15.37	ft
GC-AP-MW-15	3/26/2019 13:07	DO	0.98	mg/L
GC-AP-MW-15	3/26/2019 13:07	Oxidation Reduction Potention	68.7	mv
GC-AP-MW-15	3/26/2019 13:07	pH	6.12	pH
GC-AP-MW-15	3/26/2019 13:07	Temperature	19.06	C
GC-AP-MW-15	3/26/2019 13:07	Turbidity	0.54	NTU
GC-AP-MW-15	3/26/2019 13:12	Conductivity	505	uS/cm
GC-AP-MW-15	3/26/2019 13:12	Depth to Water Detail	15.37	ft
GC-AP-MW-15	3/26/2019 13:12	DO	0.88	mg/L
GC-AP-MW-15	3/26/2019 13:12	Oxidation Reduction Potention	63.4	mv
GC-AP-MW-15	3/26/2019 13:12	pH	6.11	pH
GC-AP-MW-15	3/26/2019 13:12	Temperature	19.01	C
GC-AP-MW-15	3/26/2019 13:12	Turbidity	0.45	NTU
GC-AP-MW-15	3/26/2019 13:17	Conductivity	501.9	uS/cm
GC-AP-MW-15	3/26/2019 13:17	Depth to Water Detail	15.37	ft
GC-AP-MW-15	3/26/2019 13:17	DO	0.81	mg/L
GC-AP-MW-15	3/26/2019 13:17	Oxidation Reduction Potention	60.8	mv
GC-AP-MW-15	3/26/2019 13:17	pH	6.1	pH
GC-AP-MW-15	3/26/2019 13:17	Temperature	19.06	C
GC-AP-MW-15	3/26/2019 13:17	Turbidity	0.18	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	3/26/2019 11:49	Conductivity	775.7	uS/cm
GC-AP-MW-16	3/26/2019 11:49	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 11:49	DO	0.33	mg/L
GC-AP-MW-16	3/26/2019 11:49	Oxidation Reduction Potention	-14.8	mv
GC-AP-MW-16	3/26/2019 11:49	pH	6.35	pH
GC-AP-MW-16	3/26/2019 11:49	Temperature	19.28	C
GC-AP-MW-16	3/26/2019 11:49	Turbidity	24.8	NTU
GC-AP-MW-16	3/26/2019 11:54	Conductivity	765.3	uS/cm
GC-AP-MW-16	3/26/2019 11:54	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 11:54	DO	0.29	mg/L
GC-AP-MW-16	3/26/2019 11:54	Oxidation Reduction Potention	-15.2	mv
GC-AP-MW-16	3/26/2019 11:54	pH	6.34	pH
GC-AP-MW-16	3/26/2019 11:54	Temperature	19.33	C
GC-AP-MW-16	3/26/2019 11:54	Turbidity	16.9	NTU
GC-AP-MW-16	3/26/2019 11:59	Conductivity	761.7	uS/cm
GC-AP-MW-16	3/26/2019 11:59	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 11:59	DO	0.27	mg/L
GC-AP-MW-16	3/26/2019 11:59	Oxidation Reduction Potention	-15.7	mv
GC-AP-MW-16	3/26/2019 11:59	pH	6.34	pH
GC-AP-MW-16	3/26/2019 11:59	Temperature	19.32	C
GC-AP-MW-16	3/26/2019 11:59	Turbidity	14.08	NTU
GC-AP-MW-16	3/26/2019 12:04	Conductivity	757.9	uS/cm
GC-AP-MW-16	3/26/2019 12:04	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 12:04	DO	0.27	mg/L
GC-AP-MW-16	3/26/2019 12:04	Oxidation Reduction Potention	-16.2	mv
GC-AP-MW-16	3/26/2019 12:04	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:04	Temperature	19.33	C
GC-AP-MW-16	3/26/2019 12:04	Turbidity	11.59	NTU
GC-AP-MW-16	3/26/2019 12:09	Conductivity	757.4	uS/cm
GC-AP-MW-16	3/26/2019 12:09	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 12:09	DO	0.25	mg/L
GC-AP-MW-16	3/26/2019 12:09	Oxidation Reduction Potention	-16.9	mv
GC-AP-MW-16	3/26/2019 12:09	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:09	Temperature	19.37	C
GC-AP-MW-16	3/26/2019 12:09	Turbidity	8.78	NTU
GC-AP-MW-16	3/26/2019 12:14	Conductivity	761.3	uS/cm
GC-AP-MW-16	3/26/2019 12:14	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 12:14	DO	0.25	mg/L
GC-AP-MW-16	3/26/2019 12:14	Oxidation Reduction Potention	-17	mv
GC-AP-MW-16	3/26/2019 12:14	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:14	Temperature	19.4	C
GC-AP-MW-16	3/26/2019 12:14	Turbidity	6.6	NTU
GC-AP-MW-16	3/26/2019 12:19	Conductivity	763.6	uS/cm
GC-AP-MW-16	3/26/2019 12:19	Depth to Water Detail	31.91	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	3/26/2019 12:19	DO	0.25	mg/L
GC-AP-MW-16	3/26/2019 12:19	Oxidation Reduction Potention	-17.5	mv
GC-AP-MW-16	3/26/2019 12:19	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:19	Temperature	19.41	C
GC-AP-MW-16	3/26/2019 12:19	Turbidity	5.46	NTU
GC-AP-MW-16	3/26/2019 12:24	Conductivity	761.7	uS/cm
GC-AP-MW-16	3/26/2019 12:24	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 12:24	DO	0.24	mg/L
GC-AP-MW-16	3/26/2019 12:24	Oxidation Reduction Potention	-17.3	mv
GC-AP-MW-16	3/26/2019 12:24	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:24	Temperature	19.41	C
GC-AP-MW-16	3/26/2019 12:24	Turbidity	5.14	NTU
GC-AP-MW-16	3/26/2019 12:29	Conductivity	761.2	uS/cm
GC-AP-MW-16	3/26/2019 12:29	Depth to Water Detail	31.91	ft
GC-AP-MW-16	3/26/2019 12:29	DO	0.24	mg/L
GC-AP-MW-16	3/26/2019 12:29	Oxidation Reduction Potention	-17.8	mv
GC-AP-MW-16	3/26/2019 12:29	pH	6.34	pH
GC-AP-MW-16	3/26/2019 12:29	Temperature	19.46	C
GC-AP-MW-16	3/26/2019 12:29	Turbidity	4.8	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	3/26/2019 10:54	Conductivity	839.2	uS/cm
GC-AP-MW-17	3/26/2019 10:54	Depth to Water Detail	28.45	ft
GC-AP-MW-17	3/26/2019 10:54	DO	0.28	mg/L
GC-AP-MW-17	3/26/2019 10:54	Oxidation Reduction Potention	-49.8	mv
GC-AP-MW-17	3/26/2019 10:54	pH	6.42	pH
GC-AP-MW-17	3/26/2019 10:54	Temperature	19.53	C
GC-AP-MW-17	3/26/2019 10:54	Turbidity	7.07	NTU
GC-AP-MW-17	3/26/2019 10:59	Conductivity	845.3	uS/cm
GC-AP-MW-17	3/26/2019 10:59	Depth to Water Detail	28.45	ft
GC-AP-MW-17	3/26/2019 10:59	DO	0.25	mg/L
GC-AP-MW-17	3/26/2019 10:59	Oxidation Reduction Potention	-57.6	mv
GC-AP-MW-17	3/26/2019 10:59	pH	6.46	pH
GC-AP-MW-17	3/26/2019 10:59	Temperature	19.55	C
GC-AP-MW-17	3/26/2019 10:59	Turbidity	4.14	NTU
GC-AP-MW-17	3/26/2019 11:04	Conductivity	849.2	uS/cm
GC-AP-MW-17	3/26/2019 11:04	Depth to Water Detail	28.45	ft
GC-AP-MW-17	3/26/2019 11:04	DO	0.24	mg/L
GC-AP-MW-17	3/26/2019 11:04	Oxidation Reduction Potention	-61.3	mv
GC-AP-MW-17	3/26/2019 11:04	pH	6.49	pH
GC-AP-MW-17	3/26/2019 11:04	Temperature	19.59	C
GC-AP-MW-17	3/26/2019 11:04	Turbidity	4.23	NTU
GC-AP-MW-17	3/26/2019 11:09	Conductivity	850.9	uS/cm
GC-AP-MW-17	3/26/2019 11:09	Depth to Water Detail	28.45	ft
GC-AP-MW-17	3/26/2019 11:09	DO	0.23	mg/L
GC-AP-MW-17	3/26/2019 11:09	Oxidation Reduction Potention	-63.6	mv
GC-AP-MW-17	3/26/2019 11:09	pH	6.52	pH
GC-AP-MW-17	3/26/2019 11:09	Temperature	19.65	C
GC-AP-MW-17	3/26/2019 11:09	Turbidity	4.14	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	3/26/2019 9:23	Conductivity	718	uS/cm
GC-AP-MW-18	3/26/2019 9:23	Depth to Water Detail	27.98	ft
GC-AP-MW-18	3/26/2019 9:23	DO	0.29	mg/L
GC-AP-MW-18	3/26/2019 9:23	Oxidation Reduction Potention	-2.7	mv
GC-AP-MW-18	3/26/2019 9:23	pH	6.25	pH
GC-AP-MW-18	3/26/2019 9:23	Temperature	19.43	C
GC-AP-MW-18	3/26/2019 9:23	Turbidity	3.96	NTU
GC-AP-MW-18	3/26/2019 9:28	Conductivity	720.8	uS/cm
GC-AP-MW-18	3/26/2019 9:28	Depth to Water Detail	27.98	ft
GC-AP-MW-18	3/26/2019 9:28	DO	0.25	mg/L
GC-AP-MW-18	3/26/2019 9:28	Oxidation Reduction Potention	-5.2	mv
GC-AP-MW-18	3/26/2019 9:28	pH	6.28	pH
GC-AP-MW-18	3/26/2019 9:28	Temperature	19.45	C
GC-AP-MW-18	3/26/2019 9:28	Turbidity	2.98	NTU
GC-AP-MW-18	3/26/2019 9:33	Conductivity	726.4	uS/cm
GC-AP-MW-18	3/26/2019 9:33	Depth to Water Detail	27.98	ft
GC-AP-MW-18	3/26/2019 9:33	DO	0.23	mg/L
GC-AP-MW-18	3/26/2019 9:33	Oxidation Reduction Potention	-6.8	mv
GC-AP-MW-18	3/26/2019 9:33	pH	6.29	pH
GC-AP-MW-18	3/26/2019 9:33	Temperature	19.46	C
GC-AP-MW-18	3/26/2019 9:33	Turbidity	2.06	NTU
GC-AP-MW-18	3/26/2019 9:38	Conductivity	730.3	uS/cm
GC-AP-MW-18	3/26/2019 9:38	Depth to Water Detail	27.98	ft
GC-AP-MW-18	3/26/2019 9:38	DO	0.22	mg/L
GC-AP-MW-18	3/26/2019 9:38	Oxidation Reduction Potention	-7.9	mv
GC-AP-MW-18	3/26/2019 9:38	pH	6.3	pH
GC-AP-MW-18	3/26/2019 9:38	Temperature	19.46	C
GC-AP-MW-18	3/26/2019 9:38	Turbidity	1.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	3/27/2019 13:30	Conductivity	855.4	uS/cm
GC-AP-MW-2	3/27/2019 13:30	Depth to Water Detail	7.31	ft
GC-AP-MW-2	3/27/2019 13:30	DO	0.68	mg/L
GC-AP-MW-2	3/27/2019 13:30	Oxidation Reduction Potention	6	mv
GC-AP-MW-2	3/27/2019 13:30	pH	6.11	pH
GC-AP-MW-2	3/27/2019 13:30	Temperature	20	C
GC-AP-MW-2	3/27/2019 13:30	Turbidity	4.56	NTU
GC-AP-MW-2	3/27/2019 13:35	Conductivity	851.3	uS/cm
GC-AP-MW-2	3/27/2019 13:35	Depth to Water Detail	7.33	ft
GC-AP-MW-2	3/27/2019 13:35	DO	0.58	mg/L
GC-AP-MW-2	3/27/2019 13:35	Oxidation Reduction Potention	5.4	mv
GC-AP-MW-2	3/27/2019 13:35	pH	6.1	pH
GC-AP-MW-2	3/27/2019 13:35	Temperature	19.99	C
GC-AP-MW-2	3/27/2019 13:35	Turbidity	1.8	NTU
GC-AP-MW-2	3/27/2019 13:40	Conductivity	854	uS/cm
GC-AP-MW-2	3/27/2019 13:40	Depth to Water Detail	7.35	ft
GC-AP-MW-2	3/27/2019 13:40	DO	0.52	mg/L
GC-AP-MW-2	3/27/2019 13:40	Oxidation Reduction Potention	5.6	mv
GC-AP-MW-2	3/27/2019 13:40	pH	6.1	pH
GC-AP-MW-2	3/27/2019 13:40	Temperature	19.99	C
GC-AP-MW-2	3/27/2019 13:40	Turbidity	1.76	NTU
GC-AP-MW-2	3/27/2019 13:45	Conductivity	810.7	uS/cm
GC-AP-MW-2	3/27/2019 13:45	Depth to Water Detail	7.36	ft
GC-AP-MW-2	3/27/2019 13:45	DO	0.49	mg/L
GC-AP-MW-2	3/27/2019 13:45	Oxidation Reduction Potention	9.9	mv
GC-AP-MW-2	3/27/2019 13:45	pH	6.08	pH
GC-AP-MW-2	3/27/2019 13:45	Temperature	20.04	C
GC-AP-MW-2	3/27/2019 13:45	Turbidity	1.74	NTU
GC-AP-MW-2	3/27/2019 13:50	Conductivity	814.7	uS/cm
GC-AP-MW-2	3/27/2019 13:50	Depth to Water Detail	7.36	ft
GC-AP-MW-2	3/27/2019 13:50	DO	0.47	mg/L
GC-AP-MW-2	3/27/2019 13:50	Oxidation Reduction Potention	9.1	mv
GC-AP-MW-2	3/27/2019 13:50	pH	6.07	pH
GC-AP-MW-2	3/27/2019 13:50	Temperature	19.99	C
GC-AP-MW-2	3/27/2019 13:50	Turbidity	1.73	NTU
GC-AP-MW-2	3/27/2019 13:55	Conductivity	805.1	uS/cm
GC-AP-MW-2	3/27/2019 13:55	Depth to Water Detail	7.36	ft
GC-AP-MW-2	3/27/2019 13:55	DO	0.46	mg/L
GC-AP-MW-2	3/27/2019 13:55	Oxidation Reduction Potention	9.9	mv
GC-AP-MW-2	3/27/2019 13:55	pH	6.06	pH
GC-AP-MW-2	3/27/2019 13:55	Temperature	20.06	C
GC-AP-MW-2	3/27/2019 13:55	Turbidity	1.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	3/26/2019 15:37	Conductivity	367.5	uS/cm
GC-AP-MW-21	3/26/2019 15:37	Depth to Water Detail	19.73	ft
GC-AP-MW-21	3/26/2019 15:37	DO	0.33	mg/L
GC-AP-MW-21	3/26/2019 15:37	Oxidation Reduction Potention	54.6	mv
GC-AP-MW-21	3/26/2019 15:37	pH	6.9	pH
GC-AP-MW-21	3/26/2019 15:37	Temperature	23.83	C
GC-AP-MW-21	3/26/2019 15:37	Turbidity	1.84	NTU
GC-AP-MW-21	3/26/2019 15:42	Conductivity	368.6	uS/cm
GC-AP-MW-21	3/26/2019 15:42	Depth to Water Detail	19.73	ft
GC-AP-MW-21	3/26/2019 15:42	DO	0.28	mg/L
GC-AP-MW-21	3/26/2019 15:42	Oxidation Reduction Potention	59.7	mv
GC-AP-MW-21	3/26/2019 15:42	pH	6.87	pH
GC-AP-MW-21	3/26/2019 15:42	Temperature	23.41	C
GC-AP-MW-21	3/26/2019 15:42	Turbidity	0.41	NTU
GC-AP-MW-21	3/26/2019 15:47	Conductivity	366	uS/cm
GC-AP-MW-21	3/26/2019 15:47	Depth to Water Detail	19.73	ft
GC-AP-MW-21	3/26/2019 15:47	DO	0.25	mg/L
GC-AP-MW-21	3/26/2019 15:47	Oxidation Reduction Potention	60.6	mv
GC-AP-MW-21	3/26/2019 15:47	pH	6.85	pH
GC-AP-MW-21	3/26/2019 15:47	Temperature	23.48	C
GC-AP-MW-21	3/26/2019 15:47	Turbidity	0.61	NTU
GC-AP-MW-21	3/26/2019 15:52	Conductivity	363.5	uS/cm
GC-AP-MW-21	3/26/2019 15:52	Depth to Water Detail	19.73	ft
GC-AP-MW-21	3/26/2019 15:52	DO	0.24	mg/L
GC-AP-MW-21	3/26/2019 15:52	Oxidation Reduction Potention	59.6	mv
GC-AP-MW-21	3/26/2019 15:52	pH	6.84	pH
GC-AP-MW-21	3/26/2019 15:52	Temperature	23.38	C
GC-AP-MW-21	3/26/2019 15:52	Turbidity	0.22	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	3/26/2019 14:14	Conductivity	189.2	uS/cm
GC-AP-MW-23	3/26/2019 14:14	Depth to Water Detail	13.49	ft
GC-AP-MW-23	3/26/2019 14:14	DO	5.46	mg/L
GC-AP-MW-23	3/26/2019 14:14	Oxidation Reduction Potention	187.6	mv
GC-AP-MW-23	3/26/2019 14:14	pH	6.49	pH
GC-AP-MW-23	3/26/2019 14:14	Temperature	17.67	C
GC-AP-MW-23	3/26/2019 14:14	Turbidity	3.55	NTU
GC-AP-MW-23	3/26/2019 14:19	Conductivity	185.7	uS/cm
GC-AP-MW-23	3/26/2019 14:19	Depth to Water Detail	13.51	ft
GC-AP-MW-23	3/26/2019 14:19	DO	5.58	mg/L
GC-AP-MW-23	3/26/2019 14:19	Oxidation Reduction Potention	182.7	mv
GC-AP-MW-23	3/26/2019 14:19	pH	6.47	pH
GC-AP-MW-23	3/26/2019 14:19	Temperature	17.63	C
GC-AP-MW-23	3/26/2019 14:19	Turbidity	2.4	NTU
GC-AP-MW-23	3/26/2019 14:24	Conductivity	182.5	uS/cm
GC-AP-MW-23	3/26/2019 14:24	Depth to Water Detail	13.51	ft
GC-AP-MW-23	3/26/2019 14:24	DO	5.73	mg/L
GC-AP-MW-23	3/26/2019 14:24	Oxidation Reduction Potention	181	mv
GC-AP-MW-23	3/26/2019 14:24	pH	6.47	pH
GC-AP-MW-23	3/26/2019 14:24	Temperature	17.63	C
GC-AP-MW-23	3/26/2019 14:24	Turbidity	2.89	NTU
GC-AP-MW-23	3/26/2019 14:29	Conductivity	179.5	uS/cm
GC-AP-MW-23	3/26/2019 14:29	Depth to Water Detail	13.51	ft
GC-AP-MW-23	3/26/2019 14:29	DO	5.81	mg/L
GC-AP-MW-23	3/26/2019 14:29	Oxidation Reduction Potention	180.1	mv
GC-AP-MW-23	3/26/2019 14:29	pH	6.46	pH
GC-AP-MW-23	3/26/2019 14:29	Temperature	17.54	C
GC-AP-MW-23	3/26/2019 14:29	Turbidity	1.32	NTU
GC-AP-MW-23	3/26/2019 14:34	Conductivity	177.7	uS/cm
GC-AP-MW-23	3/26/2019 14:34	Depth to Water Detail	13.51	ft
GC-AP-MW-23	3/26/2019 14:34	DO	5.81	mg/L
GC-AP-MW-23	3/26/2019 14:34	Oxidation Reduction Potention	179	mv
GC-AP-MW-23	3/26/2019 14:34	pH	6.46	pH
GC-AP-MW-23	3/26/2019 14:34	Temperature	17.68	C
GC-AP-MW-23	3/26/2019 14:34	Turbidity	1.12	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	3/26/2019 15:09	Conductivity	282.1	uS/cm
GC-AP-MW-24	3/26/2019 15:09	Depth to Water Detail	17	ft
GC-AP-MW-24	3/26/2019 15:09	DO	4.5	mg/L
GC-AP-MW-24	3/26/2019 15:09	Oxidation Reduction Potention	207	mv
GC-AP-MW-24	3/26/2019 15:09	pH	5.28	pH
GC-AP-MW-24	3/26/2019 15:09	Temperature	18.98	C
GC-AP-MW-24	3/26/2019 15:09	Turbidity	1.07	NTU
GC-AP-MW-24	3/26/2019 15:14	Conductivity	283.9	uS/cm
GC-AP-MW-24	3/26/2019 15:14	Depth to Water Detail	17.01	ft
GC-AP-MW-24	3/26/2019 15:14	DO	4.41	mg/L
GC-AP-MW-24	3/26/2019 15:14	Oxidation Reduction Potention	203.9	mv
GC-AP-MW-24	3/26/2019 15:14	pH	5.28	pH
GC-AP-MW-24	3/26/2019 15:14	Temperature	18.97	C
GC-AP-MW-24	3/26/2019 15:14	Turbidity	0.98	NTU
GC-AP-MW-24	3/26/2019 15:19	Conductivity	284.4	uS/cm
GC-AP-MW-24	3/26/2019 15:19	Depth to Water Detail	17.01	ft
GC-AP-MW-24	3/26/2019 15:19	DO	4.35	mg/L
GC-AP-MW-24	3/26/2019 15:19	Oxidation Reduction Potention	201.3	mv
GC-AP-MW-24	3/26/2019 15:19	pH	5.3	pH
GC-AP-MW-24	3/26/2019 15:19	Temperature	18.91	C
GC-AP-MW-24	3/26/2019 15:19	Turbidity	1.14	NTU
GC-AP-MW-24	3/26/2019 15:24	Conductivity	275.5	uS/cm
GC-AP-MW-24	3/26/2019 15:24	Depth to Water Detail	17.01	ft
GC-AP-MW-24	3/26/2019 15:24	DO	4.39	mg/L
GC-AP-MW-24	3/26/2019 15:24	Oxidation Reduction Potention	198.4	mv
GC-AP-MW-24	3/26/2019 15:24	pH	5.32	pH
GC-AP-MW-24	3/26/2019 15:24	Temperature	18.97	C
GC-AP-MW-24	3/26/2019 15:24	Turbidity	0.76	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	3/27/2019 15:02	Conductivity	255.8	uS/cm
GC-AP-MW-25	3/27/2019 15:02	Depth to Water Detail	7.28	ft
GC-AP-MW-25	3/27/2019 15:02	DO	0.51	mg/L
GC-AP-MW-25	3/27/2019 15:02	Oxidation Reduction Potention	199.5	mv
GC-AP-MW-25	3/27/2019 15:02	pH	5.27	pH
GC-AP-MW-25	3/27/2019 15:02	Temperature	20.64	C
GC-AP-MW-25	3/27/2019 15:02	Turbidity	2.21	NTU
GC-AP-MW-25	3/27/2019 15:07	Conductivity	250.4	uS/cm
GC-AP-MW-25	3/27/2019 15:07	Depth to Water Detail	7.44	ft
GC-AP-MW-25	3/27/2019 15:07	DO	0.44	mg/L
GC-AP-MW-25	3/27/2019 15:07	Oxidation Reduction Potention	194.8	mv
GC-AP-MW-25	3/27/2019 15:07	pH	5.24	pH
GC-AP-MW-25	3/27/2019 15:07	Temperature	20.53	C
GC-AP-MW-25	3/27/2019 15:07	Turbidity	2.07	NTU
GC-AP-MW-25	3/27/2019 15:12	Conductivity	251.1	uS/cm
GC-AP-MW-25	3/27/2019 15:12	Depth to Water Detail	7.54	ft
GC-AP-MW-25	3/27/2019 15:12	DO	0.41	mg/L
GC-AP-MW-25	3/27/2019 15:12	Oxidation Reduction Potention	187.5	mv
GC-AP-MW-25	3/27/2019 15:12	pH	5.26	pH
GC-AP-MW-25	3/27/2019 15:12	Temperature	20.5	C
GC-AP-MW-25	3/27/2019 15:12	Turbidity	1.44	NTU
GC-AP-MW-25	3/27/2019 15:17	Conductivity	252.6	uS/cm
GC-AP-MW-25	3/27/2019 15:17	Depth to Water Detail	7.56	ft
GC-AP-MW-25	3/27/2019 15:17	DO	0.4	mg/L
GC-AP-MW-25	3/27/2019 15:17	Oxidation Reduction Potention	183.8	mv
GC-AP-MW-25	3/27/2019 15:17	pH	5.27	pH
GC-AP-MW-25	3/27/2019 15:17	Temperature	20.46	C
GC-AP-MW-25	3/27/2019 15:17	Turbidity	1.39	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	3/26/2019 12:57	Conductivity	40.9	uS/cm
GC-AP-MW-26	3/26/2019 12:57	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 12:57	DO	7.83	mg/L
GC-AP-MW-26	3/26/2019 12:57	Oxidation Reduction Potention	236.9	mv
GC-AP-MW-26	3/26/2019 12:57	pH	5.14	pH
GC-AP-MW-26	3/26/2019 12:57	Temperature	18.35	C
GC-AP-MW-26	3/26/2019 12:57	Turbidity	1.17	NTU
GC-AP-MW-26	3/26/2019 13:02	Conductivity	40	uS/cm
GC-AP-MW-26	3/26/2019 13:02	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 13:02	DO	7.69	mg/L
GC-AP-MW-26	3/26/2019 13:02	Oxidation Reduction Potention	232.6	mv
GC-AP-MW-26	3/26/2019 13:02	pH	5.15	pH
GC-AP-MW-26	3/26/2019 13:02	Temperature	18.35	C
GC-AP-MW-26	3/26/2019 13:02	Turbidity	0.65	NTU
GC-AP-MW-26	3/26/2019 13:07	Conductivity	40.8	uS/cm
GC-AP-MW-26	3/26/2019 13:07	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 13:07	DO	7.51	mg/L
GC-AP-MW-26	3/26/2019 13:07	Oxidation Reduction Potention	228.6	mv
GC-AP-MW-26	3/26/2019 13:07	pH	5.21	pH
GC-AP-MW-26	3/26/2019 13:07	Temperature	18.27	C
GC-AP-MW-26	3/26/2019 13:07	Turbidity	0.53	NTU
GC-AP-MW-26	3/26/2019 13:12	Conductivity	40.8	uS/cm
GC-AP-MW-26	3/26/2019 13:12	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 13:12	DO	7.27	mg/L
GC-AP-MW-26	3/26/2019 13:12	Oxidation Reduction Potention	222.7	mv
GC-AP-MW-26	3/26/2019 13:12	pH	5.33	pH
GC-AP-MW-26	3/26/2019 13:12	Temperature	18.31	C
GC-AP-MW-26	3/26/2019 13:12	Turbidity	0.93	NTU
GC-AP-MW-26	3/26/2019 13:17	Conductivity	41.1	uS/cm
GC-AP-MW-26	3/26/2019 13:17	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 13:17	DO	7.01	mg/L
GC-AP-MW-26	3/26/2019 13:17	Oxidation Reduction Potention	218.7	mv
GC-AP-MW-26	3/26/2019 13:17	pH	5.37	pH
GC-AP-MW-26	3/26/2019 13:17	Temperature	18.39	C
GC-AP-MW-26	3/26/2019 13:17	Turbidity	0.7	NTU
GC-AP-MW-26	3/26/2019 13:22	Conductivity	41.2	uS/cm
GC-AP-MW-26	3/26/2019 13:22	Depth to Water Detail	5.1	ft
GC-AP-MW-26	3/26/2019 13:22	DO	6.85	mg/L
GC-AP-MW-26	3/26/2019 13:22	Oxidation Reduction Potention	216.6	mv
GC-AP-MW-26	3/26/2019 13:22	pH	5.4	pH
GC-AP-MW-26	3/26/2019 13:22	Temperature	18.36	C
GC-AP-MW-26	3/26/2019 13:22	Turbidity	0.42	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	3/26/2019 9:21	Conductivity	35.4	uS/cm
GC-AP-MW-27	3/26/2019 9:21	Depth to Water Detail	7.12	ft
GC-AP-MW-27	3/26/2019 9:21	DO	5.73	mg/L
GC-AP-MW-27	3/26/2019 9:21	Oxidation Reduction Potention	263.3	mv
GC-AP-MW-27	3/26/2019 9:21	pH	4.93	pH
GC-AP-MW-27	3/26/2019 9:21	Temperature	18.13	C
GC-AP-MW-27	3/26/2019 9:21	Turbidity	1.31	NTU
GC-AP-MW-27	3/26/2019 9:26	Conductivity	30.5	uS/cm
GC-AP-MW-27	3/26/2019 9:26	Depth to Water Detail	7.12	ft
GC-AP-MW-27	3/26/2019 9:26	DO	5.59	mg/L
GC-AP-MW-27	3/26/2019 9:26	Oxidation Reduction Potention	263.8	mv
GC-AP-MW-27	3/26/2019 9:26	pH	4.94	pH
GC-AP-MW-27	3/26/2019 9:26	Temperature	18.18	C
GC-AP-MW-27	3/26/2019 9:26	Turbidity	0.6	NTU
GC-AP-MW-27	3/26/2019 9:31	Conductivity	28.4	uS/cm
GC-AP-MW-27	3/26/2019 9:31	Depth to Water Detail	7.12	ft
GC-AP-MW-27	3/26/2019 9:31	DO	5.58	mg/L
GC-AP-MW-27	3/26/2019 9:31	Oxidation Reduction Potention	262.3	mv
GC-AP-MW-27	3/26/2019 9:31	pH	4.93	pH
GC-AP-MW-27	3/26/2019 9:31	Temperature	18.26	C
GC-AP-MW-27	3/26/2019 9:31	Turbidity	0.64	NTU
GC-AP-MW-27	3/26/2019 9:36	Conductivity	27.7	uS/cm
GC-AP-MW-27	3/26/2019 9:36	Depth to Water Detail	7.12	ft
GC-AP-MW-27	3/26/2019 9:36	DO	5.47	mg/L
GC-AP-MW-27	3/26/2019 9:36	Oxidation Reduction Potention	259.1	mv
GC-AP-MW-27	3/26/2019 9:36	pH	4.95	pH
GC-AP-MW-27	3/26/2019 9:36	Temperature	18.3	C
GC-AP-MW-27	3/26/2019 9:36	Turbidity	0.64	NTU
GC-AP-MW-27	3/26/2019 9:41	Conductivity	27.7	uS/cm
GC-AP-MW-27	3/26/2019 9:41	Depth to Water Detail	7.12	ft
GC-AP-MW-27	3/26/2019 9:41	DO	5.4	mg/L
GC-AP-MW-27	3/26/2019 9:41	Oxidation Reduction Potention	257	mv
GC-AP-MW-27	3/26/2019 9:41	pH	4.96	pH
GC-AP-MW-27	3/26/2019 9:41	Temperature	18.32	C
GC-AP-MW-27	3/26/2019 9:41	Turbidity	0.62	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	3/26/2019 10:16	Conductivity	52.2	uS/cm
GC-AP-MW-28	3/26/2019 10:16	Depth to Water Detail	6.8	ft
GC-AP-MW-28	3/26/2019 10:16	DO	8.69	mg/L
GC-AP-MW-28	3/26/2019 10:16	Oxidation Reduction Potention	267.2	mv
GC-AP-MW-28	3/26/2019 10:16	pH	4.83	pH
GC-AP-MW-28	3/26/2019 10:16	Temperature	17.01	C
GC-AP-MW-28	3/26/2019 10:16	Turbidity	0.96	NTU
GC-AP-MW-28	3/26/2019 10:21	Conductivity	52.5	uS/cm
GC-AP-MW-28	3/26/2019 10:21	Depth to Water Detail	6.8	ft
GC-AP-MW-28	3/26/2019 10:21	DO	8.52	mg/L
GC-AP-MW-28	3/26/2019 10:21	Oxidation Reduction Potention	263	mv
GC-AP-MW-28	3/26/2019 10:21	pH	4.88	pH
GC-AP-MW-28	3/26/2019 10:21	Temperature	17.11	C
GC-AP-MW-28	3/26/2019 10:21	Turbidity	0.64	NTU
GC-AP-MW-28	3/26/2019 10:26	Conductivity	52.2	uS/cm
GC-AP-MW-28	3/26/2019 10:26	Depth to Water Detail	6.8	ft
GC-AP-MW-28	3/26/2019 10:26	DO	8.37	mg/L
GC-AP-MW-28	3/26/2019 10:26	Oxidation Reduction Potention	259.3	mv
GC-AP-MW-28	3/26/2019 10:26	pH	4.93	pH
GC-AP-MW-28	3/26/2019 10:26	Temperature	17.22	C
GC-AP-MW-28	3/26/2019 10:26	Turbidity	0.61	NTU
GC-AP-MW-28	3/26/2019 10:31	Conductivity	52.8	uS/cm
GC-AP-MW-28	3/26/2019 10:31	Depth to Water Detail	6.8	ft
GC-AP-MW-28	3/26/2019 10:31	DO	8.27	mg/L
GC-AP-MW-28	3/26/2019 10:31	Oxidation Reduction Potention	258	mv
GC-AP-MW-28	3/26/2019 10:31	pH	4.92	pH
GC-AP-MW-28	3/26/2019 10:31	Temperature	17.28	C
GC-AP-MW-28	3/26/2019 10:31	Turbidity	0.76	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	3/26/2019 12:09	Conductivity	16.7	uS/cm
GC-AP-MW-29	3/26/2019 12:09	Depth to Water Detail	5.61	ft
GC-AP-MW-29	3/26/2019 12:09	DO	9.07	mg/L
GC-AP-MW-29	3/26/2019 12:09	Oxidation Reduction Potention	250.9	mv
GC-AP-MW-29	3/26/2019 12:09	pH	5	pH
GC-AP-MW-29	3/26/2019 12:09	Temperature	18.1	C
GC-AP-MW-29	3/26/2019 12:09	Turbidity	0.82	NTU
GC-AP-MW-29	3/26/2019 12:14	Conductivity	17.1	uS/cm
GC-AP-MW-29	3/26/2019 12:14	Depth to Water Detail	5.61	ft
GC-AP-MW-29	3/26/2019 12:14	DO	9.09	mg/L
GC-AP-MW-29	3/26/2019 12:14	Oxidation Reduction Potention	249.2	mv
GC-AP-MW-29	3/26/2019 12:14	pH	4.96	pH
GC-AP-MW-29	3/26/2019 12:14	Temperature	17.99	C
GC-AP-MW-29	3/26/2019 12:14	Turbidity	0.78	NTU
GC-AP-MW-29	3/26/2019 12:19	Conductivity	17.2	uS/cm
GC-AP-MW-29	3/26/2019 12:19	Depth to Water Detail	5.61	ft
GC-AP-MW-29	3/26/2019 12:19	DO	9.08	mg/L
GC-AP-MW-29	3/26/2019 12:19	Oxidation Reduction Potention	248.1	mv
GC-AP-MW-29	3/26/2019 12:19	pH	4.97	pH
GC-AP-MW-29	3/26/2019 12:19	Temperature	17.9	C
GC-AP-MW-29	3/26/2019 12:19	Turbidity	0.81	NTU
GC-AP-MW-29	3/26/2019 12:24	Conductivity	17.5	uS/cm
GC-AP-MW-29	3/26/2019 12:24	Depth to Water Detail	5.61	ft
GC-AP-MW-29	3/26/2019 12:24	DO	9.04	mg/L
GC-AP-MW-29	3/26/2019 12:24	Oxidation Reduction Potention	247.6	mv
GC-AP-MW-29	3/26/2019 12:24	pH	4.97	pH
GC-AP-MW-29	3/26/2019 12:24	Temperature	17.9	C
GC-AP-MW-29	3/26/2019 12:24	Turbidity	0.58	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	3/27/2019 14:26	Conductivity	634.6	uS/cm
GC-AP-MW-3	3/27/2019 14:26	Depth to Water Detail	8.03	ft
GC-AP-MW-3	3/27/2019 14:26	DO	0.73	mg/L
GC-AP-MW-3	3/27/2019 14:26	Oxidation Reduction Potention	-32.7	mv
GC-AP-MW-3	3/27/2019 14:26	pH	6.45	pH
GC-AP-MW-3	3/27/2019 14:26	Temperature	20.12	C
GC-AP-MW-3	3/27/2019 14:26	Turbidity	2.42	NTU
GC-AP-MW-3	3/27/2019 14:31	Conductivity	632.9	uS/cm
GC-AP-MW-3	3/27/2019 14:31	Depth to Water Detail	8.13	ft
GC-AP-MW-3	3/27/2019 14:31	DO	0.57	mg/L
GC-AP-MW-3	3/27/2019 14:31	Oxidation Reduction Potention	-32.8	mv
GC-AP-MW-3	3/27/2019 14:31	pH	6.45	pH
GC-AP-MW-3	3/27/2019 14:31	Temperature	19.97	C
GC-AP-MW-3	3/27/2019 14:31	Turbidity	1.22	NTU
GC-AP-MW-3	3/27/2019 14:36	Conductivity	629.7	uS/cm
GC-AP-MW-3	3/27/2019 14:36	Depth to Water Detail	8.17	ft
GC-AP-MW-3	3/27/2019 14:36	DO	0.5	mg/L
GC-AP-MW-3	3/27/2019 14:36	Oxidation Reduction Potention	-33.9	mv
GC-AP-MW-3	3/27/2019 14:36	pH	6.45	pH
GC-AP-MW-3	3/27/2019 14:36	Temperature	20.02	C
GC-AP-MW-3	3/27/2019 14:36	Turbidity	1.04	NTU
GC-AP-MW-3	3/27/2019 14:41	Conductivity	625.8	uS/cm
GC-AP-MW-3	3/27/2019 14:41	Depth to Water Detail	8.22	ft
GC-AP-MW-3	3/27/2019 14:41	DO	0.47	mg/L
GC-AP-MW-3	3/27/2019 14:41	Oxidation Reduction Potention	-34.3	mv
GC-AP-MW-3	3/27/2019 14:41	pH	6.45	pH
GC-AP-MW-3	3/27/2019 14:41	Temperature	19.93	C
GC-AP-MW-3	3/27/2019 14:41	Turbidity	1.66	NTU
GC-AP-MW-3	3/27/2019 14:46	Conductivity	624.9	uS/cm
GC-AP-MW-3	3/27/2019 14:46	Depth to Water Detail	8.24	ft
GC-AP-MW-3	3/27/2019 14:46	DO	0.45	mg/L
GC-AP-MW-3	3/27/2019 14:46	Oxidation Reduction Potention	-34.5	mv
GC-AP-MW-3	3/27/2019 14:46	pH	6.44	pH
GC-AP-MW-3	3/27/2019 14:46	Temperature	19.95	C
GC-AP-MW-3	3/27/2019 14:46	Turbidity	1.98	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	3/26/2019 11:09	Conductivity	34.8	uS/cm
GC-AP-MW-30	3/26/2019 11:09	Depth to Water Detail	7.6	ft
GC-AP-MW-30	3/26/2019 11:09	DO	7.67	mg/L
GC-AP-MW-30	3/26/2019 11:09	Oxidation Reduction Potention	245	mv
GC-AP-MW-30	3/26/2019 11:09	pH	5.16	pH
GC-AP-MW-30	3/26/2019 11:09	Temperature	17.67	C
GC-AP-MW-30	3/26/2019 11:09	Turbidity	0.59	NTU
GC-AP-MW-30	3/26/2019 11:14	Conductivity	34.4	uS/cm
GC-AP-MW-30	3/26/2019 11:14	Depth to Water Detail	7.6	ft
GC-AP-MW-30	3/26/2019 11:14	DO	7.59	mg/L
GC-AP-MW-30	3/26/2019 11:14	Oxidation Reduction Potention	241.3	mv
GC-AP-MW-30	3/26/2019 11:14	pH	5.14	pH
GC-AP-MW-30	3/26/2019 11:14	Temperature	17.72	C
GC-AP-MW-30	3/26/2019 11:14	Turbidity	0.47	NTU
GC-AP-MW-30	3/26/2019 11:19	Conductivity	34.5	uS/cm
GC-AP-MW-30	3/26/2019 11:19	Depth to Water Detail	7.6	ft
GC-AP-MW-30	3/26/2019 11:19	DO	7.58	mg/L
GC-AP-MW-30	3/26/2019 11:19	Oxidation Reduction Potention	239.6	mv
GC-AP-MW-30	3/26/2019 11:19	pH	5.14	pH
GC-AP-MW-30	3/26/2019 11:19	Temperature	17.72	C
GC-AP-MW-30	3/26/2019 11:19	Turbidity	0.57	NTU
GC-AP-MW-30	3/26/2019 11:24	Conductivity	33.7	uS/cm
GC-AP-MW-30	3/26/2019 11:24	Depth to Water Detail	7.6	ft
GC-AP-MW-30	3/26/2019 11:24	DO	7.54	mg/L
GC-AP-MW-30	3/26/2019 11:24	Oxidation Reduction Potention	238.2	mv
GC-AP-MW-30	3/26/2019 11:24	pH	5.16	pH
GC-AP-MW-30	3/26/2019 11:24	Temperature	17.77	C
GC-AP-MW-30	3/26/2019 11:24	Turbidity	0.63	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	3/27/2019 10:13	Conductivity	69.8	uS/cm
GC-AP-MW-31	3/27/2019 10:13	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:13	DO	1.95	mg/L
GC-AP-MW-31	3/27/2019 10:13	Oxidation Reduction Potention	197.7	mv
GC-AP-MW-31	3/27/2019 10:13	pH	5.93	pH
GC-AP-MW-31	3/27/2019 10:13	Temperature	17.1	C
GC-AP-MW-31	3/27/2019 10:13	Turbidity	3.09	NTU
GC-AP-MW-31	3/27/2019 10:18	Conductivity	67.8	uS/cm
GC-AP-MW-31	3/27/2019 10:18	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:18	DO	1.76	mg/L
GC-AP-MW-31	3/27/2019 10:18	Oxidation Reduction Potention	179	mv
GC-AP-MW-31	3/27/2019 10:18	pH	5.92	pH
GC-AP-MW-31	3/27/2019 10:18	Temperature	17.29	C
GC-AP-MW-31	3/27/2019 10:18	Turbidity	2.3	NTU
GC-AP-MW-31	3/27/2019 10:23	Conductivity	68.1	uS/cm
GC-AP-MW-31	3/27/2019 10:23	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:23	DO	1.59	mg/L
GC-AP-MW-31	3/27/2019 10:23	Oxidation Reduction Potention	170.9	mv
GC-AP-MW-31	3/27/2019 10:23	pH	5.91	pH
GC-AP-MW-31	3/27/2019 10:23	Temperature	17.41	C
GC-AP-MW-31	3/27/2019 10:23	Turbidity	1.29	NTU
GC-AP-MW-31	3/27/2019 10:28	Conductivity	66.4	uS/cm
GC-AP-MW-31	3/27/2019 10:28	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:28	DO	1.63	mg/L
GC-AP-MW-31	3/27/2019 10:28	Oxidation Reduction Potention	167.8	mv
GC-AP-MW-31	3/27/2019 10:28	pH	5.9	pH
GC-AP-MW-31	3/27/2019 10:28	Temperature	17.41	C
GC-AP-MW-31	3/27/2019 10:28	Turbidity	1.21	NTU
GC-AP-MW-31	3/27/2019 10:34	Conductivity	69.8	uS/cm
GC-AP-MW-31	3/27/2019 10:34	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:34	DO	1.53	mg/L
GC-AP-MW-31	3/27/2019 10:34	Oxidation Reduction Potention	164.6	mv
GC-AP-MW-31	3/27/2019 10:34	pH	5.93	pH
GC-AP-MW-31	3/27/2019 10:34	Temperature	17.45	C
GC-AP-MW-31	3/27/2019 10:34	Turbidity	0.87	NTU
GC-AP-MW-31	3/27/2019 10:39	Conductivity	70.9	uS/cm
GC-AP-MW-31	3/27/2019 10:39	Depth to Water Detail	6.33	ft
GC-AP-MW-31	3/27/2019 10:39	DO	1.5	mg/L
GC-AP-MW-31	3/27/2019 10:39	Oxidation Reduction Potention	162	mv
GC-AP-MW-31	3/27/2019 10:39	pH	5.94	pH
GC-AP-MW-31	3/27/2019 10:39	Temperature	17.48	C
GC-AP-MW-31	3/27/2019 10:39	Turbidity	0.91	NTU
GC-AP-MW-31	3/27/2019 10:44	Conductivity	72.6	uS/cm
GC-AP-MW-31	3/27/2019 10:44	Depth to Water Detail	6.33	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	3/27/2019 10:44	DO	1.42	mg/L
GC-AP-MW-31	3/27/2019 10:44	Oxidation Reduction Potention	161.1	mv
GC-AP-MW-31	3/27/2019 10:44	pH	5.95	pH
GC-AP-MW-31	3/27/2019 10:44	Temperature	17.48	C
GC-AP-MW-31	3/27/2019 10:44	Turbidity	0.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	3/27/2019 11:25	Conductivity	77.1	uS/cm
GC-AP-MW-32	3/27/2019 11:25	Depth to Water Detail	16.92	ft
GC-AP-MW-32	3/27/2019 11:25	DO	4.49	mg/L
GC-AP-MW-32	3/27/2019 11:25	Oxidation Reduction Potention	185.9	mv
GC-AP-MW-32	3/27/2019 11:25	pH	6.08	pH
GC-AP-MW-32	3/27/2019 11:25	Temperature	19	C
GC-AP-MW-32	3/27/2019 11:25	Turbidity	0.88	NTU
GC-AP-MW-32	3/27/2019 11:30	Conductivity	81.4	uS/cm
GC-AP-MW-32	3/27/2019 11:30	Depth to Water Detail	16.92	ft
GC-AP-MW-32	3/27/2019 11:30	DO	4.22	mg/L
GC-AP-MW-32	3/27/2019 11:30	Oxidation Reduction Potention	180.2	mv
GC-AP-MW-32	3/27/2019 11:30	pH	6.13	pH
GC-AP-MW-32	3/27/2019 11:30	Temperature	18.98	C
GC-AP-MW-32	3/27/2019 11:30	Turbidity	1.02	NTU
GC-AP-MW-32	3/27/2019 11:35	Conductivity	82.6	uS/cm
GC-AP-MW-32	3/27/2019 11:35	Depth to Water Detail	16.92	ft
GC-AP-MW-32	3/27/2019 11:35	DO	4.12	mg/L
GC-AP-MW-32	3/27/2019 11:35	Oxidation Reduction Potention	177	mv
GC-AP-MW-32	3/27/2019 11:35	pH	6.13	pH
GC-AP-MW-32	3/27/2019 11:35	Temperature	19.01	C
GC-AP-MW-32	3/27/2019 11:35	Turbidity	0.66	NTU
GC-AP-MW-32	3/27/2019 11:40	Conductivity	83.3	uS/cm
GC-AP-MW-32	3/27/2019 11:40	Depth to Water Detail	16.92	ft
GC-AP-MW-32	3/27/2019 11:40	DO	4.08	mg/L
GC-AP-MW-32	3/27/2019 11:40	Oxidation Reduction Potention	175.3	mv
GC-AP-MW-32	3/27/2019 11:40	pH	6.14	pH
GC-AP-MW-32	3/27/2019 11:40	Temperature	19.03	C
GC-AP-MW-32	3/27/2019 11:40	Turbidity	0.83	NTU
GC-AP-MW-32	3/27/2019 11:45	Conductivity	83.5	uS/cm
GC-AP-MW-32	3/27/2019 11:45	Depth to Water Detail	16.92	ft
GC-AP-MW-32	3/27/2019 11:45	DO	4.07	mg/L
GC-AP-MW-32	3/27/2019 11:45	Oxidation Reduction Potention	174.4	mv
GC-AP-MW-32	3/27/2019 11:45	pH	6.15	pH
GC-AP-MW-32	3/27/2019 11:45	Temperature	19.08	C
GC-AP-MW-32	3/27/2019 11:45	Turbidity	0.92	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	3/27/2019 9:07	Conductivity	117.3	uS/cm
GC-AP-MW-33	3/27/2019 9:07	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:07	DO	6.31	mg/L
GC-AP-MW-33	3/27/2019 9:07	Oxidation Reduction Potention	260.3	mv
GC-AP-MW-33	3/27/2019 9:07	pH	4.67	pH
GC-AP-MW-33	3/27/2019 9:07	Temperature	17.1	C
GC-AP-MW-33	3/27/2019 9:07	Turbidity	0.5	NTU
GC-AP-MW-33	3/27/2019 9:12	Conductivity	116.4	uS/cm
GC-AP-MW-33	3/27/2019 9:12	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:12	DO	6.23	mg/L
GC-AP-MW-33	3/27/2019 9:12	Oxidation Reduction Potention	258.2	mv
GC-AP-MW-33	3/27/2019 9:12	pH	4.64	pH
GC-AP-MW-33	3/27/2019 9:12	Temperature	17.27	C
GC-AP-MW-33	3/27/2019 9:12	Turbidity	0.44	NTU
GC-AP-MW-33	3/27/2019 9:17	Conductivity	115.1	uS/cm
GC-AP-MW-33	3/27/2019 9:17	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:17	DO	6.18	mg/L
GC-AP-MW-33	3/27/2019 9:17	Oxidation Reduction Potention	255.6	mv
GC-AP-MW-33	3/27/2019 9:17	pH	4.64	pH
GC-AP-MW-33	3/27/2019 9:17	Temperature	17.32	C
GC-AP-MW-33	3/27/2019 9:17	Turbidity	0.7	NTU
GC-AP-MW-33	3/27/2019 9:22	Conductivity	109.4	uS/cm
GC-AP-MW-33	3/27/2019 9:22	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:22	DO	6.15	mg/L
GC-AP-MW-33	3/27/2019 9:22	Oxidation Reduction Potention	251.8	mv
GC-AP-MW-33	3/27/2019 9:22	pH	4.68	pH
GC-AP-MW-33	3/27/2019 9:22	Temperature	17.34	C
GC-AP-MW-33	3/27/2019 9:22	Turbidity	0.32	NTU
GC-AP-MW-33	3/27/2019 9:27	Conductivity	111.3	uS/cm
GC-AP-MW-33	3/27/2019 9:27	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:27	DO	6.1	mg/L
GC-AP-MW-33	3/27/2019 9:27	Oxidation Reduction Potention	249.9	mv
GC-AP-MW-33	3/27/2019 9:27	pH	4.65	pH
GC-AP-MW-33	3/27/2019 9:27	Temperature	17.72	C
GC-AP-MW-33	3/27/2019 9:27	Turbidity	0.38	NTU
GC-AP-MW-33	3/27/2019 9:32	Conductivity	110.4	uS/cm
GC-AP-MW-33	3/27/2019 9:32	Depth to Water Detail	19.3	ft
GC-AP-MW-33	3/27/2019 9:32	DO	6.03	mg/L
GC-AP-MW-33	3/27/2019 9:32	Oxidation Reduction Potention	248.3	mv
GC-AP-MW-33	3/27/2019 9:32	pH	4.68	pH
GC-AP-MW-33	3/27/2019 9:32	Temperature	17.9	C
GC-AP-MW-33	3/27/2019 9:32	Turbidity	0.36	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	3/27/2019 13:00	Conductivity	569.4	uS/cm
GC-AP-MW-5	3/27/2019 13:00	Depth to Water Detail	9.45	ft
GC-AP-MW-5	3/27/2019 13:00	DO	0.7	mg/L
GC-AP-MW-5	3/27/2019 13:00	Oxidation Reduction Potention	-79.8	mv
GC-AP-MW-5	3/27/2019 13:00	pH	6.55	pH
GC-AP-MW-5	3/27/2019 13:00	Temperature	20.57	C
GC-AP-MW-5	3/27/2019 13:00	Turbidity	0.75	NTU
GC-AP-MW-5	3/27/2019 13:05	Conductivity	573.4	uS/cm
GC-AP-MW-5	3/27/2019 13:05	Depth to Water Detail	9.45	ft
GC-AP-MW-5	3/27/2019 13:05	DO	0.59	mg/L
GC-AP-MW-5	3/27/2019 13:05	Oxidation Reduction Potention	-81	mv
GC-AP-MW-5	3/27/2019 13:05	pH	6.58	pH
GC-AP-MW-5	3/27/2019 13:05	Temperature	20.27	C
GC-AP-MW-5	3/27/2019 13:05	Turbidity	0.68	NTU
GC-AP-MW-5	3/27/2019 13:10	Conductivity	575.9	uS/cm
GC-AP-MW-5	3/27/2019 13:10	Depth to Water Detail	9.45	ft
GC-AP-MW-5	3/27/2019 13:10	DO	0.53	mg/L
GC-AP-MW-5	3/27/2019 13:10	Oxidation Reduction Potention	-81.4	mv
GC-AP-MW-5	3/27/2019 13:10	pH	6.58	pH
GC-AP-MW-5	3/27/2019 13:10	Temperature	20.22	C
GC-AP-MW-5	3/27/2019 13:10	Turbidity	0.74	NTU
GC-AP-MW-5	3/27/2019 13:15	Conductivity	577.8	uS/cm
GC-AP-MW-5	3/27/2019 13:15	Depth to Water Detail	9.45	ft
GC-AP-MW-5	3/27/2019 13:15	DO	0.5	mg/L
GC-AP-MW-5	3/27/2019 13:15	Oxidation Reduction Potention	-81.6	mv
GC-AP-MW-5	3/27/2019 13:15	pH	6.59	pH
GC-AP-MW-5	3/27/2019 13:15	Temperature	20.17	C
GC-AP-MW-5	3/27/2019 13:15	Turbidity	0.77	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	3/26/2019 13:16	Conductivity	1081.2	uS/cm
GC-AP-MW-6	3/26/2019 13:16	Depth to Water Detail	4.95	ft
GC-AP-MW-6	3/26/2019 13:16	DO	0.58	mg/L
GC-AP-MW-6	3/26/2019 13:16	Oxidation Reduction Potention	110.9	mv
GC-AP-MW-6	3/26/2019 13:16	pH	6.56	pH
GC-AP-MW-6	3/26/2019 13:16	Temperature	19.83	C
GC-AP-MW-6	3/26/2019 13:16	Turbidity	5.5	NTU
GC-AP-MW-6	3/26/2019 13:21	Conductivity	1086.7	uS/cm
GC-AP-MW-6	3/26/2019 13:21	Depth to Water Detail	4.95	ft
GC-AP-MW-6	3/26/2019 13:21	DO	0.49	mg/L
GC-AP-MW-6	3/26/2019 13:21	Oxidation Reduction Potention	106.9	mv
GC-AP-MW-6	3/26/2019 13:21	pH	6.55	pH
GC-AP-MW-6	3/26/2019 13:21	Temperature	20.17	C
GC-AP-MW-6	3/26/2019 13:21	Turbidity	5.72	NTU
GC-AP-MW-6	3/26/2019 13:26	Conductivity	1085.4	uS/cm
GC-AP-MW-6	3/26/2019 13:26	Depth to Water Detail	4.95	ft
GC-AP-MW-6	3/26/2019 13:26	DO	0.46	mg/L
GC-AP-MW-6	3/26/2019 13:26	Oxidation Reduction Potention	106.2	mv
GC-AP-MW-6	3/26/2019 13:26	pH	6.54	pH
GC-AP-MW-6	3/26/2019 13:26	Temperature	19.92	C
GC-AP-MW-6	3/26/2019 13:26	Turbidity	6.54	NTU
GC-AP-MW-6	3/26/2019 13:31	Conductivity	1074.7	uS/cm
GC-AP-MW-6	3/26/2019 13:31	Depth to Water Detail	4.95	ft
GC-AP-MW-6	3/26/2019 13:31	DO	0.44	mg/L
GC-AP-MW-6	3/26/2019 13:31	Oxidation Reduction Potention	94.5	mv
GC-AP-MW-6	3/26/2019 13:31	pH	6.54	pH
GC-AP-MW-6	3/26/2019 13:31	Temperature	19.92	C
GC-AP-MW-6	3/26/2019 13:31	Turbidity	4.35	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	3/26/2019 12:01	Conductivity	1476.1	uS/cm
GC-AP-MW-7	3/26/2019 12:01	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:01	DO	2.05	mg/L
GC-AP-MW-7	3/26/2019 12:01	Oxidation Reduction Potention	97.2	mv
GC-AP-MW-7	3/26/2019 12:01	pH	6.39	pH
GC-AP-MW-7	3/26/2019 12:01	Temperature	19.17	C
GC-AP-MW-7	3/26/2019 12:01	Turbidity	4.62	NTU
GC-AP-MW-7	3/26/2019 12:06	Conductivity	1497.7	uS/cm
GC-AP-MW-7	3/26/2019 12:06	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:06	DO	2.72	mg/L
GC-AP-MW-7	3/26/2019 12:06	Oxidation Reduction Potention	91.8	mv
GC-AP-MW-7	3/26/2019 12:06	pH	6.39	pH
GC-AP-MW-7	3/26/2019 12:06	Temperature	19.18	C
GC-AP-MW-7	3/26/2019 12:06	Turbidity	5.51	NTU
GC-AP-MW-7	3/26/2019 12:11	Conductivity	1505.5	uS/cm
GC-AP-MW-7	3/26/2019 12:11	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:11	DO	3.34	mg/L
GC-AP-MW-7	3/26/2019 12:11	Oxidation Reduction Potention	89.7	mv
GC-AP-MW-7	3/26/2019 12:11	pH	6.4	pH
GC-AP-MW-7	3/26/2019 12:11	Temperature	19.34	C
GC-AP-MW-7	3/26/2019 12:11	Turbidity	5.07	NTU
GC-AP-MW-7	3/26/2019 12:16	Conductivity	1537.8	uS/cm
GC-AP-MW-7	3/26/2019 12:16	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:16	DO	0.91	mg/L
GC-AP-MW-7	3/26/2019 12:16	Oxidation Reduction Potention	80.1	mv
GC-AP-MW-7	3/26/2019 12:16	pH	6.4	pH
GC-AP-MW-7	3/26/2019 12:16	Temperature	19.44	C
GC-AP-MW-7	3/26/2019 12:16	Turbidity	4.83	NTU
GC-AP-MW-7	3/26/2019 12:21	Conductivity	1532	uS/cm
GC-AP-MW-7	3/26/2019 12:21	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:21	DO	0.99	mg/L
GC-AP-MW-7	3/26/2019 12:21	Oxidation Reduction Potention	64.1	mv
GC-AP-MW-7	3/26/2019 12:21	pH	6.4	pH
GC-AP-MW-7	3/26/2019 12:21	Temperature	19.34	C
GC-AP-MW-7	3/26/2019 12:21	Turbidity	5.29	NTU
GC-AP-MW-7	3/26/2019 12:26	Conductivity	1544	uS/cm
GC-AP-MW-7	3/26/2019 12:26	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:26	DO	1.24	mg/L
GC-AP-MW-7	3/26/2019 12:26	Oxidation Reduction Potention	55	mv
GC-AP-MW-7	3/26/2019 12:26	pH	6.4	pH
GC-AP-MW-7	3/26/2019 12:26	Temperature	19.4	C
GC-AP-MW-7	3/26/2019 12:26	Turbidity	5.19	NTU
GC-AP-MW-7	3/26/2019 12:31	Conductivity	1548	uS/cm
GC-AP-MW-7	3/26/2019 12:31	Depth to Water Detail	7.8	ft

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	3/26/2019 12:31	DO	0.67	mg/L
GC-AP-MW-7	3/26/2019 12:31	Oxidation Reduction Potention	50.5	mv
GC-AP-MW-7	3/26/2019 12:31	pH	6.39	pH
GC-AP-MW-7	3/26/2019 12:31	Temperature	19.58	C
GC-AP-MW-7	3/26/2019 12:31	Turbidity	4.42	NTU
GC-AP-MW-7	3/26/2019 12:36	Conductivity	1555.1	uS/cm
GC-AP-MW-7	3/26/2019 12:36	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:36	DO	0.65	mg/L
GC-AP-MW-7	3/26/2019 12:36	Oxidation Reduction Potention	41.8	mv
GC-AP-MW-7	3/26/2019 12:36	pH	6.4	pH
GC-AP-MW-7	3/26/2019 12:36	Temperature	19.66	C
GC-AP-MW-7	3/26/2019 12:36	Turbidity	4.58	NTU
GC-AP-MW-7	3/26/2019 12:41	Conductivity	1550.5	uS/cm
GC-AP-MW-7	3/26/2019 12:41	Depth to Water Detail	7.8	ft
GC-AP-MW-7	3/26/2019 12:41	DO	0.63	mg/L
GC-AP-MW-7	3/26/2019 12:41	Oxidation Reduction Potention	39.4	mv
GC-AP-MW-7	3/26/2019 12:41	pH	6.39	pH
GC-AP-MW-7	3/26/2019 12:41	Temperature	19.84	C
GC-AP-MW-7	3/26/2019 12:41	Turbidity	5.13	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	3/26/2019 11:20	Conductivity	892.8	uS/cm
GC-AP-MW-8	3/26/2019 11:20	Depth to Water Detail	8.1	ft
GC-AP-MW-8	3/26/2019 11:20	DO	0.75	mg/L
GC-AP-MW-8	3/26/2019 11:20	Oxidation Reduction Potention	126.2	mv
GC-AP-MW-8	3/26/2019 11:20	pH	6.32	pH
GC-AP-MW-8	3/26/2019 11:20	Temperature	18.94	C
GC-AP-MW-8	3/26/2019 11:20	Turbidity	6.01	NTU
GC-AP-MW-8	3/26/2019 11:25	Conductivity	896.2	uS/cm
GC-AP-MW-8	3/26/2019 11:25	Depth to Water Detail	8.1	ft
GC-AP-MW-8	3/26/2019 11:25	DO	0.61	mg/L
GC-AP-MW-8	3/26/2019 11:25	Oxidation Reduction Potention	128.3	mv
GC-AP-MW-8	3/26/2019 11:25	pH	6.32	pH
GC-AP-MW-8	3/26/2019 11:25	Temperature	18.99	C
GC-AP-MW-8	3/26/2019 11:25	Turbidity	4.61	NTU
GC-AP-MW-8	3/26/2019 11:30	Conductivity	892.6	uS/cm
GC-AP-MW-8	3/26/2019 11:30	Depth to Water Detail	8.1	ft
GC-AP-MW-8	3/26/2019 11:30	DO	0.54	mg/L
GC-AP-MW-8	3/26/2019 11:30	Oxidation Reduction Potention	127.8	mv
GC-AP-MW-8	3/26/2019 11:30	pH	6.32	pH
GC-AP-MW-8	3/26/2019 11:30	Temperature	19.02	C
GC-AP-MW-8	3/26/2019 11:30	Turbidity	6.64	NTU
GC-AP-MW-8	3/26/2019 11:35	Conductivity	895.4	uS/cm
GC-AP-MW-8	3/26/2019 11:35	Depth to Water Detail	8.1	ft
GC-AP-MW-8	3/26/2019 11:35	DO	0.54	mg/L
GC-AP-MW-8	3/26/2019 11:35	Oxidation Reduction Potention	125.1	mv
GC-AP-MW-8	3/26/2019 11:35	pH	6.32	pH
GC-AP-MW-8	3/26/2019 11:35	Temperature	18.98	C
GC-AP-MW-8	3/26/2019 11:35	Turbidity	5.17	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	3/26/2019 10:35	Conductivity	951.5	uS/cm
GC-AP-MW-9	3/26/2019 10:35	Depth to Water Detail	4.95	ft
GC-AP-MW-9	3/26/2019 10:35	DO	0.76	mg/L
GC-AP-MW-9	3/26/2019 10:35	Oxidation Reduction Potention	-23.7	mv
GC-AP-MW-9	3/26/2019 10:35	pH	6.47	pH
GC-AP-MW-9	3/26/2019 10:35	Temperature	19.08	C
GC-AP-MW-9	3/26/2019 10:35	Turbidity	8.52	NTU
GC-AP-MW-9	3/26/2019 10:40	Conductivity	953.2	uS/cm
GC-AP-MW-9	3/26/2019 10:40	Depth to Water Detail	4.95	ft
GC-AP-MW-9	3/26/2019 10:40	DO	0.66	mg/L
GC-AP-MW-9	3/26/2019 10:40	Oxidation Reduction Potention	-24.1	mv
GC-AP-MW-9	3/26/2019 10:40	pH	6.47	pH
GC-AP-MW-9	3/26/2019 10:40	Temperature	19.17	C
GC-AP-MW-9	3/26/2019 10:40	Turbidity	5.89	NTU
GC-AP-MW-9	3/26/2019 10:45	Conductivity	946.7	uS/cm
GC-AP-MW-9	3/26/2019 10:45	Depth to Water Detail	4.95	ft
GC-AP-MW-9	3/26/2019 10:45	DO	0.63	mg/L
GC-AP-MW-9	3/26/2019 10:45	Oxidation Reduction Potention	-23.7	mv
GC-AP-MW-9	3/26/2019 10:45	pH	6.47	pH
GC-AP-MW-9	3/26/2019 10:45	Temperature	19.16	C
GC-AP-MW-9	3/26/2019 10:45	Turbidity	5.83	NTU
GC-AP-MW-9	3/26/2019 10:50	Conductivity	947.8	uS/cm
GC-AP-MW-9	3/26/2019 10:50	Depth to Water Detail	4.95	ft
GC-AP-MW-9	3/26/2019 10:50	DO	0.61	mg/L
GC-AP-MW-9	3/26/2019 10:50	Oxidation Reduction Potention	-22.9	mv
GC-AP-MW-9	3/26/2019 10:50	pH	6.47	pH
GC-AP-MW-9	3/26/2019 10:50	Temperature	19.17	C
GC-AP-MW-9	3/26/2019 10:50	Turbidity	5.5	NTU

2nd
Semi-Annual
Monitoring Event

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative

Greene County Ash Pond

2019 Compliance Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Suspected iron bacteria present in well MW-17 during initial pumping.

Truck traffic and dusty conditions were present when pumping and sampling well MW-38H.

No sample was collected for well MW-37H. The water level in the well would not stabilize and went dry after 60 minutes of pumping. Turbidity was too elevated for passive sampling.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report

Alabama Power

Sample Group : WMWGREAP_1239

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks, Greg Dyer, & Corey Ladner

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001

Alabama Power

October 15, 2019

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between September 11, 2019 and September 12, 2019. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2020

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2019.10.16 14:24:14 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2019.10.17 09:20:52 -05'00'

NELAP ACCREDITED TNI LABORATORY

REPORT OF LABORATORY ANALYSIS

Alabama Power Lab & Field SERVICES

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Metals ICP

Greene County Ash Pond

WMWGREAP_1239

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ20527	655748	WMWGREAP_1239
AZ20528	655748	WMWGREAP_1239
AZ20529	655748	WMWGREAP_1239
AZ20530	655748	WMWGREAP_1239
AZ20531	655748	WMWGREAP_1239
AZ20532	655748	WMWGREAP_1239
AZ20533	655748	WMWGREAP_1239
AZ20534	655748	WMWGREAP_1239
AZ20535	655748	WMWGREAP_1239
AZ20536	655748	WMWGREAP_1239
AZ20537	655749	WMWGREAP_1239
AZ20538	655749	WMWGREAP_1239
AZ20539	655749	WMWGREAP_1239
AZ20540	655749	WMWGREAP_1239
AZ20541	655749	WMWGREAP_1239
AZ20542	655749	WMWGREAP_1239
AZ20543	655749	WMWGREAP_1239
AZ20544	655749	WMWGREAP_1239
AZ20545	655749	WMWGREAP_1239
AZ20546	655749	WMWGREAP_1239
AZ20547	655750	WMWGREAP_1239
AZ20548	655750	WMWGREAP_1239
AZ20549	655750	WMWGREAP_1239
AZ20550	655750	WMWGREAP_1239
AZ20551	655750	WMWGREAP_1239
AZ20552	655750	WMWGREAP_1239
AZ20553	655750	WMWGREAP_1239
AZ20554	655750	WMWGREAP_1239
AZ20683	655750	WMWGREAP_1239

AZ20684	655750	WMWGREAP_1239
AZ20685	655751	WMWGREAP_1239
AZ20686	655751	WMWGREAP_1239
AZ20687	655751	WMWGREAP_1239
AZ20688	655751	WMWGREAP_1239
AZ20689	655751	WMWGREAP_1239
AZ20690	655751	WMWGREAP_1239
AZ20691	655751	WMWGREAP_1239
AZ20692	655751	WMWGREAP_1239
AZ20693	655751	WMWGREAP_1239
AZ20694	655751	WMWGREAP_1239
AZ20695	655752	WMWGREAP_1239
AZ20696	655752	WMWGREAP_1239
AZ20697	655752	WMWGREAP_1239
AZ20698	655752	WMWGREAP_1239
AZ20699	655752	WMWGREAP_1239
AZ20700	655752	WMWGREAP_1239
AZ20701	655752	WMWGREAP_1239
AZ20702	655752	WMWGREAP_1239
AZ20703	655752	WMWGREAP_1239
AZ20704	655752	WMWGREAP_1239
AZ20705	655752	WMWGREAP_1239
AZ20706	655753	WMWGREAP_1239

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - AZ20536 MS/MSD spike level for calcium was less than 30% of the sample nominal concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ20527	Calcium	10.15X
AZ20528	Calcium	10.15X
AZ20529	Calcium	10.15X
AZ20536	Calcium	10.15X
AZ20538	Calcium	10.15X
AZ20539	Calcium	10.15X
AZ20540	Calcium	10.15X
AZ20541	Calcium	10.15X
AZ20542	Calcium	10.15X
AZ20543	Calcium	10.15X
AZ20544	Calcium	10.15X
AZ20545	Calcium	10.15X
AZ20546	Calcium	10.15X
AZ20547	Calcium	10.15X
AZ20549	Calcium	10.15X
AZ20550	Calcium	10.15X
AZ20551	Calcium	10.15X
AZ20695	Calcium	10.15X
AZ20696	Calcium	10.15X
AZ20698	Calcium	10.15X
AZ20699	Calcium	10.15X
AZ20700	Calcium	10.15X
AZ20701	Calcium	10.15X
AZ20703	Calcium	10.15X
AZ20705	Calcium	10.15X
AZ20706	Calcium	10.15X

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1239

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ20527	655904	WMWGREAP_1239
AZ20528	655904	WMWGREAP_1239
AZ20529	655904	WMWGREAP_1239
AZ20530	655904	WMWGREAP_1239
AZ20531	655904	WMWGREAP_1239
AZ20532	655904	WMWGREAP_1239
AZ20533	655904	WMWGREAP_1239
AZ20534	655904	WMWGREAP_1239
AZ20535	655904	WMWGREAP_1239
AZ20536	655904	WMWGREAP_1239
AZ20537	655905	WMWGREAP_1239
AZ20538	655905	WMWGREAP_1239
AZ20539	655905	WMWGREAP_1239
AZ20540	655905	WMWGREAP_1239
AZ20541	655905	WMWGREAP_1239
AZ20542	655905	WMWGREAP_1239
AZ20543	655905	WMWGREAP_1239
AZ20544	655905	WMWGREAP_1239
AZ20545	655905	WMWGREAP_1239
AZ20546	655905	WMWGREAP_1239
AZ20547	655917	WMWGREAP_1239
AZ20548	655917	WMWGREAP_1239
AZ20549	655917	WMWGREAP_1239
AZ20550	655917	WMWGREAP_1239
AZ20551	655917	WMWGREAP_1239
AZ20552	655917	WMWGREAP_1239
AZ20553	655917	WMWGREAP_1239
AZ20554	655917	WMWGREAP_1239
AZ20683	655917	WMWGREAP_1239

AZ20684	655917	WMWGREAP_1239
AZ20685	655951	WMWGREAP_1239
AZ20686	655951	WMWGREAP_1239
AZ20687	655951	WMWGREAP_1239
AZ20688	655951	WMWGREAP_1239
AZ20689	655951	WMWGREAP_1239
AZ20690	655951	WMWGREAP_1239
AZ20691	655951	WMWGREAP_1239
AZ20692	655951	WMWGREAP_1239
AZ20693	655951	WMWGREAP_1239
AZ20694	655951	WMWGREAP_1239
AZ20695	655952	WMWGREAP_1239
AZ20696	655952	WMWGREAP_1239
AZ20697	655952	WMWGREAP_1239
AZ20698	655952	WMWGREAP_1239
AZ20699	655952	WMWGREAP_1239
AZ20700	655952	WMWGREAP_1239
AZ20701	655952	WMWGREAP_1239
AZ20702	655952	WMWGREAP_1239
AZ20703	655952	WMWGREAP_1239
AZ20704	655952	WMWGREAP_1239
AZ20705	655953	WMWGREAP_1239
AZ20706	655953	WMWGREAP_1239

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1239

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ20527	655495	WMWGREAP_1239
AZ20528	655495	WMWGREAP_1239
AZ20529	655495	WMWGREAP_1239
AZ20530	655495	WMWGREAP_1239
AZ20531	655495	WMWGREAP_1239
AZ20532	655495	WMWGREAP_1239
AZ20533	655495	WMWGREAP_1239
AZ20534	655495	WMWGREAP_1239
AZ20535	655495	WMWGREAP_1239
AZ20536	655495	WMWGREAP_1239
AZ20537	655496	WMWGREAP_1239
AZ20538	655496	WMWGREAP_1239
AZ20539	655496	WMWGREAP_1239
AZ20540	655496	WMWGREAP_1239
AZ20541	655496	WMWGREAP_1239
AZ20542	655496	WMWGREAP_1239
AZ20543	655496	WMWGREAP_1239
AZ20544	655496	WMWGREAP_1239
AZ20545	655496	WMWGREAP_1239
AZ20546	655496	WMWGREAP_1239
AZ20547	655497	WMWGREAP_1239
AZ20548	655497	WMWGREAP_1239
AZ20549	655497	WMWGREAP_1239
AZ20550	655497	WMWGREAP_1239
AZ20551	655497	WMWGREAP_1239
AZ20552	655497	WMWGREAP_1239
AZ20553	655497	WMWGREAP_1239
AZ20554	655497	WMWGREAP_1239
AZ20683	655709	WMWGREAP_1239

AZ20684	655709	WMWGREAP_1239
AZ20685	655709	WMWGREAP_1239
AZ20686	655709	WMWGREAP_1239
AZ20687	655709	WMWGREAP_1239
AZ20688	655709	WMWGREAP_1239
AZ20689	655709	WMWGREAP_1239
AZ20690	655709	WMWGREAP_1239
AZ20691	655709	WMWGREAP_1239
AZ20692	655709	WMWGREAP_1239
AZ20693	655710	WMWGREAP_1239
AZ20694	655710	WMWGREAP_1239
AZ20695	655710	WMWGREAP_1239
AZ20696	655710	WMWGREAP_1239
AZ20697	655710	WMWGREAP_1239
AZ20698	655710	WMWGREAP_1239
AZ20699	655710	WMWGREAP_1239
AZ20700	655710	WMWGREAP_1239
AZ20701	655710	WMWGREAP_1239
AZ20702	655710	WMWGREAP_1239
AZ20703	655711	WMWGREAP_1239
AZ20704	655711	WMWGREAP_1239
AZ20705	655711	WMWGREAP_1239
AZ20706	655711	WMWGREAP_1239

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

TDS

Greene County Ash Pond

WMWGREAP_1239

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ20527	655462	WMWGREAP_1239
AZ20528	655462	WMWGREAP_1239
AZ20529	655462	WMWGREAP_1239
AZ20530	655462	WMWGREAP_1239
AZ20531	655462	WMWGREAP_1239
AZ20532	655462	WMWGREAP_1239
AZ20533	655462	WMWGREAP_1239
AZ20534	655462	WMWGREAP_1239
AZ20535	655462	WMWGREAP_1239
AZ20536	655462	WMWGREAP_1239
AZ20537	655463	WMWGREAP_1239
AZ20538	655463	WMWGREAP_1239
AZ20539	655463	WMWGREAP_1239
AZ20540	655463	WMWGREAP_1239
AZ20541	655463	WMWGREAP_1239
AZ20542	655463	WMWGREAP_1239
AZ20543	655463	WMWGREAP_1239
AZ20544	655463	WMWGREAP_1239
AZ20545	655463	WMWGREAP_1239
AZ20546	655463	WMWGREAP_1239
AZ20547	655674	WMWGREAP_1239
AZ20548	655674	WMWGREAP_1239
AZ20549	655674	WMWGREAP_1239
AZ20550	655674	WMWGREAP_1239
AZ20551	655674	WMWGREAP_1239
AZ20552	655674	WMWGREAP_1239
AZ20553	655674	WMWGREAP_1239
AZ20554	655674	WMWGREAP_1239
AZ20683	655674	WMWGREAP_1239

AZ20684	655674	WMWGREAP_1239
AZ20685	655675	WMWGREAP_1239
AZ20686	655675	WMWGREAP_1239
AZ20687	655675	WMWGREAP_1239
AZ20688	655675	WMWGREAP_1239
AZ20689	655675	WMWGREAP_1239
AZ20690	655675	WMWGREAP_1239
AZ20691	655675	WMWGREAP_1239
AZ20692	655675	WMWGREAP_1239
AZ20693	655675	WMWGREAP_1239
AZ20694	655675	WMWGREAP_1239
AZ20695	655754	WMWGREAP_1239
AZ20696	655754	WMWGREAP_1239
AZ20697	655754	WMWGREAP_1239
AZ20698	655754	WMWGREAP_1239
AZ20699	655754	WMWGREAP_1239
AZ20700	655754	WMWGREAP_1239
AZ20701	655754	WMWGREAP_1239
AZ20702	655755	WMWGREAP_1239
AZ20703	655755	WMWGREAP_1239
AZ20704	655755	WMWGREAP_1239
AZ20705	655755	WMWGREAP_1239
AZ20706	655755	WMWGREAP_1239

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - AZ20534
    - AZ20548
    - AZ20554
    - AZ20689
    - AZ20691
    - AZ20697
    - AZ20704

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Anions

Greene County Ash Pond

WMWGREAP_1239

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
AZ20527	655978, 655981, & 655816	WMWGREAP_1239
AZ20528	655978, 655981, & 655816	WMWGREAP_1239
AZ20529	655978, 655981, & 655816	WMWGREAP_1239
AZ20530	655978, 655981, & 655816	WMWGREAP_1239
AZ20531	655978, 655981, & 655816	WMWGREAP_1239
AZ20532	655978, 655981, & 655816	WMWGREAP_1239
AZ20533	655978, 655981, & 655816	WMWGREAP_1239
AZ20534	655978, 655981, & 655816	WMWGREAP_1239
AZ20535	655978, 655981, & 655816	WMWGREAP_1239
AZ20536	655978, 655981, & 655816	WMWGREAP_1239
AZ20537	655979, 655982, & 655817	WMWGREAP_1239
AZ20538	655979, 655982, & 655817	WMWGREAP_1239
AZ20539	655979, 655982, & 655817	WMWGREAP_1239
AZ20540	655979, 655982, & 655817	WMWGREAP_1239
AZ20541	655979, 655982, & 655817	WMWGREAP_1239
AZ20542	655979, 655982, & 655817	WMWGREAP_1239
AZ20543	655979, 655982, & 655817	WMWGREAP_1239
AZ20544	655979, 655982, & 655817	WMWGREAP_1239
AZ20545	655979, 655982, & 655817	WMWGREAP_1239
AZ20546	655979, 655982, & 655817	WMWGREAP_1239
AZ20547	655980, 655983, & 655818	WMWGREAP_1239
AZ20548	655980, 655983, & 655818	WMWGREAP_1239
AZ20549	655980, 655983, & 655818	WMWGREAP_1239
AZ20550	655980, 655983, & 655818	WMWGREAP_1239
AZ20551	655980, 655983, & 655818	WMWGREAP_1239
AZ20552	655980, 655983, & 655818	WMWGREAP_1239
AZ20553	655980, 655983, & 655818	WMWGREAP_1239
AZ20554	655980, 655983, & 655818	WMWGREAP_1239
AZ20683	655984, 655987, & 655819	WMWGREAP_1239

AZ20684	655984, 655987, & 655819	WMWGREAP_1239
AZ20685	655984, 655987, & 655819	WMWGREAP_1239
AZ20686	655984, 655987, & 655819	WMWGREAP_1239
AZ20687	655984, 655987, & 655819	WMWGREAP_1239
AZ20688	655984, 655987, & 655819	WMWGREAP_1239
AZ20689	655984, 655987, & 655819	WMWGREAP_1239
AZ20690	655984, 655987, & 655819	WMWGREAP_1239
AZ20691	655984, 655987, & 655819	WMWGREAP_1239
AZ20692	655984, 655987, & 655819	WMWGREAP_1239
AZ20693	655985, 655988, & 655820	WMWGREAP_1239
AZ20694	655985, 655988, & 655820	WMWGREAP_1239
AZ20695	655985, 655988, & 655820	WMWGREAP_1239
AZ20696	655985, 655988, & 655820	WMWGREAP_1239
AZ20697	655985, 655988, & 655820	WMWGREAP_1239
AZ20698	655985, 655988, & 655820	WMWGREAP_1239
AZ20699	655985, 655988, & 655820	WMWGREAP_1239
AZ20700	655985, 655988, & 655820	WMWGREAP_1239
AZ20701	655985, 655988, & 655820	WMWGREAP_1239
AZ20702	655985, 655988, & 655820	WMWGREAP_1239
AZ20703	655986, 655989, & 655821	WMWGREAP_1239
AZ20704	655986, 655989, & 655821	WMWGREAP_1239
AZ20705	655986, 655989, & 655821	WMWGREAP_1239
AZ20706	655986, 655989, & 655821	WMWGREAP_1239

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
AZ20527	Sulfate	x10
AZ20528	Chloride	x2
AZ20529	Sulfate	x40
AZ20530	Sulfate	x4
AZ20531	Sulfate	x8
AZ20532	Sulfate	x8
AZ20533	Sulfate	x4
AZ20535	Sulfate	x8
AZ20536	Sulfate	x20
AZ20538	Sulfate & Chloride	x10 & x2
AZ20539	Chloride	x4
AZ20540	Chloride	x4
AZ20541	Sulfate & Chloride	x40 & x4
AZ20542	Sulfate & Chloride	x10 & x2
AZ20543	Sulfate	x2
AZ20544	Sulfate	x10
AZ20545	Chloride	x2

AZ20546	Chloride	x4
AZ20547	Sulfate	x4
AZ20549	Sulfate	x8
AZ20550	Sulfate	x20
AZ20551	Sulfate	x10
AZ20552	Sulfate	x8
AZ20695	Sulfate	x3
AZ20696	Sulfate	x8
AZ20698	Sulfate	x16
AZ20699	Sulfate & Chloride	x2 & x3
AZ20700	Sulfate & Chloride	x2 & x3
AZ20701	Chloride	x3
AZ20703	Sulfate	x10
AZ20705	Sulfate	x4
AZ20706	Sulfate	x25

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 9/9/19 14:48
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20527

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:02		1.015	0.157	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:27		10.15	111	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:02		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 10:55		1.015	0.0220	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 10:55		1.015	0.0350	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 10:55		1.015	0.0154	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 10:55		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	666	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:14	9/17/19 08:14		1	14.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:40	9/17/19 13:40		1	0.163	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:29	9/16/19 10:29		10	385	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/9/19 14:44	9/9/19 14:44			936.69	uS/cm			FA
pH	9/9/19 14:44	9/9/19 14:44			6.13	SU			FA
Temperature	9/9/19 14:44	9/9/19 14:44			24.39	C			FA
Turbidity	9/9/19 14:44	9/9/19 14:44			2.37	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:48
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AZ20527

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:48
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: AZ20527

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 9/9/19 16:05
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20528

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:05		1.015	0.0350	mg/L	0.03	0.1	J
* Calcium, Total	9/18/19 11:25	9/19/19 11:30		10.15	98.5	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:05		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 10:58		1.015	0.00806	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 10:58		1.015	0.111	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 10:58		1.015	0.00413	mg/L	0.002	0.005	J
* Lead, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 10:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	371	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:25	9/17/19 08:25		2	23.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:41	9/17/19 13:41		1	0.121	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:30	9/16/19 10:30		1	6.56	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/9/19 16:00	9/9/19 16:00			661.95	uS/cm			FA
pH	9/9/19 16:00	9/9/19 16:00			6.22	SU			FA
Temperature	9/9/19 16:00	9/9/19 16:00			23.31	C			FA
Turbidity	9/9/19 16:00	9/9/19 16:00			0.95	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/9/19 16:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AZ20528

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/9/19 16:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: AZ20528

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 9/10/19 09:20
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20529

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:08		1.015	0.398	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:33		10.15	147	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:08		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:00		1.015	0.0226	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:00		1.015	0.0283	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:00		1.015	0.104	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:00		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	1740	mg/L		100	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:17	9/17/19 08:17		1	18.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:42	9/17/19 13:42		1	0.179	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:40	9/16/19 10:40		40	992	mg/L	20.00	40	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 09:16	9/10/19 09:16			1929.79	uS/cm			FA
pH	9/10/19 09:16	9/10/19 09:16			5.88	SU			FA
Temperature	9/10/19 09:16	9/10/19 09:16			21.80	C			FA
Turbidity	9/10/19 09:16	9/10/19 09:16			1.74	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AZ20529

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: AZ20529

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 9/10/19 10:24
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20530

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:11		1.015	0.105	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 10:11		1.015	9.28	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:11		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:03		1.015	0.101	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:03		1.015	0.0127	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	182	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:18	9/17/19 08:18		1	17.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:43	9/17/19 13:43		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:33	9/16/19 10:33		4	66.0	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 10:21	9/10/19 10:21			289.51	uS/cm			FA
pH	9/10/19 10:21	9/10/19 10:21			5.15	SU			FA
Temperature	9/10/19 10:21	9/10/19 10:21			21.23	C			FA
Turbidity	9/10/19 10:21	9/10/19 10:21			0.5	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:24
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AZ20530

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:24
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: AZ20530

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 9/10/19 11:34
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20531

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:14		1.015	0.153	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 10:14		1.015	30.5	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:14		1.015	0.0598	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:06		1.015	0.0233	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:06		1.015	0.134	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	218	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:19	9/17/19 08:19		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:45	9/17/19 13:45		1	0.260	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:34	9/16/19 10:34		8	89.3	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 11:29	9/10/19 11:29			379.65	uS/cm			FA
pH	9/10/19 11:29	9/10/19 11:29			6.69	SU			FA
Temperature	9/10/19 11:29	9/10/19 11:29			21.16	C			FA
Turbidity	9/10/19 11:29	9/10/19 11:29			0.16	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AZ20531

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: AZ20531

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12 DUP

Location Code: WMWGREAP
Collected: 9/10/19 11:34
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20532

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:17		1.015	0.151	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 10:17		1.015	30.4	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:17		1.015	0.0592	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:08		1.015	0.0220	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:08		1.015	0.123	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:08		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	218	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:20	9/17/19 08:20		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:46	9/17/19 13:46		1	0.260	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:35	9/16/19 10:35		8	88.7	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 11:29	9/10/19 11:29			379.65	uS/cm			FA
pH	9/10/19 11:29	9/10/19 11:29			6.69	SU			FA
Temperature	9/10/19 11:29	9/10/19 11:29			21.16	C			FA
Turbidity	9/10/19 11:29	9/10/19 11:29			0.16	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AZ20532

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: AZ20532

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 9/10/19 12:34
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20533

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:20		1.015	0.160	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 10:20		1.015	28.4	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:20		1.015	0.0862	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:11		1.015	0.0568	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:11		1.015	0.0609	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	198	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:21	9/17/19 08:21		1	11.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:47	9/17/19 13:47		1	0.194	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:36	9/16/19 10:36		4	63.1	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 12:29	9/10/19 12:29			348.02	uS/cm			FA
pH	9/10/19 12:29	9/10/19 12:29			6.58	SU			FA
Temperature	9/10/19 12:29	9/10/19 12:29			24.07	C			FA
Turbidity	9/10/19 12:29	9/10/19 12:29			0.26	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 12:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AZ20533

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 12:34
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: AZ20533

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 9/10/19 12:45
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20534

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:22		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:22		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 10:22		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:13		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:23	9/17/19 08:23		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:48	9/17/19 13:48		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:37	9/16/19 10:37		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 9/10/19 12:45
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20534

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 9/10/19 12:45
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20534

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 9/10/19 13:42
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20535

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:25		1.015	0.141	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 10:25		1.015	27.7	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:25		1.015	0.124	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:16		1.015	0.00378	mg/L	0.001	0.005	J
* Barium, Total	9/13/19 13:02	9/16/19 11:16		1.015	0.0651	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:16		1.015	0.0200	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:16		1.015	0.0205	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	201	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:24	9/17/19 08:24		1	8.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:49	9/17/19 13:49		1	0.191	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:39	9/16/19 10:39		8	87.2	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 13:36	9/10/19 13:36			348.12	uS/cm			FA
pH	9/10/19 13:36	9/10/19 13:36			5.91	SU			FA
Temperature	9/10/19 13:36	9/10/19 13:36			22.75	C			FA
Turbidity	9/10/19 13:36	9/10/19 13:36			0.21	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 13:42
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AZ20535

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 13:42
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: AZ20535

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 9/10/19 15:20
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20536

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:28		1.015	0.293	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:36		10.15	160	mg/L	1.015	5.075	RA
* Lithium, Total	9/18/19 11:25	9/19/19 10:28		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:19		1.015	0.00176	mg/L	0.001	0.005	J
* Barium, Total	9/13/19 13:02	9/16/19 11:19		1.015	0.0787	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:19		1.015	0.146	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	854	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 08:26	9/17/19 08:26		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 13:51	9/17/19 13:51		1	0.0831	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:41	9/16/19 10:41		20	499	mg/L	10.00	20	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 15:16	9/10/19 15:16			1087.19	uS/cm			FA
pH	9/10/19 15:16	9/10/19 15:16			5.79	SU			FA
Temperature	9/10/19 15:16	9/10/19 15:16			23.49	C			FA
Turbidity	9/10/19 15:16	9/10/19 15:16			0.32	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/23/19

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 15:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ20536

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.0974	0.0979	0.103	0.085 to 0.115	95.6	70 to 130	0.485	20
AZ20536	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.170	0.167	0.104	0.085 to 0.115	91.6	70 to 130	1.93	20
AZ20536	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0977	0.0957	0.101	0.085 to 0.115	97.7	70 to 130	2.13	20
AZ20536	Boron, Total	mg/L	-0.00293	0.0650254	1.00	1.32	1.34	0.988	0.85 to 1.15	103	70 to 130	0.969	20
AZ20536	Calcium, Total	mg/L	0.00193	0.1518	5.00	162	165	5.12	4.25 to 5.75	41.7	70 to 130	1.83	20
AZ20536	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0924	0.0931	0.101	0.085 to 0.115	92.4	70 to 130	0.694	20
AZ20536	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.235	0.239	0.106	0.085 to 0.115	88.7	70 to 130	1.98	20
AZ20536	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.0935	0.0948	0.102	0.085 to 0.115	93.5	70 to 130	1.45	20
AZ20536	Mercury, Total by CVAA	mg/L	0.0000517	0.0005	0.004	0.00388	0.00401	0.00393	0.0034 to 0.0046	96.9	70 to 130	3.46	20
AZ20536	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.235	0.237	0.201	0.17 to 0.23	117	70 to 130	0.914	20
AZ20536	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0857	0.0839	0.0981	0.085 to 0.115	85.7	70 to 130	2.21	20
AZ20536	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.104	0.105	0.085 to 0.115	106	70 to 130	1.90	20
AZ20536	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0942	0.0926	0.0964	0.085 to 0.115	94.2	70 to 130	1.72	20
AZ20536	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.0889	0.0878	0.105	0.085 to 0.115	88.9	70 to 130	1.24	20
AZ20536	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.0826	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/23/19

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 15:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: AZ20536

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20536	Chloride	mg/L	0.0587	0.50	10.0	20.2	10.9	10.1	9 to 11	93.0	80 to 120	0.00	20
AZ20536	Fluoride	mg/L	0.020	0.05	2.50	2.62	0.083	2.62	2.25 to 2.75	101	80 to 120	0.120	20
AZ20536	Sulfate	mg/L	-0.380	0.50	400	899	501	19.2	18 to 22	100	80 to 120	0.400	20
AZ20536	Solids, Dissolved	mg/L	2.00	25	50.0		852	54.0	40 to 60	108	80 to 120	0.117	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments: Recovery for Calcium is out of spec. Spike amount is less than 30% of the sample amount. LBM 9/23/19

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 9/10/19 16:23
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20537

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:43		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:43		1.015	12.8	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:43		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:34		1.015	0.0554	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:34		1.015	0.0131	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	112	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:28	9/17/19 09:28		1	5.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:02	9/17/19 14:02		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:53	9/16/19 10:53		1	27.1	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/10/19 16:19	9/10/19 16:19			178.76	uS/cm			FA
pH	9/10/19 16:19	9/10/19 16:19			4.87	SU			FA
Temperature	9/10/19 16:19	9/10/19 16:19			23.29	C			FA
Turbidity	9/10/19 16:19	9/10/19 16:19			1.16	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 16:23
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ20537

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 16:23
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: AZ20537

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 9/10/19 09:20
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20538

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:46		1.015	1.23	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:45		10.15	116	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:46		1.015	0.128	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:37		1.015	0.0108	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:37		1.015	0.206	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:37		1.015	0.0177	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	586	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:29	9/17/19 09:29		2	28.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:03	9/17/19 14:03		1	0.178	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:03	9/16/19 11:03		10	115	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 09:17	9/10/19 09:17			941.30	uS/cm			FA
pH	9/10/19 09:17	9/10/19 09:17			6.43	SU			FA
Temperature	9/10/19 09:17	9/10/19 09:17			20.98	C			FA
Turbidity	9/10/19 09:17	9/10/19 09:17			3.32	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AZ20538

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: AZ20538

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 9/10/19 10:10
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20539

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:49		1.015	1.82	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:48		10.15	91.0	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:49		1.015	0.0928	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:40		1.015	0.110	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:40		1.015	0.0108	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:40		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	602	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:30	9/17/19 09:30		4	56.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:04	9/17/19 14:04		1	0.113	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:55	9/16/19 10:55		1	37.4	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 10:08	9/10/19 10:08			965.93	uS/cm			FA
pH	9/10/19 10:08	9/10/19 10:08			6.31	SU			FA
Temperature	9/10/19 10:08	9/10/19 10:08			20.73	C			FA
Turbidity	9/10/19 10:08	9/10/19 10:08			3.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:10
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AZ20539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:10
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: AZ20539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-8 DUP

Location Code: WMWGREAP
Collected: 9/10/19 10:10
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20540

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:52		1.015	1.85	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:51		10.15	92.8	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:52		1.015	0.0931	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:42		1.015	0.111	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:42		1.015	0.0106	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 10:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	600	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:32	9/17/19 09:32		4	55.5	mg/L	2.00	4	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:05	9/17/19 14:05		1	0.124	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 10:56	9/16/19 10:56		1	36.9	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 10:08	9/10/19 10:08			965.93	uS/cm			FA
pH	9/10/19 10:08	9/10/19 10:08			6.31	SU			FA
Temperature	9/10/19 10:08	9/10/19 10:08			20.73	C			FA
Turbidity	9/10/19 10:08	9/10/19 10:08			3.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:10
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-8 DUP

Laboratory ID Number: AZ20540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 10:10
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-8 DUP

Laboratory ID Number: AZ20540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 9/10/19 11:05
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20541

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:55		1.015	0.764	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:54		10.15	188	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:55		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:45		1.015	0.0887	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:45		1.015	0.00340	mg/L	0.002	0.005	J
* Lead, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:45		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	1100	mg/L		100	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:33	9/17/19 09:33		4	67.0	mg/L	2.00	4	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:07	9/17/19 14:07		1	0.0860	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:05	9/16/19 11:05		40	409	mg/L	20.00	40	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 11:00	9/10/19 11:00			1562.06	uS/cm			FA
pH	9/10/19 11:00	9/10/19 11:00			6.39	SU			FA
Temperature	9/10/19 11:00	9/10/19 11:00			21.50	C			FA
Turbidity	9/10/19 11:00	9/10/19 11:00			3.54	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AZ20541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: AZ20541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 9/10/19 11:48
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20542

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:58		1.015	1.83	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:57		10.15	164	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 10:58		1.015	0.0267	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 11:48		1.015	0.0789	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:48		1.015	0.00306	mg/L	0.002	0.005	J
* Lead, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:48		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	744	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:34	9/17/19 09:34		2	27.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:08	9/17/19 14:08		1	0.227	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:06	9/16/19 11:06		10	140	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 11:44	9/10/19 11:44			1167.91	uS/cm			FA
pH	9/10/19 11:44	9/10/19 11:44			6.55	SU			FA
Temperature	9/10/19 11:44	9/10/19 11:44			21.51	C			FA
Turbidity	9/10/19 11:44	9/10/19 11:44			3.44	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:48
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AZ20542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:48
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: AZ20542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 9/10/19 13:05
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20543

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:01		1.015	1.27	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:00		10.15	69.3	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:01		1.015	0.112	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:50		1.015	0.0132	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:50		1.015	0.199	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:50		1.015	0.0191	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:50		1.015	0.00757	mg/L	0.002	0.01	J
* Selenium, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:50		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	351	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:35	9/17/19 09:35		1	16.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:09	9/17/19 14:09		1	0.226	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:07	9/16/19 11:07		2	50.5	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 12:58	9/10/19 12:58			587.20	uS/cm			FA
pH	9/10/19 12:58	9/10/19 12:58			6.33	SU			FA
Temperature	9/10/19 12:58	9/10/19 12:58			20.92	C			FA
Turbidity	9/10/19 12:58	9/10/19 12:58			3.88	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 13:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AZ20543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 13:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: AZ20543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 9/10/19 14:05
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20544

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:04		1.015	1.49	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:09		10.15	125	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:04		1.015	0.765	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:53		1.015	0.0263	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:53		1.015	0.0685	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:53		1.015	0.0278	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:53		1.015	0.0125	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:53		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	658	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:36	9/17/19 09:36		1	13.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:10	9/17/19 14:10		1	0.209	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:12	9/16/19 11:12		10	193	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/10/19 14:00	9/10/19 14:00			986.16	uS/cm			FA
pH	9/10/19 14:00	9/10/19 14:00			6.11	SU			FA
Temperature	9/10/19 14:00	9/10/19 14:00			21.35	C			FA
Turbidity	9/10/19 14:00	9/10/19 14:00			5.41	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 14:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AZ20544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 14:05
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: AZ20544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 9/9/19 14:35
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20545

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:07		1.015	1.73	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:12		10.15	83.2	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:07		1.015	0.408	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:55		1.015	0.0498	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:55		1.015	0.101	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:55		1.015	0.0174	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:55		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	406	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:38	9/17/19 09:38		2	25.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:11	9/17/19 14:11		1	0.157	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:02	9/16/19 11:02		1	17.8	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/9/19 14:31	9/9/19 14:31			447.88	uS/cm			FA
pH	9/9/19 14:31	9/9/19 14:31			6.28	SU			FA
Temperature	9/9/19 14:31	9/9/19 14:31			20.84	C			FA
Turbidity	9/9/19 14:31	9/9/19 14:31			4.46	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AZ20545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: AZ20545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-18 DUP

Location Code: WMWGREAP
Collected: 9/9/19 14:35
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20546

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:10		1.015	1.73	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:15		10.15	82.4	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:10		1.015	0.409	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 11:58		1.015	0.0494	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 11:58		1.015	0.0992	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 11:58		1.015	0.0177	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 11:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/12/19 10:03	9/16/19 07:12		1	412	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:39	9/17/19 09:39		4	25.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:13	9/17/19 14:13		1	0.172	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:08	9/16/19 11:08		1	17.2	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/9/19 14:31	9/9/19 14:31			447.88	uS/cm			FA
pH	9/9/19 14:31	9/9/19 14:31			6.28	SU			FA
Temperature	9/9/19 14:31	9/9/19 14:31			20.84	C			FA
Turbidity	9/9/19 14:31	9/9/19 14:31			4.46	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-18 DUP

Laboratory ID Number: AZ20546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Arsenic, Total	mg/L	0.00000704	0.0001474	0.10	0.152	0.163	0.103	0.085 to 0.115	103	70 to 130	6.54	20
AZ20546	Barium, Total	mg/L	0.00000979	0.0002	0.10	0.205	0.213	0.104	0.085 to 0.115	106	70 to 130	3.78	20
AZ20546	Beryllium, Total	mg/L	0.0000108	0.00088	0.10	0.0980	0.100	0.101	0.085 to 0.115	98.0	70 to 130	2.43	20
AZ20546	Boron, Total	mg/L	-0.00293	0.0650254	1.00	2.75	2.74	0.988	0.85 to 1.15	102	70 to 130	0.368	20
AZ20546	Calcium, Total	mg/L	0.00193	0.1518	5.00	87.7	88.1	5.12	4.25 to 5.75	105	70 to 130	0.476	20
AZ20546	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0977	0.105	0.101	0.085 to 0.115	97.7	70 to 130	7.56	20
AZ20546	Cobalt, Total	mg/L	-0.00000043	0.0001474	0.10	0.121	0.124	0.106	0.085 to 0.115	104	70 to 130	2.49	20
AZ20546	Chromium, Total	mg/L	-0.0000298	0.00044	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.41	20
AZ20546	Mercury, Total by CVAA	mg/L	0.0000423	0.0005	0.004	0.00370	0.00377	0.00384	0.0034 to 0.0046	92.4	70 to 130	1.88	20
AZ20546	Lithium, Total	mg/L	-0.000000200	0.0154	0.20	0.637	0.635	0.201	0.17 to 0.23	114	70 to 130	0.291	20
AZ20546	Molybdenum, Total	mg/L	0.00000288	0.0001474	0.10	0.0981	0.102	0.0981	0.085 to 0.115	98.1	70 to 130	3.97	20
AZ20546	Lead, Total	mg/L	0.00000320	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	1.20	20
AZ20546	Antimony, Total	mg/L	0.000145	0.00066	0.10	0.0969	0.104	0.0964	0.085 to 0.115	96.9	70 to 130	7.13	20
AZ20546	Selenium, Total	mg/L	0.0000525	0.00066	0.10	0.103	0.109	0.105	0.085 to 0.115	103	70 to 130	6.06	20
AZ20546	Thallium, Total	mg/L	0.00000328	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.75	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/9/19 14:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-18 DUP

Laboratory ID Number: AZ20546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20546	Chloride	mg/L	0.0968	0.50	40.0	65.4	24.9	10.1	9 to 11	101	80 to 120	0.800	20
AZ20546	Fluoride	mg/L	0.0262	0.05	2.50	2.73	0.162	2.63	2.25 to 2.75	102	80 to 120	5.99	20
AZ20546	Sulfate	mg/L	-0.416	0.50	20.0	37.4	17.6	19.1	18 to 22	101	80 to 120	2.30	20
AZ20546	Solids, Dissolved	mg/L	2.00	25	50.0		415	54.0	40 to 60	108	80 to 120	0.363	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 9/9/19 16:40
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20547

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:38		1.015	2.33	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:07		10.15	66.4	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 09:38		1.015	0.571	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:19		1.015	0.356	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 12:19		1.015	0.319	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:19		1.015	0.0121	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:19		1.015	0.0681	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	500	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:52	9/17/19 09:52		1	15.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:29	9/17/19 14:29		1	0.477	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:40	9/16/19 11:40		4	57.3	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/9/19 16:36	9/9/19 16:36			724.39	uS/cm			FA
pH	9/9/19 16:36	9/9/19 16:36			5.84	SU			FA
Temperature	9/9/19 16:36	9/9/19 16:36			21.04	C			FA
Turbidity	9/9/19 16:36	9/9/19 16:36			4.9	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/9/19 16:40
Customer ID:
Delivery Date: 9/11/19 15:46

Description:Greene County Ash Pond - MW-17

Laboratory ID Number: AZ20547

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/9/19 16:40
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: AZ20547

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 9/9/19 16:56
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20548

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:41		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 09:41		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 09:41		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:53	9/17/19 09:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:31	9/17/19 14:31		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:41	9/16/19 11:41		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 9/9/19 16:56
Customer ID:
Delivery Date: 9/11/19 15:46

Description:Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 9/9/19 16:56
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 9/10/19 09:42
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20549

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:44		1.015	1.69	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:10		10.15	86.3	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 09:44		1.015	0.581	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:24		1.015	0.0786	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 12:24		1.015	0.0754	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:24		1.015	0.0162	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:24		1.015	0.000396	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	453	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:54	9/17/19 09:54		1	12.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:32	9/17/19 14:32		1	0.267	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:42	9/16/19 11:42		8	68.0	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/10/19 09:39	9/10/19 09:39			728.39	uS/cm			FA
pH	9/10/19 09:39	9/10/19 09:39			6.35	SU			FA
Temperature	9/10/19 09:39	9/10/19 09:39			20.34	C			FA
Turbidity	9/10/19 09:39	9/10/19 09:39			4.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:42
Customer ID:
Delivery Date: 9/11/19 15:46

Description:Greene County Ash Pond - MW-16

Laboratory ID Number: AZ20549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 09:42
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: AZ20549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 9/10/19 11:20
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20550

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:47		1.015	0.734	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:13		10.15	97.5	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 09:47		1.015	0.545	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:27		1.015	0.0294	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:27		1.015	0.0139	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:27		1.015	0.000223	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	576	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:55	9/17/19 09:55		1	10.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:33	9/17/19 14:33		1	0.180	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:43	9/16/19 11:43		20	291	mg/L	10.00	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/10/19 11:17	9/10/19 11:17			793.74	uS/cm			FA
pH	9/10/19 11:17	9/10/19 11:17			5.61	SU			FA
Temperature	9/10/19 11:17	9/10/19 11:17			20.03	C			FA
Turbidity	9/10/19 11:17	9/10/19 11:17			1.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description:Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ20550

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 11:20
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: AZ20550

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 9/10/19 12:43
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20551

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:50		1.015	0.730	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:16		10.15	57.2	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 09:50		1.015	0.600	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:29		1.015	0.0348	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:29		1.015	0.0201	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:29		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	358	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:56	9/17/19 09:56		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:34	9/17/19 14:34		1	0.122	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:44	9/16/19 11:44		10	150	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/10/19 12:39	9/10/19 12:39			527.45	uS/cm			FA
pH	9/10/19 12:39	9/10/19 12:39			5.82	SU			FA
Temperature	9/10/19 12:39	9/10/19 12:39			19.78	C			FA
Turbidity	9/10/19 12:39	9/10/19 12:39			0.04	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 12:43
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AZ20551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 12:43
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: AZ20551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 9/10/19 14:45
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20552

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:53		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 09:53		1.015	32.8	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 09:53		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:32		1.015	0.0967	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:32		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	167	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:58	9/17/19 09:58		1	4.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:35	9/17/19 14:35		1	0.0545	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:46	9/16/19 11:46		8	83.4	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/10/19 14:42	9/10/19 14:42			208.45	uS/cm			FA
pH	9/10/19 14:42	9/10/19 14:42			4.90	SU			FA
Temperature	9/10/19 14:42	9/10/19 14:42			22.16	C			FA
Turbidity	9/10/19 14:42	9/10/19 14:42			0.46	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 14:45
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AZ20552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 14:45
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: AZ20552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 9/10/19 16:35
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20553

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:56		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 09:56		1.015	30.7	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 09:56		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:35		1.015	0.0338	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:35		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	107	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 09:59	9/17/19 09:59		1	1.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:37	9/17/19 14:37		1	0.0914	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:47	9/16/19 11:47		1	12.4	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/10/19 16:32	9/10/19 16:32			144.40	uS/cm			FA
pH	9/10/19 16:32	9/10/19 16:32			5.85	SU			FA
Temperature	9/10/19 16:32	9/10/19 16:32			22.92	C			FA
Turbidity	9/10/19 16:32	9/10/19 16:32			0.39	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/10/19 16:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AZ20553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/10/19 16:35
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: AZ20553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 9/10/19 17:00
Customer ID:
Submittal Date: 9/11/19 15:46

Laboratory ID Number: AZ20554

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 09:59		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 09:59		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 09:59		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/12/19 12:58	9/13/19 11:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:00	9/17/19 10:00		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:38	9/17/19 14:38		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 11:48	9/16/19 11:48		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 9/10/19 17:00
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20554	Mercury, Total by CVAA	mg/L	0.0000459	0.0005	0.004	0.00381	0.00393	0.00378	0.0034 to 0.0046	95.1	70 to 130	3.27	20
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
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Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
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Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 9/10/19 17:00
Customer ID:
Delivery Date: 9/11/19 15:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20554	Chloride	mg/L	0.0884	0.50	10.0	10.3	0.212	9.99	9 to 11	103	80 to 120	0.00	20
AZ20554	Fluoride	mg/L	0.0305	0.05	2.50	2.54	0.0105	2.65	2.25 to 2.75	102	80 to 120	0.00	20
AZ20554	Sulfate	mg/L	-0.398	0.50	20.0	19.1	-0.395	19.2	18 to 22	95.5	80 to 120	0.00	20

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 9/11/19 10:00
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20683

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:02		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:02		1.015	3.98	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:02		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:40		1.015	0.0468	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:40		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 10:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	40.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:15	9/17/19 10:15		1	2.34	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:51	9/17/19 14:51		1	0.0716	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:25	9/16/19 13:25		1	5.29	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 09:57	9/11/19 09:57			42.41	uS/cm			FA
pH	9/11/19 09:57	9/11/19 09:57			5.53	SU			FA
Temperature	9/11/19 09:57	9/11/19 09:57			20.07	C			FA
Turbidity	9/11/19 09:57	9/11/19 09:57			0.38	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:00
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AZ20683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:00
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: AZ20683

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 9/11/19 10:55
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20684

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:05		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:05		1.015	0.638	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:05		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:42		1.015	0.0574	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	27.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:16	9/17/19 10:16		1	1.70	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:52	9/17/19 14:52		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:26	9/16/19 13:26		1	1.29	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 10:52	9/11/19 10:52			24.24	uS/cm			FA
pH	9/11/19 10:52	9/11/19 10:52			4.85	SU			FA
Temperature	9/11/19 10:52	9/11/19 10:52			20.11	C			FA
Turbidity	9/11/19 10:52	9/11/19 10:52			0.73	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:55
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AZ20684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20684	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.101	0.0997	0.0997	0.085 to 0.115	101	70 to 130	1.48	20
AZ20684	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.165	0.163	0.105	0.085 to 0.115	107	70 to 130	0.917	20
AZ20684	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0947	0.0951	0.0927	0.085 to 0.115	94.7	70 to 130	0.430	20
AZ20684	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.02	1.01	0.994	0.85 to 1.15	102	70 to 130	1.37	20
AZ20684	Calcium, Total	mg/L	0.0334	0.1518	5.00	5.72	5.69	5.07	4.25 to 5.75	102	70 to 130	0.557	20
AZ20684	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.0995	0.0990	0.085 to 0.115	100	70 to 130	0.772	20
AZ20684	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.107	0.106	0.106	0.085 to 0.115	107	70 to 130	0.718	20
AZ20684	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.461	20
AZ20684	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.201	0.199	0.17 to 0.23	102	70 to 130	1.41	20
AZ20684	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0974	0.0977	0.0976	0.085 to 0.115	97.4	70 to 130	0.286	20
AZ20684	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.107	0.104	0.106	0.085 to 0.115	107	70 to 130	3.43	20
AZ20684	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0940	0.0957	0.0931	0.085 to 0.115	94.0	70 to 130	1.75	20
AZ20684	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.101	0.0992	0.0999	0.085 to 0.115	101	70 to 130	1.65	20
AZ20684	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.105	0.104	0.104	0.085 to 0.115	105	70 to 130	0.516	20
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:55
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: AZ20684

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20550	Solids, Dissolved	mg/L	1.00	25	50.0		568	53.0	40 to 60	106	80 to 120	0.699	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 9/11/19 11:50
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20685

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:19		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:19		1.015	1.98	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:19		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 12:58		1.015	0.246	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 12:58		1.015	0.000573	mg/L	0.0003	0.001	J
* Chromium, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 12:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 10:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	40.0	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:17	9/17/19 10:17		1	1.26	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:53	9/17/19 14:53		1	0.0649	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:27	9/16/19 13:27		1	10.6	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 11:45	9/11/19 11:45			50.80	uS/cm			FA
pH	9/11/19 11:45	9/11/19 11:45			4.33	SU			FA
Temperature	9/11/19 11:45	9/11/19 11:45			19.51	C			FA
Turbidity	9/11/19 11:45	9/11/19 11:45			0.4	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 11:50
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AZ20685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 11:50
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: AZ20685

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 9/11/19 13:10
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20686

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:22		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:22		1.015	0.158	mg/L	0.1	0.5	J
* Lithium, Total	9/18/19 11:25	9/19/19 10:22		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:01		1.015	0.0404	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:01		1.015	0.00265	mg/L	0.002	0.005	J
* Lead, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 10:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:19	9/17/19 10:19		1	1.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:54	9/17/19 14:54		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:28	9/16/19 13:28		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 13:07	9/11/19 13:07			16.02	uS/cm			FA
pH	9/11/19 13:07	9/11/19 13:07			3.96	SU			FA
Temperature	9/11/19 13:07	9/11/19 13:07			19.60	C			FA
Turbidity	9/11/19 13:07	9/11/19 13:07			0.37	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:10
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AZ20686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:10
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: AZ20686

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 9/11/19 14:05
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20687

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:25		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:25		1.015	0.925	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:25		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:04		1.015	0.0855	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 10:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	34.0	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:20	9/17/19 10:20		1	3.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:55	9/17/19 14:55		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:29	9/16/19 13:29		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 14:03	9/11/19 14:03			27.47	uS/cm			FA
pH	9/11/19 14:03	9/11/19 14:03			4.11	SU			FA
Temperature	9/11/19 14:03	9/11/19 14:03			19.26	C			FA
Turbidity	9/11/19 14:03	9/11/19 14:03			0.78	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 14:05
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AZ20687

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 14:05
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: AZ20687

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 9/11/19 17:07
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:28		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:28		1.015	22.2	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:28		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:06		1.015	0.0369	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:06		1.015	0.00404	mg/L	0.002	0.01	J
* Thallium, Total	9/13/19 13:02	9/16/19 13:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	100	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:21	9/17/19 10:21		1	1.15	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:57	9/17/19 14:57		1	0.0820	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:31	9/16/19 13:31		1	30.0	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	9/11/19 17:03	9/11/19 17:03			139.37	uS/cm			FA
pH	9/11/19 17:03	9/11/19 17:03			5.60	SU			FA
Temperature	9/11/19 17:03	9/11/19 17:03			22.25	C			FA
Turbidity	9/11/19 17:03	9/11/19 17:03			0.34	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:07
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ20688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:07
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: AZ20688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 9/11/19 17:30
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:31		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:31		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 10:31		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:22	9/17/19 10:22		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:58	9/17/19 14:58		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:32	9/16/19 13:32		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 9/11/19 17:30
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ20689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 9/11/19 17:30
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ20689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 9/11/19 09:20
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:34		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:34		1.015	6.96	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:34		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:12		1.015	0.0267	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:12		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	52.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:23	9/17/19 10:23		1	5.31	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 14:59	9/17/19 14:59		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:33	9/16/19 13:33		1	3.83	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 09:18	9/11/19 09:18			74.10	uS/cm			FA
pH	9/11/19 09:18	9/11/19 09:18			5.85	SU			FA
Temperature	9/11/19 09:18	9/11/19 09:18			19.47	C			FA
Turbidity	9/11/19 09:18	9/11/19 09:18			2.99	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 09:20
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AZ20690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 09:20
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: AZ20690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 9/11/19 10:20
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:37		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:37		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 10:37		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:25	9/17/19 10:25		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:00	9/17/19 15:00		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:34	9/16/19 13:34		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 9/11/19 10:20
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 9/11/19 10:20
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 9/11/19 10:35
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:40		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:40		1.015	2.17	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:40		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:17		1.015	0.0824	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:17		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	69.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:26	9/17/19 10:26		1	4.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:01	9/17/19 15:01		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 13:35	9/16/19 13:35		1	14.5	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 10:31	9/11/19 10:31			101.45	uS/cm			FA
pH	9/11/19 10:31	9/11/19 10:31			4.57	SU			FA
Temperature	9/11/19 10:31	9/11/19 10:31			19.44	C			FA
Turbidity	9/11/19 10:31	9/11/19 10:31			3.19	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AZ20692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20692	Mercury, Total by CVAA	mg/L	0.0000727	0.0005	0.004	0.00373	0.00372	0.00376	0.0034 to 0.0046	93.3	70 to 130	0.295	20
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: AZ20692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20692	Chloride	mg/L	0.108	0.50	10.0	14.4	4.09	10.1	9 to 11	102	80 to 120	1.70	20
AZ20692	Fluoride	mg/L	0.0423	0.05	2.50	2.25	0.0504	2.63	2.25 to 2.75	90.0	80 to 120	0.00	20
AZ20692	Sulfate	mg/L	-0.246	0.50	20.0	33.5	14.6	19.3	18 to 22	95.0	80 to 120	0.687	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-33 DUP

Location Code: WMWGREAP
Collected: 9/11/19 10:35
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:43		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:43		1.015	2.17	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:43		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:20		1.015	0.0785	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:20		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	67.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:38	9/17/19 10:38		1	4.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:13	9/17/19 15:13		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:02	9/16/19 14:02		1	14.5	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 10:31	9/11/19 10:31			101.45	uS/cm			FA
pH	9/11/19 10:31	9/11/19 10:31			4.57	SU			FA
Temperature	9/11/19 10:31	9/11/19 10:31			19.44	C			FA
Turbidity	9/11/19 10:31	9/11/19 10:31			3.19	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-33 DUP

Laboratory ID Number: AZ20693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-33 DUP

Laboratory ID Number: AZ20693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 9/11/19 11:35
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 10:45		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 10:45		1.015	9.95	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 10:45		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:22		1.015	0.0147	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/13/19 14:20	9/17/19 08:25		1	55.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:39	9/17/19 10:39		1	4.21	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:14	9/17/19 15:14		1	0.0518	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:04	9/16/19 14:04		1	2.66	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 11:31	9/11/19 11:31			73.41	uS/cm			FA
pH	9/11/19 11:31	9/11/19 11:31			5.87	SU			FA
Temperature	9/11/19 11:31	9/11/19 11:31			20.34	C			FA
Turbidity	9/11/19 11:31	9/11/19 11:31			2.78	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 11:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AZ20694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20694	Arsenic, Total	mg/L	0.0000140	0.0001474	0.10	0.102	0.102	0.0997	0.085 to 0.115	102	70 to 130	0.102	20
AZ20694	Barium, Total	mg/L	-0.00000003	0.0002	0.10	0.123	0.120	0.105	0.085 to 0.115	108	70 to 130	2.20	20
AZ20694	Beryllium, Total	mg/L	0.00000579	0.00088	0.10	0.0958	0.0931	0.0927	0.085 to 0.115	95.8	70 to 130	2.91	20
AZ20694	Boron, Total	mg/L	0.000584	0.0650254	1.00	1.01	1.02	0.994	0.85 to 1.15	101	70 to 130	1.09	20
AZ20694	Calcium, Total	mg/L	0.0334	0.1518	5.00	14.9	15.0	5.07	4.25 to 5.75	99.7	70 to 130	0.169	20
AZ20694	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0997	0.0985	0.0990	0.085 to 0.115	99.7	70 to 130	1.19	20
AZ20694	Cobalt, Total	mg/L	0.00000038	0.0001474	0.10	0.106	0.104	0.106	0.085 to 0.115	106	70 to 130	1.61	20
AZ20694	Chromium, Total	mg/L	-0.0000386	0.00044	0.10	0.101	0.0999	0.102	0.085 to 0.115	101	70 to 130	1.37	20
AZ20694	Lithium, Total	mg/L	-0.000163	0.0154	0.20	0.204	0.205	0.199	0.17 to 0.23	102	70 to 130	0.787	20
AZ20694	Molybdenum, Total	mg/L	0.00000997	0.0001474	0.10	0.0985	0.0971	0.0976	0.085 to 0.115	98.5	70 to 130	1.46	20
AZ20694	Lead, Total	mg/L	0.00000674	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.252	20
AZ20694	Antimony, Total	mg/L	0.000210	0.00066	0.10	0.0980	0.0960	0.0931	0.085 to 0.115	98.0	70 to 130	2.01	20
AZ20694	Selenium, Total	mg/L	0.0000347	0.00066	0.10	0.1000	0.0981	0.0999	0.085 to 0.115	100	70 to 130	1.82	20
AZ20694	Thallium, Total	mg/L	0.00000567	0.0001474	0.10	0.107	0.105	0.104	0.085 to 0.115	107	70 to 130	2.26	20
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 11:35
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: AZ20694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20688	Solids, Dissolved	mg/L	1.00	25	50.0		98.0	53.0	40 to 60	106	80 to 120	1.01	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 9/11/19 13:27
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:06		1.015	1.67	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:19		10.15	91.6	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:06		1.015	0.450	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:43		1.015	0.0530	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 13:43		1.015	0.173	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:43		1.015	0.0194	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:43		1.015	0.00338	mg/L	0.002	0.01	J
* Selenium, Total	9/13/19 13:02	9/16/19 13:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:43		1.015	0.000983	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	454	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:41	9/17/19 10:41		1	14.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:16	9/17/19 15:16		1	0.443	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:13	9/16/19 14:13		3	44.1	mg/L	1.50	3	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 13:24	9/11/19 13:24			795.96	uS/cm			FA
pH	9/11/19 13:24	9/11/19 13:24			6.17	SU			FA
Temperature	9/11/19 13:24	9/11/19 13:24			20.41	C			FA
Turbidity	9/11/19 13:24	9/11/19 13:24			4.43	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:27
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ20695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:27
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: AZ20695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 9/11/19 14:38
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:09		1.015	0.175	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:22		10.15	84.0	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:09		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:46		1.015	0.0581	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:46		1.015	0.00363	mg/L	0.002	0.005	J
* Lead, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:46		1.015	0.00203	mg/L	0.002	0.01	J
* Selenium, Total	9/13/19 13:02	9/16/19 13:46		1.015	0.0155	mg/L	0.002	0.01	
* Thallium, Total	9/13/19 13:02	9/16/19 13:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	280	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:42	9/17/19 10:42		1	3.82	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:17	9/17/19 15:17		1	0.142	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:14	9/16/19 14:14		8	60.5	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 14:34	9/11/19 14:34			450.97	uS/cm			FA
pH	9/11/19 14:34	9/11/19 14:34			6.55	SU			FA
Temperature	9/11/19 14:34	9/11/19 14:34			27.07	C			FA
Turbidity	9/11/19 14:34	9/11/19 14:34			4.86	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 14:38
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ20696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 14:38
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: AZ20696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 9/11/19 16:40
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:12		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 11:12		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 11:12		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:43	9/17/19 10:43		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:18	9/17/19 15:18		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:07	9/16/19 14:07		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 9/11/19 16:40
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ20697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 9/11/19 16:40
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: AZ20697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 9/11/19 17:37
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:15		1.015	0.595	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:25		10.15	90.8	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:15		1.015	0.117	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:51		1.015	0.406	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 13:51		1.015	0.323	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:51		1.015	0.00767	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:51		1.015	0.00328	mg/L	0.002	0.01	J
* Selenium, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:51		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	455	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:44	9/17/19 10:44		1	11.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:19	9/17/19 15:19		1	0.200	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:16	9/16/19 14:16		16	149	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	9/11/19 17:33	9/11/19 17:33			713.82	uS/cm			FA
pH	9/11/19 17:33	9/11/19 17:33			6.36	SU			FA
Temperature	9/11/19 17:33	9/11/19 17:33			21.98	C			FA
Turbidity	9/11/19 17:33	9/11/19 17:33			2.66	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:37
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AZ20698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:37
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: AZ20698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 9/11/19 10:30
Customer ID:
Submittal Date: 9/12/19 14:53

Laboratory ID Number: AZ20699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:18		1.015	1.07	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:27		10.15	60.7	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:18		1.015	0.254	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:54		1.015	0.0124	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 13:54		1.015	0.127	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:54		1.015	0.0143	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:54		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	368	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:53	9/17/19 10:53		3	31.4	mg/L	1.50	3	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:20	9/17/19 15:20		1	0.127	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:20	9/16/19 14:20		2	45.7	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 10:25	9/11/19 10:25			645.55	uS/cm			FA
pH	9/11/19 10:25	9/11/19 10:25			6.52	SU			FA
Temperature	9/11/19 10:25	9/11/19 10:25			20.15	C			FA
Turbidity	9/11/19 10:25	9/11/19 10:25			4.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:30
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ20699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:30
Customer ID:
Delivery Date: 9/12/19 14:53

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: AZ20699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-43H DUP

Location Code: WMWGREAP
Collected: 9/11/19 10:30
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20700

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:21		1.015	1.06	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:30		10.15	61.7	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:21		1.015	0.250	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:57		1.015	0.0128	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 13:57		1.015	0.125	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 13:57		1.015	0.0145	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:57		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	364	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:54	9/17/19 10:54		3	30.9	mg/L	1.50	3	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:22	9/17/19 15:22		1	0.120	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:22	9/16/19 14:22		2	45.6	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 10:25	9/11/19 10:25			645.55	uS/cm			FA
pH	9/11/19 10:25	9/11/19 10:25			6.52	SU			FA
Temperature	9/11/19 10:25	9/11/19 10:25			20.15	C			FA
Turbidity	9/11/19 10:25	9/11/19 10:25			4.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:30
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-43H DUP

Laboratory ID Number: AZ20700

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 10:30
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-43H DUP

Laboratory ID Number: AZ20700

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 9/11/19 12:32
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20701

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:24		1.015	1.88	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:33		10.15	57.2	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:24		1.015	0.0169	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 13:59		1.015	0.00583	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 13:59		1.015	0.123	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 13:59		1.015	0.00325	mg/L	0.002	0.01	J
* Cobalt, Total	9/13/19 13:02	9/16/19 13:59		1.015	0.0449	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 13:59		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	299	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:55	9/17/19 10:55		3	20.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:23	9/17/19 15:23		1	0.0630	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:12	9/16/19 14:12		1	9.43	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 12:28	9/11/19 12:28			536.87	uS/cm			FA
pH	9/11/19 12:28	9/11/19 12:28			6.20	SU			FA
Temperature	9/11/19 12:28	9/11/19 12:28			20.97	C			FA
Turbidity	9/11/19 12:28	9/11/19 12:28			9.54	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 12:32
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ20701

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 12:32
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: AZ20701

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20701	Solids, Dissolved	mg/L	2.00	25	50.0		303	51.0	40 to 60	102	80 to 120	0.664	5
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 9/11/19 13:53
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20702

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:26		1.015	0.147	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 11:26		1.015	1.16	mg/L	0.1	0.5	
* Lithium, Total	9/18/19 11:25	9/19/19 11:26		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 14:02		1.015	0.00222	mg/L	0.001	0.005	J
* Barium, Total	9/13/19 13:02	9/16/19 14:02		1.015	0.00323	mg/L	0.002	0.01	J
* Beryllium, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 14:02		1.015	0.0155	mg/L	0.002	0.01	
* Cobalt, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 14:02		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 11:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	182	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 10:49	9/17/19 10:49		1	3.95	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:24	9/17/19 15:24		1	0.289	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:17	9/16/19 14:17		1	11.0	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 13:48	9/11/19 13:48			277.36	uS/cm			FA
pH	9/11/19 13:48	9/11/19 13:48			7.20	SU			FA
Temperature	9/11/19 13:48	9/11/19 13:48			24.10	C			FA
Turbidity	9/11/19 13:48	9/11/19 13:48			9.68	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:53
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ20702

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Mercury, Total by CVAA	mg/L	0.0000707	0.0005	0.004	0.00375	0.00374	0.00387	0.0034 to 0.0046	93.7	70 to 130	0.294	20
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 13:53
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: AZ20702

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20702	Chloride	mg/L	0.075	0.50	10.0	14.3	3.93	10.1	9 to 11	104	80 to 120	0.508	20
AZ20702	Fluoride	mg/L	0.0171	0.05	2.50	2.90	0.297	2.63	2.25 to 2.75	104	80 to 120	2.73	20
AZ20702	Sulfate	mg/L	-0.378	0.50	20.0	29.6	11.0	19.2	18 to 22	93.0	80 to 120	0.00	20
AZ20706	Solids, Dissolved	mg/L	2.00	25	50.0		1590	51.0	40 to 60	102	80 to 120	0.634	5

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 9/11/19 15:11
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20703

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:29		1.015	0.535	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:42		10.15	53.9	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:29		1.015	0.246	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 14:04		1.015	0.00261	mg/L	0.0008	0.003	J
* Arsenic, Total	9/13/19 13:02	9/16/19 14:04		1.015	0.00664	mg/L	0.001	0.005	
* Barium, Total	9/13/19 13:02	9/16/19 14:04		1.015	0.275	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 14:04		1.015	0.0226	mg/L	0.002	0.01	
* Selenium, Total	9/13/19 13:02	9/16/19 14:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 14:04		1.015	0.00214	mg/L	0.0002	0.001	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 12:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	316	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 11:05	9/17/19 11:05		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:35	9/17/19 15:35		1	0.118	mg/L	0.05	0.1	
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:50	9/16/19 14:50		10	128	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 15:06	9/11/19 15:06			514.88	uS/cm			FA
pH	9/11/19 15:06	9/11/19 15:06			6.22	SU			FA
Temperature	9/11/19 15:06	9/11/19 15:06			25.49	C			FA
Turbidity	9/11/19 15:06	9/11/19 15:06			0.48	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 15:11
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AZ20703

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20
AZ20706	Mercury, Total by CVAA	mg/L	0.0000664	0.0005	0.004	0.00392	0.00380	0.00391	0.0034 to 0.0046	97.9	70 to 130	2.99	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 15:11
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: AZ20703

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Chloride	mg/L	0.0959	0.50	10.0	21.0	11.9	10.1	9 to 11	92.0	80 to 120	0.844	20
AZ20706	Fluoride	mg/L	0.0256	0.05	2.50	2.62	0.0833	2.61	2.25 to 2.75	102	80 to 120	6.19	20
AZ20706	Sulfate	mg/L	-0.302	0.50	500	895	412	19.0	18 to 22	97.2	80 to 120	0.731	20
AZ20706	Solids, Dissolved	mg/L	2.00	25	50.0		1590	51.0	40 to 60	102	80 to 120	0.634	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 9/11/19 15:26
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20704

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:32		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/18/19 11:25	9/19/19 11:32		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	9/18/19 11:25	9/19/19 11:32		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 14:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 12:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 11:06	9/17/19 11:06		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:36	9/17/19 15:36		1	Not Detected	mg/L	0.05	0.1	U
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:52	9/16/19 14:52		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 9/11/19 15:26
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20704

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20704	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.101	0.102	0.101	0.085 to 0.115	101	70 to 130	0.664	20
AZ20704	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.110	0.109	0.107	0.085 to 0.115	110	70 to 130	1.04	20
AZ20704	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0931	0.0971	0.0906	0.085 to 0.115	93.1	70 to 130	4.20	20
AZ20704	Boron, Total	mg/L	0.000543	0.0650254	1.00	0.994	1.01	0.998	0.85 to 1.15	99.4	70 to 130	1.60	20
AZ20704	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	5.05	5.04	5.10	4.25 to 5.75	101	70 to 130	0.354	20
AZ20704	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.83	20
AZ20704	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.628	20
AZ20704	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.156	20
AZ20704	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.200	0.202	0.201	0.17 to 0.23	99.8	70 to 130	1.22	20
AZ20704	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0985	0.100	0.0980	0.085 to 0.115	98.5	70 to 130	1.63	20
AZ20704	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00211	20
AZ20704	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0955	0.0956	0.0956	0.085 to 0.115	95.5	70 to 130	0.141	20
AZ20704	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.777	20
AZ20704	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.108	0.107	0.105	0.085 to 0.115	108	70 to 130	1.27	20
AZ20706	Mercury, Total by CVAA	mg/L	0.0000664	0.0005	0.004	0.00392	0.00380	0.00391	0.0034 to 0.0046	97.9	70 to 130	2.99	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 9/11/19 15:26
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: AZ20704

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Chloride	mg/L	0.0959	0.50	10.0	21.0	11.9	10.1	9 to 11	92.0	80 to 120	0.844	20
AZ20706	Fluoride	mg/L	0.0256	0.05	2.50	2.62	0.0833	2.61	2.25 to 2.75	102	80 to 120	6.19	20
AZ20706	Sulfate	mg/L	-0.302	0.50	500	895	412	19.0	18 to 22	97.2	80 to 120	0.731	20
AZ20706	Solids, Dissolved	mg/L	2.00	25	50.0		1590	51.0	40 to 60	102	80 to 120	0.634	5

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
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COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 9/11/19 16:12
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20705

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:47		1.015	0.758	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:45		10.15	72.1	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:47		1.015	0.0396	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 14:23		1.015	0.00208	mg/L	0.001	0.005	J
* Barium, Total	9/13/19 13:02	9/16/19 14:23		1.015	0.100	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 14:23		1.015	0.00897	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 14:23		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 12:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	334	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 11:08	9/17/19 11:08		1	16.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:37	9/17/19 15:37		1	0.0609	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:53	9/16/19 14:53		4	79.1	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 16:08	9/11/19 16:08			547.76	uS/cm			FA
pH	9/11/19 16:08	9/11/19 16:08			5.96	SU			FA
Temperature	9/11/19 16:08	9/11/19 16:08			20.77	C			FA
Turbidity	9/11/19 16:08	9/11/19 16:08			1.6	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 16:12
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ20705

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.102	0.101	0.101	0.085 to 0.115	99.0	70 to 130	0.367	20
AZ20706	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.183	0.179	0.107	0.085 to 0.115	103	70 to 130	2.20	20
AZ20706	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0925	0.0958	0.0906	0.085 to 0.115	92.5	70 to 130	3.54	20
AZ20706	Boron, Total	mg/L	0.000543	0.0650254	1.00	1.22	1.23	0.998	0.85 to 1.15	102	70 to 130	0.605	20
AZ20706	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	183	185	5.10	4.25 to 5.75	84.0	70 to 130	0.616	20
AZ20706	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0954	0.0944	0.100	0.085 to 0.115	95.4	70 to 130	1.01	20
AZ20706	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.200	0.200	0.105	0.085 to 0.115	94.4	70 to 130	0.0629	20
AZ20706	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.0966	0.0958	0.101	0.085 to 0.115	96.6	70 to 130	0.921	20
AZ20706	Mercury, Total by CVAA	mg/L	0.0000664	0.0005	0.004	0.00392	0.00380	0.00391	0.0034 to 0.0046	97.9	70 to 130	2.99	20
AZ20706	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.234	0.235	0.201	0.17 to 0.23	117	70 to 130	0.0934	20
AZ20706	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0951	0.0939	0.0980	0.085 to 0.115	95.1	70 to 130	1.30	20
AZ20706	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.105	0.103	0.106	0.085 to 0.115	105	70 to 130	1.96	20
AZ20706	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0961	0.0948	0.0956	0.085 to 0.115	96.1	70 to 130	1.37	20
AZ20706	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.0972	0.0964	0.102	0.085 to 0.115	97.2	70 to 130	0.916	20
AZ20706	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.973	20

MDL's and RL's are adjusted for sample dilution, as applicable

* Test results for these accredited parameters meet all 2003 NELAC and 2009 TNI requirements, with exceptions noted on this report
Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 16:12
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: AZ20705

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Chloride	mg/L	0.0959	0.50	10.0	21.0	11.9	10.1	9 to 11	92.0	80 to 120	0.844	20
AZ20706	Fluoride	mg/L	0.0256	0.05	2.50	2.62	0.0833	2.61	2.25 to 2.75	102	80 to 120	6.19	20
AZ20706	Sulfate	mg/L	-0.302	0.50	500	895	412	19.0	18 to 22	97.2	80 to 120	0.731	20
AZ20706	Solids, Dissolved	mg/L	2.00	25	50.0		1590	51.0	40 to 60	102	80 to 120	0.634	5

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 9/11/19 17:13
Customer ID:
Submittal Date: 9/12/19 14:54

Laboratory ID Number: AZ20706

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/18/19 11:25	9/19/19 11:50		1.015	0.199	mg/L	0.03	0.1	
* Calcium, Total	9/18/19 11:25	9/19/19 12:48		10.15	179	mg/L	1.015	5.075	
* Lithium, Total	9/18/19 11:25	9/19/19 11:50		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	9/13/19 13:02	9/16/19 14:26		1.015	0.00269	mg/L	0.001	0.005	J
* Barium, Total	9/13/19 13:02	9/16/19 14:26		1.015	0.0797	mg/L	0.002	0.01	
* Beryllium, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	9/13/19 13:02	9/16/19 14:26		1.015	0.106	mg/L	0.002	0.005	
* Lead, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	9/13/19 13:02	9/16/19 14:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	9/16/19 11:31	9/17/19 12:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/16/19 13:00	9/18/19 09:45		1	1570	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	9/17/19 11:09	9/17/19 11:09		1	11.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	9/17/19 15:39	9/17/19 15:39		1	0.0783	mg/L	0.05	0.1	J
Analytical Method: SM4500SO4 E	***Analyst: JCC***								
* Sulfate	9/16/19 14:54	9/16/19 14:54		25	409	mg/L	12.50	25	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	9/11/19 17:09	9/11/19 17:09			1040.74	uS/cm			FA
pH	9/11/19 17:09	9/11/19 17:09			6.11	SU			FA
Temperature	9/11/19 17:09	9/11/19 17:09			20.27	C			FA
Turbidity	9/11/19 17:09	9/11/19 17:09			4.49	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:13
Customer ID:
Delivery Date: 9/12/19 14:54

Description:Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ20706

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Arsenic, Total	mg/L	0.0000112	0.0001474	0.10	0.102	0.101	0.101	0.085 to 0.115	99.0	70 to 130	0.367	20
AZ20706	Barium, Total	mg/L	0.0000259	0.0002	0.10	0.183	0.179	0.107	0.085 to 0.115	103	70 to 130	2.20	20
AZ20706	Beryllium, Total	mg/L	0.00000839	0.00088	0.10	0.0925	0.0958	0.0906	0.085 to 0.115	92.5	70 to 130	3.54	20
AZ20706	Boron, Total	mg/L	0.000543	0.0650254	1.00	1.22	1.23	0.998	0.85 to 1.15	102	70 to 130	0.605	20
AZ20706	Calcium, Total	mg/L	-0.0000623	0.1518	5.00	183	185	5.10	4.25 to 5.75	84.0	70 to 130	0.616	20
AZ20706	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0954	0.0944	0.100	0.085 to 0.115	95.4	70 to 130	1.01	20
AZ20706	Cobalt, Total	mg/L	0.00000028	0.0001474	0.10	0.200	0.200	0.105	0.085 to 0.115	94.4	70 to 130	0.0629	20
AZ20706	Chromium, Total	mg/L	-0.0000622	0.00044	0.10	0.0966	0.0958	0.101	0.085 to 0.115	96.6	70 to 130	0.921	20
AZ20706	Mercury, Total by CVAA	mg/L	0.0000664	0.0005	0.004	0.00392	0.00380	0.00391	0.0034 to 0.0046	97.9	70 to 130	2.99	20
AZ20706	Lithium, Total	mg/L	-0.000170	0.0154	0.20	0.234	0.235	0.201	0.17 to 0.23	117	70 to 130	0.0934	20
AZ20706	Molybdenum, Total	mg/L	0.00000622	0.0001474	0.10	0.0951	0.0939	0.0980	0.085 to 0.115	95.1	70 to 130	1.30	20
AZ20706	Lead, Total	mg/L	0.00000716	0.0001474	0.10	0.105	0.103	0.106	0.085 to 0.115	105	70 to 130	1.96	20
AZ20706	Antimony, Total	mg/L	0.000209	0.00066	0.10	0.0961	0.0948	0.0956	0.085 to 0.115	96.1	70 to 130	1.37	20
AZ20706	Selenium, Total	mg/L	0.0000136	0.00066	0.10	0.0972	0.0964	0.102	0.085 to 0.115	97.2	70 to 130	0.916	20
AZ20706	Thallium, Total	mg/L	0.00000432	0.0001474	0.10	0.106	0.105	0.105	0.085 to 0.115	106	70 to 130	0.973	20

MDL's and RL's are adjusted for sample dilution, as applicable

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2018

Comments:

Reported: 10/15/2019
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COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 9/11/19 17:13
Customer ID:
Delivery Date: 9/12/19 14:54

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: AZ20706

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	LCS	LCS Limit	Rec	Rec Limit	Prec	Prec Limit
AZ20706	Chloride	mg/L	0.0959	0.50	10.0	21.0	11.9	10.1	9 to 11	92.0	80 to 120	0.844	20
AZ20706	Fluoride	mg/L	0.0256	0.05	2.50	2.62	0.0833	2.61	2.25 to 2.75	102	80 to 120	6.19	20
AZ20706	Sulfate	mg/L	-0.302	0.50	500	895	412	19.0	18 to 22	97.2	80 to 120	0.731	20
AZ20706	Solids, Dissolved	mg/L	2.00	25	50.0		1590	51.0	40 to 60	102	80 to 120	0.634	5

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Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2017

Comments:

Reported: 10/15/2019
Version: 3.0
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001

Definitions

Alabama Power

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 09/11/2019 14:01

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles															
	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	9/9/19	14:48	4	Groundwater		AZ20527
MW-3	09/09/2019	16:05	4	Groundwater		AZ20528
MW-1	09/10/2019	09:20	4	Groundwater		AZ20529
MW-25	09/10/2019	10:24	4	Groundwater		AZ20530
MW-12	09/10/2019	11:34	4	Groundwater		AZ20531
MW-12 dup	09/10/2019	11:34	4	Sample Duplicate		AZ20532
MW-21	09/10/2019	12:34	4	Groundwater		AZ20533
FB-1	09/10/2019	12:45	4	Field Blank		AZ20534
MW-11	09/10/2019	13:42	4	Groundwater		AZ20535
PZ-4	09/10/2019	15:20	4	Groundwater		AZ20536
MW-34HA	09/10/2019	16:23	4	Groundwater		AZ20537

Relinquished By	Received By	Date/Time
		09/11/2019 08:01
		09/11/2019 13:55

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	0.1 degrees C
Sample Event	1239	Thermometer ID	5048-27568-2-2
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 09/11/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles															
	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	9/10/19	09:20	4	Groundwater		AZ20538
MW-8	09/10/2019	10:10	4	Groundwater		AZ20539
MW-8 DUP	09/10/2019	10:10	4	Sample Duplicate		AZ20540
MW-7	09/10/2019	11:05	4	Groundwater		AZ20541
MW-6	09/10/2019	11:48	4	Groundwater		AZ20542
MW-10	09/10/2019	13:05	4	Groundwater		AZ20543
MW-14	09/10/2019	14:05	4	Groundwater		AZ20544

Relinquished By	Received By	Date/Time
		09/11/2019 08:02
		09/11/2019 14:28

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	0.1 degrees C
Sample Event	1239	Thermometer ID	5408-27568-2-2
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 09/11/2019 14:59

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles													
	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	9/9/19	14:35	4	Groundwater		AZ20545
MW-18 Dup	09/09/2019	14:35	4	Sample Duplicate		AZ20546
MW-17	09/09/2019	16:40	4	Groundwater		AZ20547
FB-3	09/09/2019	16:56	4	Field Blank		AZ20548
MW-16	09/10/2019	09:42	4	Groundwater		AZ20549
MW-40H	09/10/2019	11:20	4	Groundwater		AZ20550
MW-15	09/10/2019	12:43	4	Groundwater		AZ20551
MW-24	09/10/2019	14:45	4	Groundwater		AZ20552
MW-23	09/10/2019	16:35	4	Groundwater		AZ20553
FB-5	09/10/2019	17:00	4	Field Blank		AZ20554

Relinquished By	Received By	Date/Time
		09/11/2019 08:02
		09/11/2019 13:56

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	0.1 degrees C
Sample Event	1239	Thermometer ID	5408-27568-2-2
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 09/12/2019 13:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles													
	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	9/11/19	09:20	4	Groundwater		AZ20690
FB-4	09/11/2019	10:20	4	Field Blank		AZ20691
MW-33	09/11/2019	10:35	4	Groundwater		AZ20692
MW-33DUP	09/11/2019	10:35	4	Sample Duplicate		AZ20693
MW-32	09/11/2019	11:35	4	Groundwater		AZ20694
MW-39H	09/11/2019	13:27	4	Groundwater		AZ20695
MW-38H	09/11/2019	14:38	4	Groundwater		AZ20696
EB-2	09/11/2019	16:40	4	Equipment Blank		AZ20697
MW-5	09/11/2019	17:37	4	Groundwater		AZ20698

Relinquished By	Received By	Date/Time
[signature]	[signature]	09/12/2019 13:47

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	0.3 degrees C
Sample Event	1239	Thermometer ID	5408-27568-2-2
		pH Strip ID	7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles													
	1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
	2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	9/11/19	10:00	4	Groundwater		AZ20683
MW-27	09/11/2019	10:55	4	Groundwater		AZ20684
MW-28	09/11/2019	11:50	4	Groundwater		AZ20685
MW-29	09/11/2019	13:10	4	Groundwater		AZ20686
MW-30	09/11/2019	14:05	4	Groundwater		AZ20687
MW-35H	09/11/2019	17:07	4	Groundwater		AZ20688
EB-1	09/11/2019	17:30	4	Equipment Blank		AZ20689

Relinquished By	Received By	Date/Time
		09/12/2019 13:49

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	0.5 degrees C
Sample Event	1239	Thermometer ID	5408-27568-2-2
		pH Strip ID	7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-43H	9/11/19	10:30	4	Groundwater		AZ20699
MW-43H dup	09/11/2019	10:30	4	Sample Duplicate		AZ20700
MW-42H	09/11/2019	12:32	4	Groundwater		AZ20701
MW-36H	09/11/2019	13:53	4	Groundwater		AZ20702
MW-13	09/11/2019	15:11	4	Groundwater		AZ20703
FB-2	09/11/2019	15:26	4	Field Blank		AZ20704
MW-41H	09/11/2019	16:12	4	Groundwater		AZ20705
MW-44H	09/11/2019	17:13	4	Groundwater		AZ20706

Relinquished By	Received By	Date/Time
Dallas Gentry	Laura Miller	09/12/2019 13:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	0.4 degrees C
Sample Event	1239	Thermometer ID	5408-27568-2-2
		pH Strip ID	7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab
✔ Lab Complete

Lab ETA 09/11/2019 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium duplicate collected on MW-9. LBM 09/11/2019

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	9/10/19	09:20	3	Groundwater		AZ20566
MW-8	09/10/2019	10:10	1	Groundwater		AZ20567
MW-8 DUP	09/10/2019	10:10	1	Sample Duplicate		AZ20568
MW-7	09/10/2019	11:05	1	Groundwater		AZ20569
MW-6	09/10/2019	11:48	1	Groundwater		AZ20570
MW-10	09/10/2019	13:05	1	Groundwater		AZ20571
MW-14	09/10/2019	14:05	1	Groundwater		AZ20572

Relinquished By	Received By	Date/Time
		09/11/2019 08:00
		09/11/2019 14:28

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	✔
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA: 09/11/2019 14:02

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium duplicate collected on MW-1

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	9/9/19	14:48	1	Groundwater		AZ20555
MW-3	09/09/2019	16:05	1	Groundwater		AZ20556
MW-1	09/10/2019	09:20	3	Groundwater		AZ20557
MW-25	09/10/2019	10:24	1	Groundwater		AZ20558
MW-12	09/10/2019	11:34	1	Groundwater		AZ20559
MW-12 dup	09/10/2019	11:34	1	Sample Duplicate		AZ20560
MW-21	09/10/2019	12:34	1	Groundwater		AZ20561
FB-1	09/10/2019	12:45	1	Field Blank		AZ20562
MW-11	09/10/2019	13:42	1	Groundwater		AZ20563
PZ-4	09/10/2019	15:20	1	Groundwater		AZ20564
MW-34HA	09/10/2019	16:23	1	Groundwater		AZ20565

Relinquished By	Received By	Date/Time
		09/11/2019 08:03
		09/11/2019 13:54

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab
✔ Lab Complete

Lab ETA 09/11/2019 14:59

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	9/9/19	14:35	1	Groundwater		AZ20573
MW-18 Dup	09/09/2019	14:35	1	Sample Duplicate		AZ20574
MW-17	09/09/2019	16:40	1	Groundwater		AZ20575
FB-3	09/09/2019	16:56	1	Field Blank		AZ20576
MW-16	09/10/2019	09:42	1	Groundwater		AZ20577
MW-40H	09/10/2019	11:20	1	Groundwater		AZ20578
MW-15	09/10/2019	12:43	1	Groundwater		AZ20579
MW-24	09/10/2019	14:45	1	Groundwater		AZ20580
MW-23	09/10/2019	16:35	1	Groundwater		AZ20581
FB-5	09/10/2019	17:00	1	Field Blank		AZ20582

Relinquished By	Received By	Date/Time
		09/11/2019 08:02
		09/11/2019 13:58

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	✔
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7452-40646-4-2; 7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA: 09/12/2019 13:00

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	9/11/19	09:20	1	Groundwater		AZ20714
FB-4	09/11/2019	10:20	1	Field Blank		AZ20715
MW-33	09/11/2019	10:35	1	Groundwater		AZ20716
MW-33DUP	09/11/2019	10:35	1	Sample Duplicate		AZ20717
MW-32	09/11/2019	11:35	1	Groundwater		AZ20718
MW-39H	09/11/2019	13:27	1	Groundwater		AZ20719
MW-38H	09/11/2019	14:38	1	Groundwater		AZ20720
EB-2	09/11/2019	16:40	1	Equipment Blank		AZ20721
MW-5	09/11/2019	17:37	1	Groundwater		AZ20722

Relinquished By	Received By	Date/Time
		09/12/2019 13:48

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-43H	9/11/19	10:30	1	Groundwater		AZ20723
MW-43H dup	09/11/2019	10:30	1	Sample Duplicate		AZ20724
MW-42H	09/11/2019	12:32	1	Groundwater		AZ20725
MW-36H	09/11/2019	13:53	1	Groundwater		AZ20726
MW-13	09/11/2019	15:11	1	Groundwater		AZ20727
FB-2	09/11/2019	15:26	1	Field Blank		AZ20728
MW-41H	09/11/2019	16:12	1	Groundwater		AZ20729
MW-44H	09/11/2019	17:13	1	Groundwater		AZ20730

Relinquished By	Received By	Date/Time
Dallas Gentry	Laura Mabry	09/12/2019 13:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7267-39374-6-6

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks,Greg Dyer,Corey Ladner
Site Representative	Jason Arledge	Requested By	Corey Ladner
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium Dup @ MW-26

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	9/11/19	10:00	3	Groundwater		AZ20707
MW-27	09/11/2019	10:55	1	Groundwater		AZ20708
MW-28	09/11/2019	11:50	1	Groundwater		AZ20709
MW-29	09/11/2019	13:10	1	Groundwater		AZ20710
MW-30	09/11/2019	14:05	1	Groundwater		AZ20711
MW-35H	09/11/2019	17:07	1	Groundwater		AZ20712
EB-1	09/11/2019	17:30	1	Equipment Blank		AZ20713

Relinquished By	Received By	Date/Time
		09/12/2019 13:49

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1239	Thermometer ID	N/A
		pH Strip ID	7267-39374-6-6

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-176443-1
Laboratory Sample Delivery Group: Greene Ash Pond 1239
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Cheyenne Whitmire

Authorized for release by:
10/21/2019 5:23:54 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

Table of Contents

Job ID: 400-176443-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-176443-1

RAD

Methods 9315: Radium-226 Prep Batch 160-443518. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20573 MW-18 (400-176443-19), AZ20574 MW-18 DUP (400-176443-20), AZ20575 MW-17 (400-176443-21), AZ20576 FB-3 (400-176443-22), AZ20577 MW-16 (400-176443-23), AZ20578 MW-40H (400-176443-24), AZ20579 MW-15 (400-176443-25), AZ20580 MW-24 (400-176443-26), AZ20581 MW-23 (400-176443-27), AZ20582 FB-5 (400-176443-28), AZ20707 MW-26 (400-176443-29), AZ20707 MW-26 (400-176443-29[DU]), AZ20708 MW-27 (400-176443-30), AZ20709 MW-28 (400-176443-31), AZ20710 MW-29 (400-176443-32), AZ20711 MW-30 (400-176443-33), AZ20712 MW-35H (400-176443-34), AZ20713 EB-1 (400-176443-35), AZ20714 MW-31 (400-176443-36), AZ20715 FB-4 (400-176443-37), (LCS 160-443518/1-A) and (MB 160-443518/22-A)

Methods 9315: Radium-226 Prep Batch 160-443512. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20555 MW-2 (400-176443-1), AZ20556 MW-3 (400-176443-2), AZ20557 MW-1 (400-176443-3), AZ20557 MW-1 (400-176443-3[DU]), AZ20558 MW-25 (400-176443-4), AZ20559 MW-12 (400-176443-5), AZ20560 MW-12 DUP (400-176443-6), AZ20561 MW-21 (400-176443-7), AZ20562 FB-1 (400-176443-8), AZ20563 MW-11 (400-176443-9), AZ20564 PZ-4 (400-176443-10), AZ20565 MW-34HA (400-176443-11), AZ20566 MW-9 (400-176443-12), AZ20566 MW-9 (400-176443-12[DU]), AZ20567 MW-8 (400-176443-13), AZ20568 MW-8 DUP (400-176443-14), AZ20569 MW-7 (400-176443-15), AZ20570 MW-6 (400-176443-16), AZ20571 MW-10 (400-176443-17), AZ20572 MW-14 (400-176443-18), (LCS 160-443512/1-A) and (MB 160-443512/22-A)

Methods 9315: Radium-226 Prep Batch 160-443692. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20717 MW-33 DUP (400-176443-39), AZ20718 MW-32 (400-176443-40), AZ20719 MW-39H (400-176443-41), AZ20720 MW-38H (400-176443-42), AZ20721 EB-2 (400-176443-43), AZ20722 MW-5 (400-176443-44), AZ20723 MW-43H (400-176443-45), AZ20724 MW-43H DUP (400-176443-46), AZ20725 MW-42H (400-176443-47), AZ20726 MW-36H (400-176443-48), AZ20727 MW-13 (400-176443-49), AZ20728 FB-2 (400-176443-50), AZ20729 MW-41H (400-176443-51), AZ20730 MW-44H (400-176443-52), (LCS 160-443692/1-A), (MB 160-443692/22-A), (160-35678-C-1-A) and (160-35678-G-1-A DU)

Methods 9315: Radium-226 Prep Batch 160-443779. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20716 MW-33 (400-176443-38), (LCS 160-443779/1-A), (LCSD 160-443779/2-A) and (MB 160-443779/18-A)

Methods 9320: Ra-228 Prep Batch 160-443514. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20555 MW-2 (400-176443-1), AZ20556 MW-3 (400-176443-2), AZ20557 MW-1 (400-176443-3), AZ20557 MW-1 (400-176443-3[DU]), AZ20558 MW-25 (400-176443-4), AZ20559 MW-12 (400-176443-5), AZ20560 MW-12 DUP (400-176443-6), AZ20561 MW-21 (400-176443-7), AZ20562 FB-1 (400-176443-8), AZ20563 MW-11 (400-176443-9), AZ20564 PZ-4 (400-176443-10), AZ20565 MW-34HA (400-176443-11), AZ20566 MW-9 (400-176443-12), AZ20566 MW-9 (400-176443-12[DU]), AZ20567 MW-8 (400-176443-13), AZ20568 MW-8 DUP (400-176443-14), AZ20569 MW-7 (400-176443-15), AZ20570 MW-6 (400-176443-16), AZ20571 MW-10 (400-176443-17), AZ20572 MW-14 (400-176443-18), (LCS 160-443514/1-A) and (MB 160-443514/22-A)

Method 9320: Radium-228 prep batch 160-443526. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20573 MW-18 (400-176443-19), AZ20574 MW-18 DUP (400-176443-20), AZ20575 MW-17 (400-176443-21), AZ20576 FB-3 (400-176443-22), AZ20577 MW-16 (400-176443-23), AZ20578 MW-40H (400-176443-24), AZ20579 MW-15 (400-176443-25), AZ20580 MW-24 (400-176443-26), AZ20581 MW-23 (400-176443-27), AZ20582 FB-5 (400-176443-28), AZ20707 MW-26 (400-176443-29), AZ20707 MW-26 (400-176443-29[DU]), AZ20708 MW-27 (400-176443-30), AZ20709 MW-28 (400-176443-31), AZ20710 MW-29 (400-176443-32), AZ20711 MW-30 (400-176443-33), AZ20712

Job ID: 400-176443-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

MW-35H (400-176443-34), AZ20713 EB-1 (400-176443-35), AZ20714 MW-31 (400-176443-36), AZ20715 FB-4 (400-176443-37), (LCS 160-443526/1-A) and (MB 160-443526/22-A)

Methods 9320: Ra-228 Prep Batch 160-443693. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20717 MW-33 DUP (400-176443-39), AZ20718 MW-32 (400-176443-40), AZ20719 MW-39H (400-176443-41), AZ20720 MW-38H (400-176443-42), AZ20721 EB-2 (400-176443-43), AZ20722 MW-5 (400-176443-44), AZ20723 MW-43H (400-176443-45), AZ20724 MW-43H DUP (400-176443-46), AZ20725 MW-42H (400-176443-47), AZ20726 MW-36H (400-176443-48), AZ20727 MW-13 (400-176443-49), AZ20728 FB-2 (400-176443-50), AZ20729 MW-41H (400-176443-51), AZ20730 MW-44H (400-176443-52), (LCS 160-443693/1-A), (MB 160-443693/22-A), (160-35678-C-1-B) and (160-35678-G-1-B DU)

Methods 9320: Ra-228 Prep Batch 160-443693. The following sample (400-176443-A-40-B) exhibited a negative result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. AZ20718 MW-32 (400-176443-40)

Methods 9320: Ra-228 Prep Batch 160-443878. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. AZ20716 MW-33 (400-176443-38), (LCS 160-443878/1-A), (LCSD 160-443878/2-A) and (MB 160-443878/18-A)

Method PrecSep_0: Radium 228 Prep Batch 160-443514. The following samples were prepared at a reduced aliquot due to limited volume: AZ20555 MW-2 (400-176443-1), AZ20556 MW-3 (400-176443-2), AZ20557 MW-1 (400-176443-3), AZ20557 MW-1 (400-176443-3[DU]), AZ20558 MW-25 (400-176443-4), AZ20559 MW-12 (400-176443-5), AZ20560 MW-12 DUP (400-176443-6), AZ20561 MW-21 (400-176443-7), AZ20562 FB-1 (400-176443-8), AZ20563 MW-11 (400-176443-9), AZ20564 PZ-4 (400-176443-10), AZ20565 MW-34HA (400-176443-11), AZ20566 MW-9 (400-176443-12), AZ20566 MW-9 (400-176443-12[DU]), AZ20567 MW-8 (400-176443-13), AZ20568 MW-8 DUP (400-176443-14), AZ20569 MW-7 (400-176443-15), AZ20570 MW-6 (400-176443-16), AZ20571 MW-10 (400-176443-17) and AZ20572 MW-14 (400-176443-18).

Method PrecSep_0: Radium 228 Prep Batch 160-443526. The following samples were prepared at a reduced aliquot due to limited volume: AZ20573 MW-18 (400-176443-19), AZ20574 MW-18 DUP (400-176443-20), AZ20575 MW-17 (400-176443-21), AZ20576 FB-3 (400-176443-22), AZ20577 MW-16 (400-176443-23), AZ20578 MW-40H (400-176443-24), AZ20579 MW-15 (400-176443-25), AZ20580 MW-24 (400-176443-26), AZ20581 MW-23 (400-176443-27), AZ20582 FB-5 (400-176443-28), AZ20707 MW-26 (400-176443-29), AZ20707 MW-26 (400-176443-29[DU]), AZ20708 MW-27 (400-176443-30), AZ20709 MW-28 (400-176443-31), AZ20710 MW-29 (400-176443-32), AZ20711 MW-30 (400-176443-33), AZ20712 MW-35H (400-176443-34), AZ20713 EB-1 (400-176443-35), AZ20714 MW-31 (400-176443-36) and AZ20715 FB-4 (400-176443-37).

Method PrecSep_0: Radium 228 Prep Batch 160-443693. The following samples were prepared at a reduced aliquot due to limited volume: AZ20717 MW-33 DUP (400-176443-39), AZ20718 MW-32 (400-176443-40), AZ20719 MW-39H (400-176443-41), AZ20720 MW-38H (400-176443-42), AZ20721 EB-2 (400-176443-43), AZ20722 MW-5 (400-176443-44), AZ20723 MW-43H (400-176443-45), AZ20724 MW-43H DUP (400-176443-46), AZ20725 MW-42H (400-176443-47), AZ20726 MW-36H (400-176443-48), AZ20727 MW-13 (400-176443-49), AZ20728 FB-2 (400-176443-50), AZ20729 MW-41H (400-176443-51) and AZ20730 MW-44H (400-176443-52).

Method PrecSep_0: Radium 228 Prep Batch 160-443878. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ20716 MW-33 (400-176443-38). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-443512. The following samples were prepared at a reduced aliquot due to limited volume: AZ20555 MW-2 (400-176443-1), AZ20556 MW-3 (400-176443-2), AZ20557 MW-1 (400-176443-3), AZ20557 MW-1 (400-176443-3[DU]), AZ20558 MW-25 (400-176443-4), AZ20559 MW-12 (400-176443-5), AZ20560 MW-12 DUP (400-176443-6), AZ20561 MW-21 (400-176443-7), AZ20562 FB-1 (400-176443-8), AZ20563 MW-11 (400-176443-9), AZ20564 PZ-4 (400-176443-10), AZ20565 MW-34HA (400-176443-11), AZ20566 MW-9 (400-176443-12), AZ20566 MW-9 (400-176443-12[DU]), AZ20567 MW-8 (400-176443-13), AZ20568 MW-8 DUP (400-176443-14), AZ20569 MW-7 (400-176443-15), AZ20570 MW-6 (400-176443-16), AZ20571 MW-10 (400-176443-17) and AZ20572 MW-14 (400-176443-18).

Job ID: 400-176443-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method PrecSep-21: Radium 226 Prep Batch 160-443518. The following samples were prepared at a reduced aliquot due to limited volume: AZ20573 MW-18 (400-176443-19), AZ20574 MW-18 DUP (400-176443-20), AZ20575 MW-17 (400-176443-21), AZ20576 FB-3 (400-176443-22), AZ20577 MW-16 (400-176443-23), AZ20578 MW-40H (400-176443-24), AZ20579 MW-15 (400-176443-25), AZ20580 MW-24 (400-176443-26), AZ20581 MW-23 (400-176443-27), AZ20582 FB-5 (400-176443-28), AZ20707 MW-26 (400-176443-29), AZ20707 MW-26 (400-176443-29[DU]), AZ20708 MW-27 (400-176443-30), AZ20709 MW-28 (400-176443-31), AZ20710 MW-29 (400-176443-32), AZ20711 MW-30 (400-176443-33), AZ20712 MW-35H (400-176443-34), AZ20713 EB-1 (400-176443-35), AZ20714 MW-31 (400-176443-36) and AZ20715 FB-4 (400-176443-37).

Method PrecSep-21: Radium 226 Prep Batch 160-443692. The following samples were prepared at a reduced aliquot due to limited volume: AZ20717 MW-33 DUP (400-176443-39), AZ20718 MW-32 (400-176443-40), AZ20719 MW-39H (400-176443-41), AZ20720 MW-38H (400-176443-42), AZ20721 EB-2 (400-176443-43), AZ20722 MW-5 (400-176443-44), AZ20723 MW-43H (400-176443-45), AZ20724 MW-43H DUP (400-176443-46), AZ20725 MW-42H (400-176443-47), AZ20726 MW-36H (400-176443-48), AZ20727 MW-13 (400-176443-49), AZ20728 FB-2 (400-176443-50), AZ20729 MW-41H (400-176443-51) and AZ20730 MW-44H (400-176443-52).

Method PrecSep-21: Radium 226 Prep Batch 160-443779. Insufficient sample volume was available to perform a sample duplicate for the following samples: AZ20716 MW-33 (400-176443-38). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-443779. The following samples were prepared at a reduced aliquot due to limited volume: AZ20716 MW-33 (400-176443-38).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-176443-1	AZ20555 MW-2	Water	09/09/19 14:48	09/16/19 13:10	
400-176443-2	AZ20556 MW-3	Water	09/09/19 16:05	09/16/19 13:10	
400-176443-3	AZ20557 MW-1	Water	09/10/19 09:20	09/16/19 13:10	
400-176443-4	AZ20558 MW-25	Water	09/10/19 10:24	09/16/19 13:10	
400-176443-5	AZ20559 MW-12	Water	09/10/19 11:34	09/16/19 13:10	
400-176443-6	AZ20560 MW-12 DUP	Water	09/10/19 11:34	09/16/19 13:10	
400-176443-7	AZ20561 MW-21	Water	09/10/19 12:34	09/16/19 13:10	
400-176443-8	AZ20562 FB-1	Water	09/10/19 12:45	09/16/19 13:10	
400-176443-9	AZ20563 MW-11	Water	09/10/19 13:42	09/16/19 13:10	
400-176443-10	AZ20564 PZ-4	Water	09/10/19 15:20	09/16/19 13:10	
400-176443-11	AZ20565 MW-34HA	Water	09/10/19 16:23	09/16/19 13:10	
400-176443-12	AZ20566 MW-9	Water	09/10/19 09:20	09/16/19 13:10	
400-176443-13	AZ20567 MW-8	Water	09/10/19 10:10	09/16/19 13:10	
400-176443-14	AZ20568 MW-8 DUP	Water	09/10/19 10:10	09/16/19 13:10	
400-176443-15	AZ20569 MW-7	Water	09/10/19 11:05	09/16/19 13:10	
400-176443-16	AZ20570 MW-6	Water	09/10/19 11:48	09/16/19 13:10	
400-176443-17	AZ20571 MW-10	Water	09/10/19 13:05	09/16/19 13:10	
400-176443-18	AZ20572 MW-14	Water	09/10/19 14:05	09/16/19 13:10	
400-176443-19	AZ20573 MW-18	Water	09/09/19 14:35	09/16/19 13:10	
400-176443-20	AZ20574 MW-18 DUP	Water	09/09/19 14:35	09/16/19 13:10	
400-176443-21	AZ20575 MW-17	Water	09/09/19 16:40	09/16/19 13:10	
400-176443-22	AZ20576 FB-3	Water	09/09/19 16:56	09/16/19 13:10	
400-176443-23	AZ20577 MW-16	Water	09/10/19 09:42	09/16/19 13:10	
400-176443-24	AZ20578 MW-40H	Water	09/10/19 11:20	09/16/19 13:10	
400-176443-25	AZ20579 MW-15	Water	09/10/19 12:43	09/16/19 13:10	
400-176443-26	AZ20580 MW-24	Water	09/10/19 14:45	09/16/19 13:10	
400-176443-27	AZ20581 MW-23	Water	09/10/19 16:35	09/16/19 13:10	
400-176443-28	AZ20582 FB-5	Water	09/10/19 17:00	09/16/19 13:10	
400-176443-29	AZ20707 MW-26	Water	09/11/19 10:00	09/16/19 13:10	
400-176443-30	AZ20708 MW-27	Water	09/11/19 10:55	09/16/19 13:10	
400-176443-31	AZ20709 MW-28	Water	09/11/19 11:50	09/16/19 13:10	
400-176443-32	AZ20710 MW-29	Water	09/11/19 13:10	09/16/19 13:10	
400-176443-33	AZ20711 MW-30	Water	09/11/19 14:05	09/16/19 13:10	
400-176443-34	AZ20712 MW-35H	Water	09/11/19 17:07	09/16/19 13:10	
400-176443-35	AZ20713 EB-1	Water	09/11/19 17:30	09/16/19 13:10	
400-176443-36	AZ20714 MW-31	Water	09/11/19 09:20	09/16/19 13:10	
400-176443-37	AZ20715 FB-4	Water	09/11/19 10:20	09/16/19 13:10	
400-176443-38	AZ20716 MW-33	Water	09/11/19 10:35	09/16/19 13:10	
400-176443-39	AZ20717 MW-33 DUP	Water	09/11/19 10:35	09/16/19 13:10	
400-176443-40	AZ20718 MW-32	Water	09/11/19 11:35	09/16/19 13:10	
400-176443-41	AZ20719 MW-39H	Water	09/11/19 13:27	09/16/19 13:10	
400-176443-42	AZ20720 MW-38H	Water	09/11/19 14:38	09/16/19 13:10	
400-176443-43	AZ20721 EB-2	Water	09/11/19 16:40	09/16/19 13:10	
400-176443-44	AZ20722 MW-5	Water	09/11/19 17:37	09/16/19 13:10	
400-176443-45	AZ20723 MW-43H	Water	09/11/19 10:30	09/16/19 13:10	
400-176443-46	AZ20724 MW-43H DUP	Water	09/11/19 10:30	09/16/19 13:10	
400-176443-47	AZ20725 MW-42H	Water	09/11/19 12:32	09/16/19 13:10	
400-176443-48	AZ20726 MW-36H	Water	09/11/19 13:53	09/16/19 13:10	
400-176443-49	AZ20727 MW-13	Water	09/11/19 15:11	09/16/19 13:10	
400-176443-50	AZ20728 FB-2	Water	09/11/19 15:26	09/16/19 13:10	
400-176443-51	AZ20729 MW-41H	Water	09/11/19 16:12	09/16/19 13:10	
400-176443-52	AZ20730 MW-44H	Water	09/11/19 17:13	09/16/19 13:10	

Client Sample ID: AZ20555 MW-2

Date Collected: 09/09/19 14:48
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.353		0.159	0.162	1.00	0.201	pCi/L	09/20/19 07:11	10/14/19 06:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0533	U	0.360	0.360	1.00	0.650	pCi/L	09/20/19 07:39	10/04/19 08:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*
Y Carrier	*83.4*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.300	U	0.394	0.395	5.00	0.650	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20556 MW-3

Date Collected: 09/09/19 16:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.695**		0.186	0.197	1.00	0.176	pCi/L	09/20/19 07:11	10/14/19 06:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428	U	0.346	0.348	1.00	0.549	pCi/L	09/20/19 07:39	10/04/19 08:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*
Y Carrier	*81.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.12**		0.393	0.400	5.00	0.549	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20557 MW-1

Date Collected: 09/10/19 09:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.494		0.165	0.171	1.00	0.170	pCi/L	09/20/19 07:11	10/14/19 06:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.895		0.426	0.434	1.00	0.626	pCi/L	09/20/19 07:39	10/04/19 08:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*
Y Carrier	*84.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:44*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.39		0.457	0.466	5.00	0.626	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20558 MW-25

Date Collected: 09/10/19 10:24
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.295**		0.134	0.137	1.00	0.163	pCi/L	09/20/19 07:11	10/14/19 06:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.283	U	0.308	0.309	1.00	0.504	pCi/L	09/20/19 07:39	10/04/19 08:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:48*	*1*
Y Carrier	*82.2*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:48*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.578**		0.336	0.338	5.00	0.504	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20559 MW-12

Date Collected: 09/10/19 11:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.174**		0.104	0.106	1.00	0.134	pCi/L	09/20/19 07:11	10/14/19 06:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.302	0.302	1.00	0.496	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*84.9*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.434	U	0.319	0.320	5.00	0.496	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20560 MW-12 DUP

Date Collected: 09/10/19 11:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0151	U	0.0819	0.0819	1.00	0.169	pCi/L	09/20/19 07:11	10/14/19 06:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.292	0.293	1.00	0.484	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*83.4*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.223	U	0.303	0.304	5.00	0.484	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20561 MW-21

Date Collected: 09/10/19 12:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195		0.124	0.125	1.00	0.170	pCi/L	09/20/19 07:11	10/14/19 06:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.106	U	0.316	0.316	1.00	0.582	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*86.7*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0889	U	0.339	0.340	5.00	0.582	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20562 FB-1

Date Collected: 09/10/19 12:45
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0695	U	0.0969	0.0971	1.00	0.164	pCi/L	09/20/19 07:11	10/14/19 06:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 06:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.508**		0.327	0.331	1.00	0.498	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*82.6*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.578**		0.341	0.345	5.00	0.498	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20563 MW-11

Date Collected: 09/10/19 13:42
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-9

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.238**		0.135	0.137	1.00	0.186	pCi/L	09/20/19 07:11	10/14/19 07:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*09/20/19 07:11*	*10/14/19 07:00*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.332	U	0.305	0.307	1.00	0.491	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*86.0*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.570**		0.334	0.336	5.00	0.491	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20564 PZ-4

Date Collected: 09/10/19 15:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-10

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.579		0.186	0.194	1.00	0.190	pCi/L	09/20/19 07:11	10/14/19 07:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*40 - 110*	*09/20/19 07:11*	*10/14/19 07:00*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.31		0.438	0.454	1.00	0.580	pCi/L	09/20/19 07:39	10/04/19 08:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*
Y Carrier	*82.6*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:49*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.89		0.476	0.494	5.00	0.580	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20565 MW-34HA

Date Collected: 09/10/19 16:23
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-11

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.276**		0.135	0.137	1.00	0.170	pCi/L	09/20/19 07:11	10/14/19 07:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*40 - 110*	*09/20/19 07:11*	*10/14/19 07:00*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.380	U	0.280	0.282	1.00	0.435	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*89.3*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.656**		0.311	0.314	5.00	0.435	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20566 MW-9

Date Collected: 09/10/19 09:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-12

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.526		0.163	0.170	1.00	0.169	pCi/L	09/20/19 07:11	10/14/19 08:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22		0.368	0.385	1.00	0.465	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.75		0.402	0.421	5.00	0.465	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20567 MW-8

Date Collected: 09/10/19 10:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.424**		0.148	0.153	1.00	0.149	pCi/L	09/20/19 07:11	10/14/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.474	U	0.341	0.344	1.00	0.531	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*82.6*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.898**		0.372	0.376	5.00	0.531	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20568 MW-8 DUP

Date Collected: 09/10/19 10:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.275		0.128	0.130	1.00	0.157	pCi/L	09/20/19 07:11	10/14/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.555		0.355	0.358	1.00	0.544	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*80.7*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.830		0.377	0.381	5.00	0.544	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20569 MW-7

Date Collected: 09/10/19 11:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.292**		0.127	0.130	1.00	0.139	pCi/L	09/20/19 07:11	10/14/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.277	U	0.359	0.360	1.00	0.597	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*84.1*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.569	U	0.381	0.383	5.00	0.597	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20570 MW-6

Date Collected: 09/10/19 11:48
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.276		0.130	0.132	1.00	0.162	pCi/L	09/20/19 07:11	10/14/19 08:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.861		0.381	0.389	1.00	0.542	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*78.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.14		0.403	0.411	5.00	0.542	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20571 MW-10

Date Collected: 09/10/19 13:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.480		0.163	0.169	1.00	0.166	pCi/L	09/20/19 07:11	10/14/19 08:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618		0.333	0.338	1.00	0.487	pCi/L	09/20/19 07:39	10/04/19 08:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*
Y Carrier	*78.9*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.10		0.371	0.378	5.00	0.487	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20572 MW-14

Date Collected: 09/10/19 14:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-18

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.424**		0.161	0.166	1.00	0.175	pCi/L	09/20/19 07:11	10/14/19 08:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428	U	0.384	0.386	1.00	0.617	pCi/L	09/20/19 07:39	10/04/19 08:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:51*	*1*
Y Carrier	*81.9*		*40 - 110*	*09/20/19 07:39*	*10/04/19 08:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.852**		0.416	0.420	5.00	0.617	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20573 MW-18

Date Collected: 09/09/19 14:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-19

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.395		0.167	0.170	1.00	0.204	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.2*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.683		0.397	0.402	1.00	0.600	pCi/L	09/20/19 09:47	10/04/19 08:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.2*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:36*	*1*
Y Carrier	*84.9*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.431	0.436	5.00	0.600	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20574 MW-18 DUP

Date Collected: 09/09/19 14:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-20

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.350		0.144	0.148	1.00	0.168	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.719		0.366	0.372	1.00	0.543	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*88.2*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.393	0.400	5.00	0.543	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20575 MW-17

Date Collected: 09/09/19 16:40
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-21

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.659		0.188	0.197	1.00	0.187	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.630		0.366	0.371	1.00	0.554	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*83.7*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.29		0.411	0.420	5.00	0.554	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20576 FB-3

Date Collected: 09/09/19 16:56
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-22

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0422	U	0.0650	0.0651	1.00	0.153	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.435	U	0.334	0.336	1.00	0.527	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*83.4*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.392	U	0.340	0.342	5.00	0.527	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20577 MW-16

Date Collected: 09/10/19 09:42
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-23

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.118	0.119	1.00	0.163	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.5*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.340	U	0.361	0.363	1.00	0.590	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*88.6*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.516	U	0.380	0.382	5.00	0.590	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20578 MW-40H

Date Collected: 09/10/19 11:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-24

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0264	U	0.0888	0.0889	1.00	0.166	pCi/L	09/20/19 09:20	10/14/19 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.493	U	0.342	0.345	1.00	0.533	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*89.7*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.519	U	0.353	0.356	5.00	0.533	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20579 MW-15

Date Collected: 09/10/19 12:43
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-25

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0541	U	0.0772	0.0774	1.00	0.131	pCi/L	09/20/19 09:20	10/14/19 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.280	0.281	1.00	0.461	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*88.6*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.300	U	0.290	0.291	5.00	0.461	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20580 MW-24

Date Collected: 09/10/19 14:45
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-26

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.332		0.140	0.144	1.00	0.168	pCi/L	09/20/19 09:20	10/14/19 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.879		0.383	0.392	1.00	0.548	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*84.1*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.21		0.408	0.418	5.00	0.548	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20581 MW-23

Date Collected: 09/10/19 16:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-27

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.165**		0.114	0.115	1.00	0.161	pCi/L	09/20/19 09:20	10/14/19 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0544	U	0.305	0.305	1.00	0.536	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*84.1*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.219	U	0.326	0.326	5.00	0.536	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20582 FB-5

Date Collected: 09/10/19 17:00
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-28

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0133	U	0.0845	0.0845	1.00	0.178	pCi/L	09/20/19 09:20	10/14/19 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.5*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.331	0.333	1.00	0.540	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*86.4*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.302	U	0.342	0.344	5.00	0.540	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20707 MW-26

Date Collected: 09/11/19 10:00
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-29

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0572	U	0.110	0.110	1.00	0.194	pCi/L	09/20/19 09:20	10/14/19 11:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.504	U	0.352	0.355	1.00	0.548	pCi/L	09/20/19 09:47	10/04/19 08:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*
Y Carrier	*84.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:37*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.561**		0.369	0.372	5.00	0.548	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20708 MW-27

Date Collected: 09/11/19 10:55
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-30

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159	U	0.117	0.118	1.00	0.171	pCi/L	09/20/19 09:20	10/14/19 11:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*09/20/19 09:20*	*10/14/19 11:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.209	U	0.385	0.386	1.00	0.651	pCi/L	09/20/19 09:47	10/04/19 08:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*
Y Carrier	*84.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.368	U	0.402	0.404	5.00	0.651	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20709 MW-28

Date Collected: 09/11/19 11:50
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-31

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.103	0.103	1.00	0.162	pCi/L	09/20/19 09:20	10/14/19 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.890**		0.421	0.429	1.00	0.621	pCi/L	09/20/19 09:47	10/04/19 08:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.995**		0.433	0.441	5.00	0.621	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20710 MW-29

Date Collected: 09/11/19 13:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-32

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000910	U	0.0895	0.0895	1.00	0.174	pCi/L	09/20/19 09:20	10/14/19 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.349	0.350	1.00	0.585	pCi/L	09/20/19 09:47	10/04/19 08:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.9*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*
Y Carrier	*87.1*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.237	U	0.360	0.361	5.00	0.585	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20711 MW-30

Date Collected: 09/11/19 14:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-33

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.116	0.117	1.00	0.168	pCi/L	09/20/19 09:20	10/14/19 13:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.832**		0.471	0.477	1.00	0.723	pCi/L	09/20/19 09:47	10/04/19 08:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*
Y Carrier	*82.2*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:42*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.995**		0.485	0.491	5.00	0.723	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20712 MW-35H

Date Collected: 09/11/19 17:07
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-34

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.109	0.110	1.00	0.175	pCi/L	09/20/19 09:20	10/14/19 13:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.629**		0.365	0.370	1.00	0.555	pCi/L	09/20/19 09:47	10/04/19 08:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*
Y Carrier	*85.2*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.734**		0.381	0.386	5.00	0.555	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20713 EB-1

Date Collected: 09/11/19 17:30
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-35

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0744	U	0.0605	0.0609	1.00	0.163	pCi/L	09/20/19 09:20	10/14/19 13:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U	0.351	0.351	1.00	0.589	pCi/L	09/20/19 09:47	10/04/19 08:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*
Y Carrier	*86.0*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.356	0.356	5.00	0.589	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20714 MW-31

Date Collected: 09/11/19 09:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-36

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0326	U	0.0796	0.0796	1.00	0.146	pCi/L	09/20/19 09:20	10/14/19 13:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.247	U	0.341	0.342	1.00	0.569	pCi/L	09/20/19 09:47	10/04/19 08:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*
Y Carrier	*92.0*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.280	U	0.350	0.351	5.00	0.569	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20715 FB-4

Date Collected: 09/11/19 10:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-37

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0389	U	0.0668	0.0669	1.00	0.153	pCi/L	09/20/19 09:20	10/14/19 13:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*40 - 110*	*09/20/19 09:20*	*10/14/19 13:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.185	U	0.316	0.317	1.00	0.534	pCi/L	09/20/19 09:47	10/04/19 08:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*
Y Carrier	*87.5*		*40 - 110*	*09/20/19 09:47*	*10/04/19 08:43*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.146	U	0.323	0.324	5.00	0.534	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20716 MW-33

Date Collected: 09/11/19 10:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-38

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.336**		0.146	0.149	1.00	0.174	pCi/L	09/24/19 08:06	10/17/19 16:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*40 - 110*	*09/24/19 08:06*	*10/17/19 16:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.596	U	0.402	0.406	1.00	0.620	pCi/L	09/24/19 10:00	10/07/19 13:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*40 - 110*	*09/24/19 10:00*	*10/07/19 13:45*	*1*
Y Carrier	*83.7*		*40 - 110*	*09/24/19 10:00*	*10/07/19 13:45*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.02**		0.435	0.441	5.00	0.620	pCi/L		10/16/19 08:34	1

Client Sample ID: AZ20717 MW-33 DUP

Date Collected: 09/11/19 10:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-39

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.465		0.148	0.154	1.00	0.116	pCi/L	09/23/19 07:09	10/15/19 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*09/23/19 07:09*	*10/15/19 19:55*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.657		0.422	0.426	1.00	0.652	pCi/L	09/23/19 07:49	10/07/19 17:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:33*	*1*
Y Carrier	*82.2*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:33*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.447	0.453	5.00	0.652	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20718 MW-32

Date Collected: 09/11/19 11:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-40

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0484	U	0.0880	0.0881	1.00	0.156	pCi/L	09/23/19 07:09	10/15/19 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*40 - 110*	*09/23/19 07:09*	*10/15/19 19:55*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.512	U	0.300	0.304	1.00	0.631	pCi/L	09/23/19 07:49	10/07/19 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.2*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*
Y Carrier	*85.2*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.464	U	0.313	0.317	5.00	0.631	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20719 MW-39H

Date Collected: 09/11/19 13:27
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-41

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.353		0.138	0.141	1.00	0.135	pCi/L	09/23/19 07:09	10/15/19 19:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*40 - 110*	*09/23/19 07:09*	*10/15/19 19:55*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.806		0.418	0.425	1.00	0.617	pCi/L	09/23/19 07:49	10/07/19 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*
Y Carrier	*80.4*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.16		0.440	0.448	5.00	0.617	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20720 MW-38H

Date Collected: 09/11/19 14:38
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-42

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00518	U	0.111	0.111	1.00	0.212	pCi/L	09/23/19 07:09	10/15/19 19:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*09/23/19 07:09*	*10/15/19 19:56*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.21**		0.441	0.455	1.00	0.604	pCi/L	09/23/19 07:49	10/07/19 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*
Y Carrier	*86.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.22**		0.455	0.468	5.00	0.604	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20721 EB-2

Date Collected: 09/11/19 16:40
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-43

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0354	U	0.0489	0.0490	1.00	0.132	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.263	U	0.447	0.448	1.00	0.756	pCi/L	09/23/19 07:49	10/07/19 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*
Y Carrier	*66.9*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.227	U	0.450	0.451	5.00	0.756	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20722 MW-5

Date Collected: 09/11/19 17:37
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-44

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.797		0.194	0.207	1.00	0.153	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.660		0.368	0.373	1.00	0.545	pCi/L	09/23/19 07:49	10/07/19 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*
Y Carrier	*83.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.46		0.416	0.427	5.00	0.545	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20723 MW-43H

Date Collected: 09/11/19 10:30
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-45

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.373		0.140	0.144	1.00	0.142	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.185	U	0.332	0.333	1.00	0.565	pCi/L	09/23/19 07:49	10/07/19 17:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:35*	*1*
Y Carrier	*83.4*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.558	U	0.360	0.363	5.00	0.565	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20724 MW-43H DUP

Date Collected: 09/11/19 10:30
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-46

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.360**		0.130	0.134	1.00	0.112	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.400	0.401	1.00	0.662	pCi/L	09/23/19 07:49	10/07/19 17:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:35*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.681**		0.421	0.423	5.00	0.662	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20725 MW-42H

Date Collected: 09/11/19 12:32
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-47

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.487		0.164	0.170	1.00	0.161	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.293	U	0.435	0.436	1.00	0.810	pCi/L	09/23/19 07:49	10/07/19 17:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:28*	*1*
Y Carrier	*81.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.195	U	0.465	0.468	5.00	0.810	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20726 MW-36H

Date Collected: 09/11/19 13:53
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-48

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0839	U	0.0849	0.0852	1.00	0.132	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.354	0.356	1.00	0.579	pCi/L	09/23/19 07:49	10/07/19 17:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:28*	*1*
Y Carrier	*83.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.412	U	0.364	0.366	5.00	0.579	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20727 MW-13

Date Collected: 09/11/19 15:11
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-49

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0544	U	0.114	0.115	1.00	0.202	pCi/L	09/23/19 07:09	10/15/19 21:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*09/23/19 07:09*	*10/15/19 21:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.503	U	0.442	0.444	1.00	0.712	pCi/L	09/23/19 07:49	10/07/19 17:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:29*	*1*
Y Carrier	*83.4*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:29*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.557	U	0.456	0.459	5.00	0.712	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20728 FB-2

Date Collected: 09/11/19 15:26
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-50

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00871	U	0.0814	0.0814	1.00	0.166	pCi/L	09/23/19 07:09	10/16/19 08:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*09/23/19 07:09*	*10/16/19 08:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.252	U	0.283	0.284	1.00	0.555	pCi/L	09/23/19 07:49	10/07/19 17:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:29*	*1*
Y Carrier	*85.6*		*40 - 110*	*09/23/19 07:49*	*10/07/19 17:29*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.261	U	0.294	0.295	5.00	0.555	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20729 MW-41H

Date Collected: 09/11/19 16:12
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-51

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.299		0.154	0.156	1.00	0.204	pCi/L	09/23/19 07:09	10/16/19 08:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/23/19 07:09*	*10/16/19 08:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.170	U	0.418	0.418	1.00	0.786	pCi/L	09/23/19 07:49	10/07/19 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:38*	*1*
Y Carrier	*80.0*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.130	U	0.445	0.446	5.00	0.786	pCi/L		10/17/19 09:23	1

Client Sample ID: AZ20730 MW-44H

Date Collected: 09/11/19 17:13
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-52

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.177		0.121	0.122	1.00	0.172	pCi/L	09/23/19 07:09	10/16/19 08:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*09/23/19 07:09*	*10/16/19 08:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.460	U	0.415	0.417	1.00	0.665	pCi/L	09/23/19 07:49	10/07/19 19:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:38*	*1*
Y Carrier	*84.5*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.637	U	0.432	0.434	5.00	0.665	pCi/L		10/17/19 09:23	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20555 MW-2
Date Collected: 09/09/19 14:48
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:44	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20556 MW-3
Date Collected: 09/09/19 16:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:44	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20557 MW-1
Date Collected: 09/10/19 09:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:44	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20558 MW-25
Date Collected: 09/10/19 10:24
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:48	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20559 MW-12
Date Collected: 09/10/19 11:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20560 MW-12 DUP
Date Collected: 09/10/19 11:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20561 MW-21
Date Collected: 09/10/19 12:34
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20562 FB-1
Date Collected: 09/10/19 12:45
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 06:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20563 MW-11
Date Collected: 09/10/19 13:42
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 07:00	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20564 PZ-4
Date Collected: 09/10/19 15:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 07:00	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:49	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20565 MW-34HA
Date Collected: 09/10/19 16:23
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 07:00	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20566 MW-9
Date Collected: 09/10/19 09:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:57	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20567 MW-8
Date Collected: 09/10/19 10:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20568 MW-8 DUP
Date Collected: 09/10/19 10:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20569 MW-7
Date Collected: 09/10/19 11:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20570 MW-6
Date Collected: 09/10/19 11:48
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:58	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20571 MW-10
Date Collected: 09/10/19 13:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:50	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20572 MW-14
Date Collected: 09/10/19 14:05
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443512	09/20/19 07:11	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 08:59	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443514	09/20/19 07:39	EJQ	TAL SL
Total/NA	Analysis	9320		1	445039	10/04/19 08:51	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20573 MW-18
Date Collected: 09/09/19 14:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:36	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20574 MW-18 DUP
Date Collected: 09/09/19 14:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20575 MW-17
Date Collected: 09/09/19 16:40
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20576 FB-3
Date Collected: 09/09/19 16:56
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20577 MW-16
Date Collected: 09/10/19 09:42
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20578 MW-40H
Date Collected: 09/10/19 11:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20579 MW-15
Date Collected: 09/10/19 12:43
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20580 MW-24
Date Collected: 09/10/19 14:45
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20581 MW-23
Date Collected: 09/10/19 16:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20582 FB-5
Date Collected: 09/10/19 17:00
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20707 MW-26
Date Collected: 09/11/19 10:00
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:17	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445087	10/04/19 08:37	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20708 MW-27
Date Collected: 09/11/19 10:55
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 11:17	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:42	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20709 MW-28
Date Collected: 09/11/19 11:50
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:42	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20710 MW-29
Date Collected: 09/11/19 13:10
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:42	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20711 MW-30

Lab Sample ID: 400-176443-33
Matrix: Water
Date Collected: 09/11/19 14:05
Date Received: 09/16/19 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:17	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:42	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20712 MW-35H

Lab Sample ID: 400-176443-34
Matrix: Water
Date Collected: 09/11/19 17:07
Date Received: 09/16/19 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:17	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:43	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20713 EB-1

Lab Sample ID: 400-176443-35
Matrix: Water
Date Collected: 09/11/19 17:30
Date Received: 09/16/19 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:17	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:43	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20714 MW-31

Lab Sample ID: 400-176443-36
Matrix: Water
Date Collected: 09/11/19 09:20
Date Received: 09/16/19 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:18	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:43	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20715 FB-4
Date Collected: 09/11/19 10:20
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443518	09/20/19 09:20	EJQ	TAL SL
Total/NA	Analysis	9315		1	446037	10/14/19 13:18	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			443526	09/20/19 09:47	EJQ	TAL SL
Total/NA	Analysis	9320		1	445036	10/04/19 08:43	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20716 MW-33
Date Collected: 09/11/19 10:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443779	09/24/19 08:06	EJQ	TAL SL
Total/NA	Analysis	9315		1	446517	10/17/19 16:26	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443878	09/24/19 10:00	EJQ	TAL SL
Total/NA	Analysis	9320		1	445349	10/07/19 13:45	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446417	10/16/19 08:34	SMP	TAL SL

Client Sample ID: AZ20717 MW-33 DUP
Date Collected: 09/11/19 10:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 19:55	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:33	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20718 MW-32
Date Collected: 09/11/19 11:35
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 19:55	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20719 MW-39H
Date Collected: 09/11/19 13:27
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 19:55	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20720 MW-38H
Date Collected: 09/11/19 14:38
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 19:56	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20721 EB-2
Date Collected: 09/11/19 16:40
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-43
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20722 MW-5
Date Collected: 09/11/19 17:37
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20723 MW-43H
Date Collected: 09/11/19 10:30
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20724 MW-43H DUP
Date Collected: 09/11/19 10:30
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-46
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445305	10/07/19 17:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20725 MW-42H
Date Collected: 09/11/19 12:32
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-47
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445349	10/07/19 17:28	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20726 MW-36H
Date Collected: 09/11/19 13:53
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445349	10/07/19 17:28	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Client Sample ID: AZ20727 MW-13
Date Collected: 09/11/19 15:11
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446260	10/15/19 21:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445349	10/07/19 17:29	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20728 FB-2
Date Collected: 09/11/19 15:26
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446416	10/16/19 08:18	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445349	10/07/19 17:29	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20729 MW-41H
Date Collected: 09/11/19 16:12
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-51
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446416	10/16/19 08:18	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445308	10/07/19 19:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Client Sample ID: AZ20730 MW-44H
Date Collected: 09/11/19 17:13
Date Received: 09/16/19 13:10

Lab Sample ID: 400-176443-52
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			443692	09/23/19 07:09	EJQ	TAL SL
Total/NA	Analysis	9315		1	446416	10/16/19 08:18	AJD	TAL SL
Total/NA	Prep	PrecSep_0			443693	09/23/19 07:49	EJQ	TAL SL
Total/NA	Analysis	9320		1	445308	10/07/19 19:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	446532	10/17/19 09:23	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Rad

Prep Batch: 443512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-1	AZ20555 MW-2	Total/NA	Water	PrecSep-21	
400-176443-2	AZ20556 MW-3	Total/NA	Water	PrecSep-21	
400-176443-3	AZ20557 MW-1	Total/NA	Water	PrecSep-21	
400-176443-4	AZ20558 MW-25	Total/NA	Water	PrecSep-21	
400-176443-5	AZ20559 MW-12	Total/NA	Water	PrecSep-21	
400-176443-6	AZ20560 MW-12 DUP	Total/NA	Water	PrecSep-21	
400-176443-7	AZ20561 MW-21	Total/NA	Water	PrecSep-21	
400-176443-8	AZ20562 FB-1	Total/NA	Water	PrecSep-21	
400-176443-9	AZ20563 MW-11	Total/NA	Water	PrecSep-21	
400-176443-10	AZ20564 PZ-4	Total/NA	Water	PrecSep-21	
400-176443-11	AZ20565 MW-34HA	Total/NA	Water	PrecSep-21	
400-176443-12	AZ20566 MW-9	Total/NA	Water	PrecSep-21	
400-176443-13	AZ20567 MW-8	Total/NA	Water	PrecSep-21	
400-176443-14	AZ20568 MW-8 DUP	Total/NA	Water	PrecSep-21	
400-176443-15	AZ20569 MW-7	Total/NA	Water	PrecSep-21	
400-176443-16	AZ20570 MW-6	Total/NA	Water	PrecSep-21	
400-176443-17	AZ20571 MW-10	Total/NA	Water	PrecSep-21	
400-176443-18	AZ20572 MW-14	Total/NA	Water	PrecSep-21	
MB 160-443512/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-443512/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-176443-3 DU	AZ20557 MW-1	Total/NA	Water	PrecSep-21	
400-176443-12 DU	AZ20566 MW-9	Total/NA	Water	PrecSep-21	

Prep Batch: 443514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-1	AZ20555 MW-2	Total/NA	Water	PrecSep_0	
400-176443-2	AZ20556 MW-3	Total/NA	Water	PrecSep_0	
400-176443-3	AZ20557 MW-1	Total/NA	Water	PrecSep_0	
400-176443-4	AZ20558 MW-25	Total/NA	Water	PrecSep_0	
400-176443-5	AZ20559 MW-12	Total/NA	Water	PrecSep_0	
400-176443-6	AZ20560 MW-12 DUP	Total/NA	Water	PrecSep_0	
400-176443-7	AZ20561 MW-21	Total/NA	Water	PrecSep_0	
400-176443-8	AZ20562 FB-1	Total/NA	Water	PrecSep_0	
400-176443-9	AZ20563 MW-11	Total/NA	Water	PrecSep_0	
400-176443-10	AZ20564 PZ-4	Total/NA	Water	PrecSep_0	
400-176443-11	AZ20565 MW-34HA	Total/NA	Water	PrecSep_0	
400-176443-12	AZ20566 MW-9	Total/NA	Water	PrecSep_0	
400-176443-13	AZ20567 MW-8	Total/NA	Water	PrecSep_0	
400-176443-14	AZ20568 MW-8 DUP	Total/NA	Water	PrecSep_0	
400-176443-15	AZ20569 MW-7	Total/NA	Water	PrecSep_0	
400-176443-16	AZ20570 MW-6	Total/NA	Water	PrecSep_0	
400-176443-17	AZ20571 MW-10	Total/NA	Water	PrecSep_0	
400-176443-18	AZ20572 MW-14	Total/NA	Water	PrecSep_0	
MB 160-443514/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-443514/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-176443-3 DU	AZ20557 MW-1	Total/NA	Water	PrecSep_0	
400-176443-12 DU	AZ20566 MW-9	Total/NA	Water	PrecSep_0	

Prep Batch: 443518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-19	AZ20573 MW-18	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 443518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-20	AZ20574 MW-18 DUP	Total/NA	Water	PrecSep-21	
400-176443-21	AZ20575 MW-17	Total/NA	Water	PrecSep-21	
400-176443-22	AZ20576 FB-3	Total/NA	Water	PrecSep-21	
400-176443-23	AZ20577 MW-16	Total/NA	Water	PrecSep-21	
400-176443-24	AZ20578 MW-40H	Total/NA	Water	PrecSep-21	
400-176443-25	AZ20579 MW-15	Total/NA	Water	PrecSep-21	
400-176443-26	AZ20580 MW-24	Total/NA	Water	PrecSep-21	
400-176443-27	AZ20581 MW-23	Total/NA	Water	PrecSep-21	
400-176443-28	AZ20582 FB-5	Total/NA	Water	PrecSep-21	
400-176443-29	AZ20707 MW-26	Total/NA	Water	PrecSep-21	
400-176443-30	AZ20708 MW-27	Total/NA	Water	PrecSep-21	
400-176443-31	AZ20709 MW-28	Total/NA	Water	PrecSep-21	
400-176443-32	AZ20710 MW-29	Total/NA	Water	PrecSep-21	
400-176443-33	AZ20711 MW-30	Total/NA	Water	PrecSep-21	
400-176443-34	AZ20712 MW-35H	Total/NA	Water	PrecSep-21	
400-176443-35	AZ20713 EB-1	Total/NA	Water	PrecSep-21	
400-176443-36	AZ20714 MW-31	Total/NA	Water	PrecSep-21	
400-176443-37	AZ20715 FB-4	Total/NA	Water	PrecSep-21	
MB 160-443518/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-443518/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-176443-29 DU	AZ20707 MW-26	Total/NA	Water	PrecSep-21	

Prep Batch: 443526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-19	AZ20573 MW-18	Total/NA	Water	PrecSep_0	
400-176443-20	AZ20574 MW-18 DUP	Total/NA	Water	PrecSep_0	
400-176443-21	AZ20575 MW-17	Total/NA	Water	PrecSep_0	
400-176443-22	AZ20576 FB-3	Total/NA	Water	PrecSep_0	
400-176443-23	AZ20577 MW-16	Total/NA	Water	PrecSep_0	
400-176443-24	AZ20578 MW-40H	Total/NA	Water	PrecSep_0	
400-176443-25	AZ20579 MW-15	Total/NA	Water	PrecSep_0	
400-176443-26	AZ20580 MW-24	Total/NA	Water	PrecSep_0	
400-176443-27	AZ20581 MW-23	Total/NA	Water	PrecSep_0	
400-176443-28	AZ20582 FB-5	Total/NA	Water	PrecSep_0	
400-176443-29	AZ20707 MW-26	Total/NA	Water	PrecSep_0	
400-176443-30	AZ20708 MW-27	Total/NA	Water	PrecSep_0	
400-176443-31	AZ20709 MW-28	Total/NA	Water	PrecSep_0	
400-176443-32	AZ20710 MW-29	Total/NA	Water	PrecSep_0	
400-176443-33	AZ20711 MW-30	Total/NA	Water	PrecSep_0	
400-176443-34	AZ20712 MW-35H	Total/NA	Water	PrecSep_0	
400-176443-35	AZ20713 EB-1	Total/NA	Water	PrecSep_0	
400-176443-36	AZ20714 MW-31	Total/NA	Water	PrecSep_0	
400-176443-37	AZ20715 FB-4	Total/NA	Water	PrecSep_0	
MB 160-443526/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-443526/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-176443-29 DU	AZ20707 MW-26	Total/NA	Water	PrecSep_0	

Prep Batch: 443692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-39	AZ20717 MW-33 DUP	Total/NA	Water	PrecSep-21	
400-176443-40	AZ20718 MW-32	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 443692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-41	AZ20719 MW-39H	Total/NA	Water	PrecSep-21	
400-176443-42	AZ20720 MW-38H	Total/NA	Water	PrecSep-21	
400-176443-43	AZ20721 EB-2	Total/NA	Water	PrecSep-21	
400-176443-44	AZ20722 MW-5	Total/NA	Water	PrecSep-21	
400-176443-45	AZ20723 MW-43H	Total/NA	Water	PrecSep-21	
400-176443-46	AZ20724 MW-43H DUP	Total/NA	Water	PrecSep-21	
400-176443-47	AZ20725 MW-42H	Total/NA	Water	PrecSep-21	
400-176443-48	AZ20726 MW-36H	Total/NA	Water	PrecSep-21	
400-176443-49	AZ20727 MW-13	Total/NA	Water	PrecSep-21	
400-176443-50	AZ20728 FB-2	Total/NA	Water	PrecSep-21	
400-176443-51	AZ20729 MW-41H	Total/NA	Water	PrecSep-21	
400-176443-52	AZ20730 MW-44H	Total/NA	Water	PrecSep-21	
MB 160-443692/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-443692/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-35678-G-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 443693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-39	AZ20717 MW-33 DUP	Total/NA	Water	PrecSep_0	
400-176443-40	AZ20718 MW-32	Total/NA	Water	PrecSep_0	
400-176443-41	AZ20719 MW-39H	Total/NA	Water	PrecSep_0	
400-176443-42	AZ20720 MW-38H	Total/NA	Water	PrecSep_0	
400-176443-43	AZ20721 EB-2	Total/NA	Water	PrecSep_0	
400-176443-44	AZ20722 MW-5	Total/NA	Water	PrecSep_0	
400-176443-45	AZ20723 MW-43H	Total/NA	Water	PrecSep_0	
400-176443-46	AZ20724 MW-43H DUP	Total/NA	Water	PrecSep_0	
400-176443-47	AZ20725 MW-42H	Total/NA	Water	PrecSep_0	
400-176443-48	AZ20726 MW-36H	Total/NA	Water	PrecSep_0	
400-176443-49	AZ20727 MW-13	Total/NA	Water	PrecSep_0	
400-176443-50	AZ20728 FB-2	Total/NA	Water	PrecSep_0	
400-176443-51	AZ20729 MW-41H	Total/NA	Water	PrecSep_0	
400-176443-52	AZ20730 MW-44H	Total/NA	Water	PrecSep_0	
MB 160-443693/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-443693/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-35678-G-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 443779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-38	AZ20716 MW-33	Total/NA	Water	PrecSep-21	
MB 160-443779/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-443779/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-443779/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 443878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-176443-38	AZ20716 MW-33	Total/NA	Water	PrecSep_0	
MB 160-443878/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-443878/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-443878/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-443512/22-A
Matrix: Water
Analysis Batch: 446037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443512

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03251	U	0.0908	0.0908	1.00	0.190	pCi/L	09/20/19 07:11	10/14/19 08:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*09/20/19 07:11*	*10/14/19 08:59*	*1*

Lab Sample ID: LCS 160-443512/1-A
Matrix: Water
Analysis Batch: 446037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443512

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.56		1.32	1.00	0.174	pCi/L	83	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.1*		*40 - 110*

Lab Sample ID: 400-176443-3 DU
Matrix: Water
Analysis Batch: 446037

Client Sample ID: AZ20557 MW-1
Prep Type: Total/NA
Prep Batch: 443512

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.494			0.3875		0.152	1.00	0.158	pCi/L			0.33	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*83.9*		*40 - 110*

Lab Sample ID: 400-176443-12 DU
Matrix: Water
Analysis Batch: 446037

Client Sample ID: AZ20566 MW-9
Prep Type: Total/NA
Prep Batch: 443512

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.526			0.7679		0.201	1.00	0.159	pCi/L			0.65	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*91.2*		*40 - 110*

Lab Sample ID: MB 160-443518/22-A
Matrix: Water
Analysis Batch: 446037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443518

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02373	U	0.0557	0.0558	1.00	0.134	pCi/L	09/20/19 09:20	10/14/19 13:18	1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-443518/22-A
Matrix: Water
Analysis Batch: 446037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443518

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110	09/20/19 09:20	10/14/19 13:18	1

Lab Sample ID: LCS 160-443518/1-A
Matrix: Water
Analysis Batch: 446037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443518

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.64		1.44	1.00	0.174	pCi/L	90	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	83.3		40 - 110

Lab Sample ID: 400-176443-29 DU
Matrix: Water
Analysis Batch: 446037

Client Sample ID: AZ20707 MW-26
Prep Type: Total/NA
Prep Batch: 443518

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0572	U		0.03984	U	0.0904	1.00	0.163	pCi/L			0.09	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	99.7		40 - 110

Lab Sample ID: MB 160-443692/22-A
Matrix: Water
Analysis Batch: 446416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443692

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03133	U	0.0538	0.0539	1.00	0.123	pCi/L	09/23/19 07:09	10/16/19 08:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110	09/23/19 07:09	10/16/19 08:19	1

Lab Sample ID: LCS 160-443692/1-A
Matrix: Water
Analysis Batch: 446260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443692

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	9.980		1.06	1.00	0.106	pCi/L	88	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.5		40 - 110

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 160-35678-G-1-A DU
Matrix: Water
Analysis Batch: 446416

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 443692

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.492			0.5480		0.159	1.00	0.145	pCi/L			0.18	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*

Lab Sample ID: MB 160-443779/18-A
Matrix: Water
Analysis Batch: 446517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443779

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06410	U	0.0537	0.0540	1.00	0.141	pCi/L	09/24/19 08:06	10/17/19 16:26	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/24/19 08:06*	*10/17/19 16:26*	*1*

Lab Sample ID: LCS 160-443779/1-A
Matrix: Water
Analysis Batch: 446517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443779

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.4	11.07		1.16	1.00	0.133	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.8*		*40 - 110*

Lab Sample ID: LCSD 160-443779/2-A
Matrix: Water
Analysis Batch: 446517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 443779

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.4	9.434		1.03	1.00	0.118	pCi/L	83	75 - 125	0.75	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*73.2*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-443514/22-A
Matrix: Water
Analysis Batch: 445039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443514

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03231	U	0.268	0.268	1.00	0.496	pCi/L	09/20/19 07:39	10/04/19 08:51	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110	09/20/19 07:39	10/04/19 08:51	1
Y Carrier	80.0		40 - 110	09/20/19 07:39	10/04/19 08:51	1

Lab Sample ID: LCS 160-443514/1-A
Matrix: Water
Analysis Batch: 445036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443514

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			12.7	13.08		1.53	1.00	0.558	pCi/L	103	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.1		40 - 110
Y Carrier	81.1		40 - 110

Lab Sample ID: 400-176443-3 DU
Matrix: Water
Analysis Batch: 445036

Client Sample ID: AZ20557 MW-1
Prep Type: Total/NA
Prep Batch: 443514

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.895			0.9674		0.440	1.00	0.627	pCi/L			0.08	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	83.9		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: 400-176443-12 DU
Matrix: Water
Analysis Batch: 445039

Client Sample ID: AZ20566 MW-9
Prep Type: Total/NA
Prep Batch: 443514

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.22			1.349		0.464	1.00	0.614	pCi/L			0.15	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	91.2		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-443526/22-A
Matrix: Water
Analysis Batch: 445036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443526

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3197	U	0.357	0.358	1.00	0.586	pCi/L	09/20/19 09:47	10/04/19 08:43	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110	09/20/19 09:47	10/04/19 08:43	1
Y Carrier	84.1		40 - 110	09/20/19 09:47	10/04/19 08:43	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-443526/1-A
Matrix: Water
Analysis Batch: 445087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443526

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			12.7	11.45		1.38	1.00	0.558	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*83.3*		*40 - 110*
Y Carrier	*87.1*		*40 - 110*

Lab Sample ID: 400-176443-29 DU
Matrix: Water
Analysis Batch: 445087

Client Sample ID: AZ20707 MW-26
Prep Type: Total/NA
Prep Batch: 443526

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.504	U		0.3765	U	0.310	1.00	0.491	pCi/L			0.19	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*99.7*		*40 - 110*
Y Carrier	*88.2*		*40 - 110*

Lab Sample ID: MB 160-443693/22-A
Matrix: Water
Analysis Batch: 445308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443693

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.09556	U	0.296	0.296	1.00	0.551	pCi/L	09/23/19 07:49	10/07/19 19:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:37*	*1*
Y Carrier	*79.3*		*40 - 110*	*09/23/19 07:49*	*10/07/19 19:37*	*1*

Lab Sample ID: LCS 160-443693/1-A
Matrix: Water
Analysis Batch: 445305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443693

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.52	10.82		1.29	1.00	0.544	pCi/L	114	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*82.5*		*40 - 110*
Y Carrier	*80.4*		*40 - 110*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 160-35678-G-1-B DU
Matrix: Water
Analysis Batch: 445308

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 443693

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.336	U		0.3020	U	0.326	1.00	0.531	pCi/L			0.05	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*
Y Carrier	*86.0*		*40 - 110*

Lab Sample ID: MB 160-443878/18-A
Matrix: Water
Analysis Batch: 445349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443878

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.07930	U	0.301	0.301	1.00	0.525	pCi/L	09/24/19 10:00	10/07/19 13:46	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*09/24/19 10:00*	*10/07/19 13:46*	*1*
Y Carrier	*80.4*		*40 - 110*	*09/24/19 10:00*	*10/07/19 13:46*	*1*

Lab Sample ID: LCS 160-443878/1-A
Matrix: Water
Analysis Batch: 445305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443878

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.52	8.300		1.07	1.00	0.554	pCi/L	87	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.8*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

Lab Sample ID: LCSD 160-443878/2-A
Matrix: Water
Analysis Batch: 445305

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 443878

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			9.52	9.115		1.21	1.00	0.659	pCi/L	96	75 - 125	0.36	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*73.2*		*40 - 110*
Y Carrier	*75.1*		*40 - 110*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Lab Sample ID: 400-176443-3 DU
Matrix: Water
Analysis Batch: 446417

Client Sample ID: AZ20557 MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	1.39			1.355		0.466	5.00	0.627	pCi/L			0.04	

Lab Sample ID: 400-176443-12 DU
Matrix: Water
Analysis Batch: 446417

Client Sample ID: AZ20566 MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	1.75			2.117		0.506	5.00	0.614	pCi/L			0.40	

Lab Sample ID: 400-176443-29 DU
Matrix: Water
Analysis Batch: 446417

Client Sample ID: AZ20707 MW-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Combined Radium 226 + 228	0.561			0.4163	U	0.323	5.00	0.491	pCi/L			0.21	

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

400-176443 COC

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20555	9/9/19	14:48	G	Water						X	1	MW-2
AZ20556	9/9/19	16:05	G	Water						X	1	MW-3
AZ20557	9/10/19	09:20	G	Water		X				X	3	MW-1
AZ20558	9/10/19	10:24	G	Water						X	1	MW-25
AZ20559	9/10/19	11:34	G	Water						X	1	MW-12
AZ20560	9/10/19	11:34	G	Water						X	1	MW-12 DUP (Sample Duplicate)
AZ20561	9/10/19	12:34	G	Water						X	1	MW-21
AZ20562	9/10/19	12:45	G	Water						X	1	FB-1
AZ20563	9/10/19	13:42	G	Water						X	1	MW-11
AZ20564	9/10/19	15:20	G	Water						X	1	PZ-4
AZ20565	9/10/19	16:23	G	Water						X	1	MW-34HA

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

43599

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkif	Date/Time: 9/13/19 7:35	Water APC	Received by:	Date/Time: 9/16/19 1310	Company: TAT-PV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

21.3°C, 23.3°C, 22.3°C, 22.2°C IR8

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 2 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20566	9/10/19	09:20	G	Water		X				X	3	MW-9
AZ20567	9/10/19	10:10	G	Water						X	1	MW-8
AZ20568	9/10/19	10:10	G	Water						X	1	MW-8 DUP (Sample Duplicate)
AZ20569	9/10/19	11:05	G	Water						X	1	MW-7
AZ20570	9/10/19	11:48	G	Water						X	1	MW-6
AZ20571	9/10/19	13:05	G	Water						X	1	MW-10
AZ20572	9/10/19	14:05	G	Water						X	1	MW-14

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

43599

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Laura Midkiff	Date/Time: 9/13/19 7:35	Company: Water APC	Received by:	Date/Time: 9/16/19 1310	Company: TAL PEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 3 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20573	9/9/19	14:35	G	Water						X	3	MW-18
AZ20574	9/9/19	14:35	G	Water						X	1	MW-18 DUP (Sample Duplicate)
AZ20575	9/9/19	16:40	G	Water						X	1	MW-17
AZ20576	9/9/19	16:56	G	Water						X	1	FB-3 (Field Blank)
AZ20577	9/10/19	09:42	G	Water						X	1	MW-16
AZ20578	9/10/19	11:20	G	Water						X	1	MW-40H
AZ20579	9/10/19	12:43	G	Water						X	1	MW-15
AZ20580	9/10/19	14:45	G	Water						X	1	MW-24
AZ20581	9/10/19	16:35	G	Water						X	1	MW-23
AZ20582	9/10/19	17:00	G	Water						X	1	FB-5 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) 43599	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkif	Date/Time: 9/13/19 7:35	Water / APC	Received by:	Date/Time: 9/16/19 1310	Company: TA PSL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 4 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20707	9/11/19	10:00	G	Water		X				X	3	MW-26
AZ20708	9/11/19	10:55	G	Water						X	1	MW-27
AZ20709	9/11/19	11:50	G	Water						X	1	MW-28
AZ20710	9/11/19	13:10	G	Water						X	1	MW-29
AZ20711	9/11/19	14:05	G	Water						X	1	MW-30
AZ20712	9/11/19	17:07	G	Water						X	1	MW-35H
AZ20713	9/11/19	17:30	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) 43599	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkif	Date/Time: 9/13/19 7:35	Company: Water APC	Received by:	Date/Time: 9/16/19 1310	Company: TA-PCN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 5 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra226, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20714	9/11/19	09:20	G	Water						X	1	MW-31
AZ20715	9/11/19	10:20	G	Water						X	1	FB-4 (Field Blank)
AZ20716	9/11/19	10:35	G	Water						X	1	MW-33
AZ20717	9/11/19	10:35	G	Water						X	1	MW-33 DUP (Sample Duplicate)
AZ20718	9/11/19	11:35	G	Water						X	1	MW-32
AZ20719	9/11/19	13:27	G	Water						X	1	MW-39H
AZ20720	9/11/19	14:38	G	Water						X	1	MW-38H
AZ20721	9/11/19	16:40	G	Water						X	1	EB-2 (Equipment Blank)
AZ20722	9/11/19	17:37	G	Water						X	1	MW-5

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by: Laura Midkiff	Date/Time: 9/13/19 7:35	Water APC	Received by:	Date/Time: 9/16/19 1310	Company: TAL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 6 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene Ash Pond 1239	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
AZ20723	9/11/19	10:30	G	Water						X	1	MW-43H
AZ20724	9/11/19	10:30	G	Water						X	1	MW-43H DUP (Sample Duplicate)
AZ20725	9/11/19	12:32	G	Water						X	1	MW-42H
AZ20726	9/11/19	13:53	G	Water						X	1	MW-36H
AZ20727	9/11/19	15:11	G	Water						X	1	MW-13
AZ20728	9/11/19	15:26	G	Water						X	1	FB-2 (Field Blank)
AZ20729	9/11/19	16:12	G	Water						X	1	MW-41H
AZ20730	9/11/19	17:13	G	Water						X	1	MW-44H

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: Laura Midkif	Date/Time: 9/13/19 7:35	Water APC	Received by:	Date/Time: 9/16/19 1310	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-176443-1
SDG Number: Greene Ash Pond 1239

Login Number: 176443
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	21.3°C, 23.3°C, 22.3°C, 22.2°C IR -8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Only 1 container received for sample 19 - AZ20573 MW-18
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-176443-1
SDG Number: Greene Ash Pond 1239

Login Number: 176443
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 09/18/19 01:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-22-20
Arizona	State	AZ0710	01-12-20
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Iowa	State	367	08-01-20
Iowa	State Program	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State Program	53	06-30-20
Kentucky (WW)	State	KY98030	12-30-19
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	NELAP	LA017	12-31-19
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-19
New Jersey	NELAP	FL006	07-30-20
North Carolina (WW/SW)	State Program	314	12-31-19
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-20
Rhode Island	State	LAO00307	12-30-19
Rhode Island	State Program	LAO00307	12-30-19
South Carolina	State Program	96026	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	Federal	LE058448-0	07-31-20
USDA	Federal	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-176443-1
SDG: Greene Ash Pond 1239

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-19 *
West Virginia DEP	State Program	381	10-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	9/10/2019 8:41	Conductivity	1938.35	uS/cm
GC-AP-MW-1	9/10/2019 8:41	DO	1.16	mg/L
GC-AP-MW-1	9/10/2019 8:41	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 8:41	Oxidation Reduction Potention	35.37	mv
GC-AP-MW-1	9/10/2019 8:41	pH	5.83	pH
GC-AP-MW-1	9/10/2019 8:41	Temperature	22.12	C
GC-AP-MW-1	9/10/2019 8:41	Turbidity	13.4	NTU
GC-AP-MW-1	9/10/2019 8:46	Conductivity	1925.94	uS/cm
GC-AP-MW-1	9/10/2019 8:46	DO	0.9	mg/L
GC-AP-MW-1	9/10/2019 8:46	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 8:46	Oxidation Reduction Potention	26.92	mv
GC-AP-MW-1	9/10/2019 8:46	pH	5.89	pH
GC-AP-MW-1	9/10/2019 8:46	Temperature	21.99	C
GC-AP-MW-1	9/10/2019 8:46	Turbidity	7.52	NTU
GC-AP-MW-1	9/10/2019 8:51	Conductivity	1922.64	uS/cm
GC-AP-MW-1	9/10/2019 8:51	DO	0.78	mg/L
GC-AP-MW-1	9/10/2019 8:51	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 8:51	Oxidation Reduction Potention	19.57	mv
GC-AP-MW-1	9/10/2019 8:51	pH	5.88	pH
GC-AP-MW-1	9/10/2019 8:51	Temperature	22	C
GC-AP-MW-1	9/10/2019 8:51	Turbidity	6.38	NTU
GC-AP-MW-1	9/10/2019 8:56	Conductivity	1914.9	uS/cm
GC-AP-MW-1	9/10/2019 8:56	DO	0.69	mg/L
GC-AP-MW-1	9/10/2019 8:56	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 8:56	Oxidation Reduction Potention	14.3	mv
GC-AP-MW-1	9/10/2019 8:56	pH	5.89	pH
GC-AP-MW-1	9/10/2019 8:56	Temperature	21.95	C
GC-AP-MW-1	9/10/2019 8:56	Turbidity	3.98	NTU
GC-AP-MW-1	9/10/2019 9:01	Conductivity	1913.53	uS/cm
GC-AP-MW-1	9/10/2019 9:01	DO	0.65	mg/L
GC-AP-MW-1	9/10/2019 9:01	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 9:01	Oxidation Reduction Potention	11.09	mv
GC-AP-MW-1	9/10/2019 9:01	pH	5.88	pH
GC-AP-MW-1	9/10/2019 9:01	Temperature	21.81	C
GC-AP-MW-1	9/10/2019 9:01	Turbidity	3.48	NTU
GC-AP-MW-1	9/10/2019 9:06	Conductivity	1921.44	uS/cm
GC-AP-MW-1	9/10/2019 9:06	DO	0.61	mg/L
GC-AP-MW-1	9/10/2019 9:06	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 9:06	Oxidation Reduction Potention	8.43	mv
GC-AP-MW-1	9/10/2019 9:06	pH	5.88	pH
GC-AP-MW-1	9/10/2019 9:06	Temperature	21.82	C
GC-AP-MW-1	9/10/2019 9:06	Turbidity	2.84	NTU
GC-AP-MW-1	9/10/2019 9:11	Conductivity	1927.42	uS/cm
GC-AP-MW-1	9/10/2019 9:11	DO	0.61	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	9/10/2019 9:11	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 9:11	Oxidation Reduction Potention	7.65	mv
GC-AP-MW-1	9/10/2019 9:11	pH	5.88	pH
GC-AP-MW-1	9/10/2019 9:11	Temperature	21.83	C
GC-AP-MW-1	9/10/2019 9:11	Turbidity	2.44	NTU
GC-AP-MW-1	9/10/2019 9:16	Conductivity	1929.79	uS/cm
GC-AP-MW-1	9/10/2019 9:16	DO	0.61	mg/L
GC-AP-MW-1	9/10/2019 9:16	Depth to Water Detail	17.03	ft
GC-AP-MW-1	9/10/2019 9:16	Oxidation Reduction Potention	6.14	mv
GC-AP-MW-1	9/10/2019 9:16	pH	5.88	pH
GC-AP-MW-1	9/10/2019 9:16	Temperature	21.8	C
GC-AP-MW-1	9/10/2019 9:16	Turbidity	1.74	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	9/9/2019 14:29	Conductivity	1006.84	uS/cm
GC-AP-MW-2	9/9/2019 14:29	DO	0.54	mg/L
GC-AP-MW-2	9/9/2019 14:29	Depth to Water Detail	9.45	ft
GC-AP-MW-2	9/9/2019 14:29	Oxidation Reduction Potention	58.62	mv
GC-AP-MW-2	9/9/2019 14:29	pH	6.03	pH
GC-AP-MW-2	9/9/2019 14:29	Temperature	24.56	C
GC-AP-MW-2	9/9/2019 14:29	Turbidity	7.24	NTU
GC-AP-MW-2	9/9/2019 14:34	Conductivity	967.13	uS/cm
GC-AP-MW-2	9/9/2019 14:34	DO	0.43	mg/L
GC-AP-MW-2	9/9/2019 14:34	Depth to Water Detail	9.55	ft
GC-AP-MW-2	9/9/2019 14:34	Oxidation Reduction Potention	36.76	mv
GC-AP-MW-2	9/9/2019 14:34	pH	6.11	pH
GC-AP-MW-2	9/9/2019 14:34	Temperature	24.46	C
GC-AP-MW-2	9/9/2019 14:34	Turbidity	2.28	NTU
GC-AP-MW-2	9/9/2019 14:39	Conductivity	947.93	uS/cm
GC-AP-MW-2	9/9/2019 14:39	DO	0.38	mg/L
GC-AP-MW-2	9/9/2019 14:39	Depth to Water Detail	9.57	ft
GC-AP-MW-2	9/9/2019 14:39	Oxidation Reduction Potention	21.55	mv
GC-AP-MW-2	9/9/2019 14:39	pH	6.09	pH
GC-AP-MW-2	9/9/2019 14:39	Temperature	24.44	C
GC-AP-MW-2	9/9/2019 14:39	Turbidity	2.69	NTU
GC-AP-MW-2	9/9/2019 14:44	Conductivity	936.69	uS/cm
GC-AP-MW-2	9/9/2019 14:44	DO	0.36	mg/L
GC-AP-MW-2	9/9/2019 14:44	Depth to Water Detail	9.57	ft
GC-AP-MW-2	9/9/2019 14:44	Oxidation Reduction Potention	15.59	mv
GC-AP-MW-2	9/9/2019 14:44	pH	6.13	pH
GC-AP-MW-2	9/9/2019 14:44	Temperature	24.39	C
GC-AP-MW-2	9/9/2019 14:44	Turbidity	2.37	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	9/9/2019 15:20	Conductivity	673.98	uS/cm
GC-AP-MW-3	9/9/2019 15:20	DO	0.94	mg/L
GC-AP-MW-3	9/9/2019 15:20	Depth to Water Detail	9.56	ft
GC-AP-MW-3	9/9/2019 15:20	Oxidation Reduction Potention	-9.57	mv
GC-AP-MW-3	9/9/2019 15:20	pH	6.13	pH
GC-AP-MW-3	9/9/2019 15:20	Temperature	23.69	C
GC-AP-MW-3	9/9/2019 15:20	Turbidity	0.32	NTU
GC-AP-MW-3	9/9/2019 15:25	Conductivity	673.46	uS/cm
GC-AP-MW-3	9/9/2019 15:25	DO	0.74	mg/L
GC-AP-MW-3	9/9/2019 15:25	Depth to Water Detail	9.6	ft
GC-AP-MW-3	9/9/2019 15:25	Oxidation Reduction Potention	-12.79	mv
GC-AP-MW-3	9/9/2019 15:25	pH	5.89	pH
GC-AP-MW-3	9/9/2019 15:25	Temperature	23.65	C
GC-AP-MW-3	9/9/2019 15:25	Turbidity	0.19	NTU
GC-AP-MW-3	9/9/2019 15:30	Conductivity	672.72	uS/cm
GC-AP-MW-3	9/9/2019 15:30	DO	0.67	mg/L
GC-AP-MW-3	9/9/2019 15:30	Depth to Water Detail	9.65	ft
GC-AP-MW-3	9/9/2019 15:30	Oxidation Reduction Potention	-15.53	mv
GC-AP-MW-3	9/9/2019 15:30	pH	6.13	pH
GC-AP-MW-3	9/9/2019 15:30	Temperature	23.63	C
GC-AP-MW-3	9/9/2019 15:30	Turbidity	0.19	NTU
GC-AP-MW-3	9/9/2019 15:35	Conductivity	674.05	uS/cm
GC-AP-MW-3	9/9/2019 15:35	DO	0.64	mg/L
GC-AP-MW-3	9/9/2019 15:35	Depth to Water Detail	9.69	ft
GC-AP-MW-3	9/9/2019 15:35	Oxidation Reduction Potention	-19.5	mv
GC-AP-MW-3	9/9/2019 15:35	pH	6.34	pH
GC-AP-MW-3	9/9/2019 15:35	Temperature	23.59	C
GC-AP-MW-3	9/9/2019 15:35	Turbidity	0.21	NTU
GC-AP-MW-3	9/9/2019 15:40	Conductivity	672.2	uS/cm
GC-AP-MW-3	9/9/2019 15:40	DO	0.62	mg/L
GC-AP-MW-3	9/9/2019 15:40	Depth to Water Detail	9.71	ft
GC-AP-MW-3	9/9/2019 15:40	Oxidation Reduction Potention	-28.06	mv
GC-AP-MW-3	9/9/2019 15:40	pH	6.31	pH
GC-AP-MW-3	9/9/2019 15:40	Temperature	23.45	C
GC-AP-MW-3	9/9/2019 15:40	Turbidity	0.22	NTU
GC-AP-MW-3	9/9/2019 15:45	Conductivity	667.41	uS/cm
GC-AP-MW-3	9/9/2019 15:45	DO	0.61	mg/L
GC-AP-MW-3	9/9/2019 15:45	Depth to Water Detail	9.74	ft
GC-AP-MW-3	9/9/2019 15:45	Oxidation Reduction Potention	-34.34	mv
GC-AP-MW-3	9/9/2019 15:45	pH	6.56	pH
GC-AP-MW-3	9/9/2019 15:45	Temperature	23.36	C
GC-AP-MW-3	9/9/2019 15:45	Turbidity	0.26	NTU
GC-AP-MW-3	9/9/2019 15:50	Conductivity	667.34	uS/cm
GC-AP-MW-3	9/9/2019 15:50	DO	0.59	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	9/9/2019 15:50	Depth to Water Detail	9.77	ft
GC-AP-MW-3	9/9/2019 15:50	Oxidation Reduction Potention	-37.36	mv
GC-AP-MW-3	9/9/2019 15:50	pH	6.14	pH
GC-AP-MW-3	9/9/2019 15:50	Temperature	23.4	C
GC-AP-MW-3	9/9/2019 15:50	Turbidity	0.22	NTU
GC-AP-MW-3	9/9/2019 15:55	Conductivity	660.6	uS/cm
GC-AP-MW-3	9/9/2019 15:55	DO	0.59	mg/L
GC-AP-MW-3	9/9/2019 15:55	Depth to Water Detail	9.8	ft
GC-AP-MW-3	9/9/2019 15:55	Oxidation Reduction Potention	-38.46	mv
GC-AP-MW-3	9/9/2019 15:55	pH	6.18	pH
GC-AP-MW-3	9/9/2019 15:55	Temperature	23.28	C
GC-AP-MW-3	9/9/2019 15:55	Turbidity	0.37	NTU
GC-AP-MW-3	9/9/2019 16:00	Conductivity	661.95	uS/cm
GC-AP-MW-3	9/9/2019 16:00	DO	0.58	mg/L
GC-AP-MW-3	9/9/2019 16:00	Depth to Water Detail	9.84	ft
GC-AP-MW-3	9/9/2019 16:00	Oxidation Reduction Potention	-39.16	mv
GC-AP-MW-3	9/9/2019 16:00	pH	6.22	pH
GC-AP-MW-3	9/9/2019 16:00	Temperature	23.31	C
GC-AP-MW-3	9/9/2019 16:00	Turbidity	0.95	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	9/10/2019 13:11	Conductivity	347.68	uS/cm
GC-AP-MW-11	9/10/2019 13:11	DO	1.19	mg/L
GC-AP-MW-11	9/10/2019 13:11	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:11	Oxidation Reduction Potention	63.81	mv
GC-AP-MW-11	9/10/2019 13:11	pH	6.56	pH
GC-AP-MW-11	9/10/2019 13:11	Temperature	22.69	C
GC-AP-MW-11	9/10/2019 13:11	Turbidity	0.18	NTU
GC-AP-MW-11	9/10/2019 13:16	Conductivity	348.18	uS/cm
GC-AP-MW-11	9/10/2019 13:16	DO	0.99	mg/L
GC-AP-MW-11	9/10/2019 13:16	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:16	Oxidation Reduction Potention	83.26	mv
GC-AP-MW-11	9/10/2019 13:16	pH	5.92	pH
GC-AP-MW-11	9/10/2019 13:16	Temperature	22.59	C
GC-AP-MW-11	9/10/2019 13:16	Turbidity	0.16	NTU
GC-AP-MW-11	9/10/2019 13:21	Conductivity	347.26	uS/cm
GC-AP-MW-11	9/10/2019 13:21	DO	0.91	mg/L
GC-AP-MW-11	9/10/2019 13:21	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:21	Oxidation Reduction Potention	78.58	mv
GC-AP-MW-11	9/10/2019 13:21	pH	5.97	pH
GC-AP-MW-11	9/10/2019 13:21	Temperature	22.76	C
GC-AP-MW-11	9/10/2019 13:21	Turbidity	0.47	NTU
GC-AP-MW-11	9/10/2019 13:26	Conductivity	347.72	uS/cm
GC-AP-MW-11	9/10/2019 13:26	DO	0.86	mg/L
GC-AP-MW-11	9/10/2019 13:26	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:26	Oxidation Reduction Potention	75.21	mv
GC-AP-MW-11	9/10/2019 13:26	pH	6.05	pH
GC-AP-MW-11	9/10/2019 13:26	Temperature	22.68	C
GC-AP-MW-11	9/10/2019 13:26	Turbidity	0.1	NTU
GC-AP-MW-11	9/10/2019 13:31	Conductivity	346.91	uS/cm
GC-AP-MW-11	9/10/2019 13:31	DO	0.82	mg/L
GC-AP-MW-11	9/10/2019 13:31	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:31	Oxidation Reduction Potention	71.3	mv
GC-AP-MW-11	9/10/2019 13:31	pH	6.06	pH
GC-AP-MW-11	9/10/2019 13:31	Temperature	22.79	C
GC-AP-MW-11	9/10/2019 13:31	Turbidity	0.11	NTU
GC-AP-MW-11	9/10/2019 13:36	Conductivity	348.12	uS/cm
GC-AP-MW-11	9/10/2019 13:36	DO	0.8	mg/L
GC-AP-MW-11	9/10/2019 13:36	Depth to Water Detail	18.94	ft
GC-AP-MW-11	9/10/2019 13:36	Oxidation Reduction Potention	66.95	mv
GC-AP-MW-11	9/10/2019 13:36	pH	5.91	pH
GC-AP-MW-11	9/10/2019 13:36	Temperature	22.75	C
GC-AP-MW-11	9/10/2019 13:36	Turbidity	0.21	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	9/10/2019 12:24	Conductivity	516.53	uS/cm
GC-AP-MW-15	9/10/2019 12:24	DO	1.05	mg/L
GC-AP-MW-15	9/10/2019 12:24	Depth to Water Detail	17.65	ft
GC-AP-MW-15	9/10/2019 12:24	Oxidation Reduction Potention	56.42	mv
GC-AP-MW-15	9/10/2019 12:24	pH	5.93	pH
GC-AP-MW-15	9/10/2019 12:24	Temperature	19.9	C
GC-AP-MW-15	9/10/2019 12:24	Turbidity	0.02	NTU
GC-AP-MW-15	9/10/2019 12:29	Conductivity	519	uS/cm
GC-AP-MW-15	9/10/2019 12:29	DO	0.92	mg/L
GC-AP-MW-15	9/10/2019 12:29	Depth to Water Detail	17.65	ft
GC-AP-MW-15	9/10/2019 12:29	Oxidation Reduction Potention	60.35	mv
GC-AP-MW-15	9/10/2019 12:29	pH	5.82	pH
GC-AP-MW-15	9/10/2019 12:29	Temperature	19.75	C
GC-AP-MW-15	9/10/2019 12:29	Turbidity	0.24	NTU
GC-AP-MW-15	9/10/2019 12:34	Conductivity	522.61	uS/cm
GC-AP-MW-15	9/10/2019 12:34	DO	0.86	mg/L
GC-AP-MW-15	9/10/2019 12:34	Depth to Water Detail	17.65	ft
GC-AP-MW-15	9/10/2019 12:34	Oxidation Reduction Potention	59.94	mv
GC-AP-MW-15	9/10/2019 12:34	pH	5.81	pH
GC-AP-MW-15	9/10/2019 12:34	Temperature	19.65	C
GC-AP-MW-15	9/10/2019 12:34	Turbidity	0.01	NTU
GC-AP-MW-15	9/10/2019 12:39	Conductivity	527.45	uS/cm
GC-AP-MW-15	9/10/2019 12:39	DO	0.84	mg/L
GC-AP-MW-15	9/10/2019 12:39	Depth to Water Detail	17.65	ft
GC-AP-MW-15	9/10/2019 12:39	Oxidation Reduction Potention	58.21	mv
GC-AP-MW-15	9/10/2019 12:39	pH	5.82	pH
GC-AP-MW-15	9/10/2019 12:39	Temperature	19.78	C
GC-AP-MW-15	9/10/2019 12:39	Turbidity	0.04	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	9/10/2019 11:09	Conductivity	380.29	uS/cm
GC-AP-MW-12	9/10/2019 11:09	DO	1.11	mg/L
GC-AP-MW-12	9/10/2019 11:09	Depth to Water Detail	22.04	ft
GC-AP-MW-12	9/10/2019 11:09	Oxidation Reduction Potention	101.01	mv
GC-AP-MW-12	9/10/2019 11:09	pH	6.86	pH
GC-AP-MW-12	9/10/2019 11:09	Temperature	21.19	C
GC-AP-MW-12	9/10/2019 11:09	Turbidity	0.22	NTU
GC-AP-MW-12	9/10/2019 11:14	Conductivity	380.26	uS/cm
GC-AP-MW-12	9/10/2019 11:14	DO	0.94	mg/L
GC-AP-MW-12	9/10/2019 11:14	Depth to Water Detail	22.04	ft
GC-AP-MW-12	9/10/2019 11:14	Oxidation Reduction Potention	112.79	mv
GC-AP-MW-12	9/10/2019 11:14	pH	6.59	pH
GC-AP-MW-12	9/10/2019 11:14	Temperature	21.13	C
GC-AP-MW-12	9/10/2019 11:14	Turbidity	0.23	NTU
GC-AP-MW-12	9/10/2019 11:19	Conductivity	380.25	uS/cm
GC-AP-MW-12	9/10/2019 11:19	DO	0.87	mg/L
GC-AP-MW-12	9/10/2019 11:19	Depth to Water Detail	22.04	ft
GC-AP-MW-12	9/10/2019 11:19	Oxidation Reduction Potention	114.99	mv
GC-AP-MW-12	9/10/2019 11:19	pH	6.58	pH
GC-AP-MW-12	9/10/2019 11:19	Temperature	21.18	C
GC-AP-MW-12	9/10/2019 11:19	Turbidity	0.13	NTU
GC-AP-MW-12	9/10/2019 11:24	Conductivity	380.25	uS/cm
GC-AP-MW-12	9/10/2019 11:24	DO	0.81	mg/L
GC-AP-MW-12	9/10/2019 11:24	Depth to Water Detail	22.04	ft
GC-AP-MW-12	9/10/2019 11:24	Oxidation Reduction Potention	113.98	mv
GC-AP-MW-12	9/10/2019 11:24	pH	6.63	pH
GC-AP-MW-12	9/10/2019 11:24	Temperature	21.09	C
GC-AP-MW-12	9/10/2019 11:24	Turbidity	0.12	NTU
GC-AP-MW-12	9/10/2019 11:29	Conductivity	379.65	uS/cm
GC-AP-MW-12	9/10/2019 11:29	DO	0.8	mg/L
GC-AP-MW-12	9/10/2019 11:29	Depth to Water Detail	22.04	ft
GC-AP-MW-12	9/10/2019 11:29	Oxidation Reduction Potention	107.36	mv
GC-AP-MW-12	9/10/2019 11:29	pH	6.69	pH
GC-AP-MW-12	9/10/2019 11:29	Temperature	21.16	C
GC-AP-MW-12	9/10/2019 11:29	Turbidity	0.16	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	9/10/2019 9:04	Conductivity	703.19	uS/cm
GC-AP-MW-16	9/10/2019 9:04	DO	0.27	mg/L
GC-AP-MW-16	9/10/2019 9:04	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:04	Oxidation Reduction Potention	-13.2	mv
GC-AP-MW-16	9/10/2019 9:04	pH	6.3	pH
GC-AP-MW-16	9/10/2019 9:04	Temperature	20.48	C
GC-AP-MW-16	9/10/2019 9:04	Turbidity	86.6	NTU
GC-AP-MW-16	9/10/2019 9:09	Conductivity	703.94	uS/cm
GC-AP-MW-16	9/10/2019 9:09	DO	0.27	mg/L
GC-AP-MW-16	9/10/2019 9:09	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:09	Oxidation Reduction Potention	-14.42	mv
GC-AP-MW-16	9/10/2019 9:09	pH	6.32	pH
GC-AP-MW-16	9/10/2019 9:09	Temperature	20.44	C
GC-AP-MW-16	9/10/2019 9:09	Turbidity	39.1	NTU
GC-AP-MW-16	9/10/2019 9:14	Conductivity	710.88	uS/cm
GC-AP-MW-16	9/10/2019 9:14	DO	0.23	mg/L
GC-AP-MW-16	9/10/2019 9:14	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:14	Oxidation Reduction Potention	-16.64	mv
GC-AP-MW-16	9/10/2019 9:14	pH	6.33	pH
GC-AP-MW-16	9/10/2019 9:14	Temperature	20.44	C
GC-AP-MW-16	9/10/2019 9:14	Turbidity	26.6	NTU
GC-AP-MW-16	9/10/2019 9:19	Conductivity	717.55	uS/cm
GC-AP-MW-16	9/10/2019 9:19	DO	0.2	mg/L
GC-AP-MW-16	9/10/2019 9:19	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:19	Oxidation Reduction Potention	-18.94	mv
GC-AP-MW-16	9/10/2019 9:19	pH	6.34	pH
GC-AP-MW-16	9/10/2019 9:19	Temperature	20.42	C
GC-AP-MW-16	9/10/2019 9:19	Turbidity	15.2	NTU
GC-AP-MW-16	9/10/2019 9:24	Conductivity	721.46	uS/cm
GC-AP-MW-16	9/10/2019 9:24	DO	0.19	mg/L
GC-AP-MW-16	9/10/2019 9:24	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:24	Oxidation Reduction Potention	-19.16	mv
GC-AP-MW-16	9/10/2019 9:24	pH	6.32	pH
GC-AP-MW-16	9/10/2019 9:24	Temperature	20.46	C
GC-AP-MW-16	9/10/2019 9:24	Turbidity	10.24	NTU
GC-AP-MW-16	9/10/2019 9:29	Conductivity	727.15	uS/cm
GC-AP-MW-16	9/10/2019 9:29	DO	0.19	mg/L
GC-AP-MW-16	9/10/2019 9:29	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:29	Oxidation Reduction Potention	-20.39	mv
GC-AP-MW-16	9/10/2019 9:29	pH	6.32	pH
GC-AP-MW-16	9/10/2019 9:29	Temperature	20.45	C
GC-AP-MW-16	9/10/2019 9:29	Turbidity	7.8	NTU
GC-AP-MW-16	9/10/2019 9:34	Conductivity	726.49	uS/cm
GC-AP-MW-16	9/10/2019 9:34	DO	0.18	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	9/10/2019 9:34	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:34	Oxidation Reduction Potention	-22.1	mv
GC-AP-MW-16	9/10/2019 9:34	pH	6.34	pH
GC-AP-MW-16	9/10/2019 9:34	Temperature	20.4	C
GC-AP-MW-16	9/10/2019 9:34	Turbidity	6.55	NTU
GC-AP-MW-16	9/10/2019 9:39	Conductivity	728.39	uS/cm
GC-AP-MW-16	9/10/2019 9:39	DO	0.18	mg/L
GC-AP-MW-16	9/10/2019 9:39	Depth to Water Detail	34.31	ft
GC-AP-MW-16	9/10/2019 9:39	Oxidation Reduction Potention	-23.74	mv
GC-AP-MW-16	9/10/2019 9:39	pH	6.35	pH
GC-AP-MW-16	9/10/2019 9:39	Temperature	20.34	C
GC-AP-MW-16	9/10/2019 9:39	Turbidity	4.96	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	9/11/2019 14:46	Conductivity	481.93	uS/cm
GC-AP-MW-13	9/11/2019 14:46	DO	0.94	mg/L
GC-AP-MW-13	9/11/2019 14:46	Depth to Water Detail	23.49	ft
GC-AP-MW-13	9/11/2019 14:46	Oxidation Reduction Potention	55.47	mv
GC-AP-MW-13	9/11/2019 14:46	pH	6.53	pH
GC-AP-MW-13	9/11/2019 14:46	Temperature	25.56	C
GC-AP-MW-13	9/11/2019 14:46	Turbidity	14.5	NTU
GC-AP-MW-13	9/11/2019 14:51	Conductivity	518.29	uS/cm
GC-AP-MW-13	9/11/2019 14:51	DO	0.8	mg/L
GC-AP-MW-13	9/11/2019 14:51	Depth to Water Detail	23.51	ft
GC-AP-MW-13	9/11/2019 14:51	Oxidation Reduction Potention	70.43	mv
GC-AP-MW-13	9/11/2019 14:51	pH	6.25	pH
GC-AP-MW-13	9/11/2019 14:51	Temperature	25.46	C
GC-AP-MW-13	9/11/2019 14:51	Turbidity	0.44	NTU
GC-AP-MW-13	9/11/2019 14:56	Conductivity	500.09	uS/cm
GC-AP-MW-13	9/11/2019 14:56	DO	0.73	mg/L
GC-AP-MW-13	9/11/2019 14:56	Depth to Water Detail	23.51	ft
GC-AP-MW-13	9/11/2019 14:56	Oxidation Reduction Potention	72.62	mv
GC-AP-MW-13	9/11/2019 14:56	pH	6.21	pH
GC-AP-MW-13	9/11/2019 14:56	Temperature	25.49	C
GC-AP-MW-13	9/11/2019 14:56	Turbidity	0.31	NTU
GC-AP-MW-13	9/11/2019 15:01	Conductivity	514.08	uS/cm
GC-AP-MW-13	9/11/2019 15:01	DO	0.72	mg/L
GC-AP-MW-13	9/11/2019 15:01	Depth to Water Detail	23.51	ft
GC-AP-MW-13	9/11/2019 15:01	Oxidation Reduction Potention	74.45	mv
GC-AP-MW-13	9/11/2019 15:01	pH	6.21	pH
GC-AP-MW-13	9/11/2019 15:01	Temperature	25.5	C
GC-AP-MW-13	9/11/2019 15:01	Turbidity	0.48	NTU
GC-AP-MW-13	9/11/2019 15:06	Conductivity	514.88	uS/cm
GC-AP-MW-13	9/11/2019 15:06	DO	0.69	mg/L
GC-AP-MW-13	9/11/2019 15:06	Depth to Water Detail	23.51	ft
GC-AP-MW-13	9/11/2019 15:06	Oxidation Reduction Potention	74.29	mv
GC-AP-MW-13	9/11/2019 15:06	pH	6.22	pH
GC-AP-MW-13	9/11/2019 15:06	Temperature	25.49	C
GC-AP-MW-13	9/11/2019 15:06	Turbidity	0.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	9/10/2019 12:14	Conductivity	350.4	uS/cm
GC-AP-MW-21	9/10/2019 12:14	DO	0.26	mg/L
GC-AP-MW-21	9/10/2019 12:14	Depth to Water Detail	24.06	ft
GC-AP-MW-21	9/10/2019 12:14	Oxidation Reduction Potention	87.99	mv
GC-AP-MW-21	9/10/2019 12:14	pH	6.75	pH
GC-AP-MW-21	9/10/2019 12:14	Temperature	24.06	C
GC-AP-MW-21	9/10/2019 12:14	Turbidity	0.41	NTU
GC-AP-MW-21	9/10/2019 12:19	Conductivity	349.01	uS/cm
GC-AP-MW-21	9/10/2019 12:19	DO	0.21	mg/L
GC-AP-MW-21	9/10/2019 12:19	Depth to Water Detail	24.06	ft
GC-AP-MW-21	9/10/2019 12:19	Oxidation Reduction Potention	95.02	mv
GC-AP-MW-21	9/10/2019 12:19	pH	6.46	pH
GC-AP-MW-21	9/10/2019 12:19	Temperature	24.1	C
GC-AP-MW-21	9/10/2019 12:19	Turbidity	0.74	NTU
GC-AP-MW-21	9/10/2019 12:24	Conductivity	348.16	uS/cm
GC-AP-MW-21	9/10/2019 12:24	DO	0.19	mg/L
GC-AP-MW-21	9/10/2019 12:24	Depth to Water Detail	24.06	ft
GC-AP-MW-21	9/10/2019 12:24	Oxidation Reduction Potention	91.22	mv
GC-AP-MW-21	9/10/2019 12:24	pH	6.52	pH
GC-AP-MW-21	9/10/2019 12:24	Temperature	24.08	C
GC-AP-MW-21	9/10/2019 12:24	Turbidity	0.31	NTU
GC-AP-MW-21	9/10/2019 12:29	Conductivity	348.02	uS/cm
GC-AP-MW-21	9/10/2019 12:29	DO	0.19	mg/L
GC-AP-MW-21	9/10/2019 12:29	Depth to Water Detail	24.06	ft
GC-AP-MW-21	9/10/2019 12:29	Oxidation Reduction Potention	82.77	mv
GC-AP-MW-21	9/10/2019 12:29	pH	6.58	pH
GC-AP-MW-21	9/10/2019 12:29	Temperature	24.07	C
GC-AP-MW-21	9/10/2019 12:29	Turbidity	0.26	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	9/9/2019 15:46	Conductivity	0	uS/cm
GC-AP-MW-17	9/9/2019 15:46	DO	7.8	mg/L
GC-AP-MW-17	9/9/2019 15:46	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 15:46	Oxidation Reduction Potention	192.54	mv
GC-AP-MW-17	9/9/2019 15:46	pH	5.36	pH
GC-AP-MW-17	9/9/2019 15:46	Temperature	26.67	C
GC-AP-MW-17	9/9/2019 15:46	Turbidity	106.9	NTU
GC-AP-MW-17	9/9/2019 15:51	Conductivity	0	uS/cm
GC-AP-MW-17	9/9/2019 15:51	DO	7.92	mg/L
GC-AP-MW-17	9/9/2019 15:51	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 15:51	Oxidation Reduction Potention	202.52	mv
GC-AP-MW-17	9/9/2019 15:51	pH	5.48	pH
GC-AP-MW-17	9/9/2019 15:51	Temperature	25.19	C
GC-AP-MW-17	9/9/2019 15:51	Turbidity	47.5	NTU
GC-AP-MW-17	9/9/2019 15:56	Conductivity	704.51	uS/cm
GC-AP-MW-17	9/9/2019 15:56	DO	1.63	mg/L
GC-AP-MW-17	9/9/2019 15:56	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 15:56	Oxidation Reduction Potention	211.28	mv
GC-AP-MW-17	9/9/2019 15:56	pH	5.51	pH
GC-AP-MW-17	9/9/2019 15:56	Temperature	21.27	C
GC-AP-MW-17	9/9/2019 15:56	Turbidity	41.5	NTU
GC-AP-MW-17	9/9/2019 16:01	Conductivity	706.81	uS/cm
GC-AP-MW-17	9/9/2019 16:01	DO	0.26	mg/L
GC-AP-MW-17	9/9/2019 16:01	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:01	Oxidation Reduction Potention	196.16	mv
GC-AP-MW-17	9/9/2019 16:01	pH	5.59	pH
GC-AP-MW-17	9/9/2019 16:01	Temperature	21.13	C
GC-AP-MW-17	9/9/2019 16:01	Turbidity	19	NTU
GC-AP-MW-17	9/9/2019 16:06	Conductivity	712.83	uS/cm
GC-AP-MW-17	9/9/2019 16:06	DO	0.25	mg/L
GC-AP-MW-17	9/9/2019 16:06	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:06	Oxidation Reduction Potention	44.08	mv
GC-AP-MW-17	9/9/2019 16:06	pH	5.65	pH
GC-AP-MW-17	9/9/2019 16:06	Temperature	21.14	C
GC-AP-MW-17	9/9/2019 16:06	Turbidity	13.8	NTU
GC-AP-MW-17	9/9/2019 16:11	Conductivity	717.77	uS/cm
GC-AP-MW-17	9/9/2019 16:11	DO	0.23	mg/L
GC-AP-MW-17	9/9/2019 16:11	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:11	Oxidation Reduction Potention	18.47	mv
GC-AP-MW-17	9/9/2019 16:11	pH	5.7	pH
GC-AP-MW-17	9/9/2019 16:11	Temperature	21.1	C
GC-AP-MW-17	9/9/2019 16:11	Turbidity	9.96	NTU
GC-AP-MW-17	9/9/2019 16:16	Conductivity	724.33	uS/cm
GC-AP-MW-17	9/9/2019 16:16	DO	0.22	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	9/9/2019 16:16	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:16	Oxidation Reduction Potention	6.34	mv
GC-AP-MW-17	9/9/2019 16:16	pH	5.74	pH
GC-AP-MW-17	9/9/2019 16:16	Temperature	21.12	C
GC-AP-MW-17	9/9/2019 16:16	Turbidity	12.7	NTU
GC-AP-MW-17	9/9/2019 16:21	Conductivity	739.81	uS/cm
GC-AP-MW-17	9/9/2019 16:21	DO	0.2	mg/L
GC-AP-MW-17	9/9/2019 16:21	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:21	Oxidation Reduction Potention	-0.93	mv
GC-AP-MW-17	9/9/2019 16:21	pH	5.77	pH
GC-AP-MW-17	9/9/2019 16:21	Temperature	21.11	C
GC-AP-MW-17	9/9/2019 16:21	Turbidity	7.84	NTU
GC-AP-MW-17	9/9/2019 16:26	Conductivity	728.2	uS/cm
GC-AP-MW-17	9/9/2019 16:26	DO	0.2	mg/L
GC-AP-MW-17	9/9/2019 16:26	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:26	Oxidation Reduction Potention	1.98	mv
GC-AP-MW-17	9/9/2019 16:26	pH	5.78	pH
GC-AP-MW-17	9/9/2019 16:26	Temperature	21.12	C
GC-AP-MW-17	9/9/2019 16:26	Turbidity	5.9	NTU
GC-AP-MW-17	9/9/2019 16:31	Conductivity	719.08	uS/cm
GC-AP-MW-17	9/9/2019 16:31	DO	0.2	mg/L
GC-AP-MW-17	9/9/2019 16:31	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:31	Oxidation Reduction Potention	0.59	mv
GC-AP-MW-17	9/9/2019 16:31	pH	5.82	pH
GC-AP-MW-17	9/9/2019 16:31	Temperature	21.01	C
GC-AP-MW-17	9/9/2019 16:31	Turbidity	6.09	NTU
GC-AP-MW-17	9/9/2019 16:36	Conductivity	724.39	uS/cm
GC-AP-MW-17	9/9/2019 16:36	DO	0.21	mg/L
GC-AP-MW-17	9/9/2019 16:36	Depth to Water Detail	30.88	ft
GC-AP-MW-17	9/9/2019 16:36	Oxidation Reduction Potention	0.18	mv
GC-AP-MW-17	9/9/2019 16:36	pH	5.84	pH
GC-AP-MW-17	9/9/2019 16:36	Temperature	21.04	C
GC-AP-MW-17	9/9/2019 16:36	Turbidity	4.9	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	9/10/2019 10:06	Conductivity	284.49	uS/cm
GC-AP-MW-25	9/10/2019 10:06	DO	0.48	mg/L
GC-AP-MW-25	9/10/2019 10:06	Depth to Water Detail	9.86	ft
GC-AP-MW-25	9/10/2019 10:06	Oxidation Reduction Potention	77.15	mv
GC-AP-MW-25	9/10/2019 10:06	pH	5.02	pH
GC-AP-MW-25	9/10/2019 10:06	Temperature	21.26	C
GC-AP-MW-25	9/10/2019 10:06	Turbidity	0.55	NTU
GC-AP-MW-25	9/10/2019 10:11	Conductivity	286.75	uS/cm
GC-AP-MW-25	9/10/2019 10:11	DO	0.43	mg/L
GC-AP-MW-25	9/10/2019 10:11	Depth to Water Detail	9.96	ft
GC-AP-MW-25	9/10/2019 10:11	Oxidation Reduction Potention	81.14	mv
GC-AP-MW-25	9/10/2019 10:11	pH	5.02	pH
GC-AP-MW-25	9/10/2019 10:11	Temperature	21.24	C
GC-AP-MW-25	9/10/2019 10:11	Turbidity	0.35	NTU
GC-AP-MW-25	9/10/2019 10:16	Conductivity	288.74	uS/cm
GC-AP-MW-25	9/10/2019 10:16	DO	0.41	mg/L
GC-AP-MW-25	9/10/2019 10:16	Depth to Water Detail	10.02	ft
GC-AP-MW-25	9/10/2019 10:16	Oxidation Reduction Potention	81.33	mv
GC-AP-MW-25	9/10/2019 10:16	pH	5.1	pH
GC-AP-MW-25	9/10/2019 10:16	Temperature	21.19	C
GC-AP-MW-25	9/10/2019 10:16	Turbidity	0.65	NTU
GC-AP-MW-25	9/10/2019 10:21	Conductivity	289.51	uS/cm
GC-AP-MW-25	9/10/2019 10:21	DO	0.41	mg/L
GC-AP-MW-25	9/10/2019 10:21	Depth to Water Detail	10.02	ft
GC-AP-MW-25	9/10/2019 10:21	Oxidation Reduction Potention	84.18	mv
GC-AP-MW-25	9/10/2019 10:21	pH	5.15	pH
GC-AP-MW-25	9/10/2019 10:21	Temperature	21.23	C
GC-AP-MW-25	9/10/2019 10:21	Turbidity	0.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	9/9/2019 14:11	Conductivity	433.25	uS/cm
GC-AP-MW-18	9/9/2019 14:11	DO	0.55	mg/L
GC-AP-MW-18	9/9/2019 14:11	Depth to Water Detail	29.96	ft
GC-AP-MW-18	9/9/2019 14:11	Oxidation Reduction Potention	39.45	mv
GC-AP-MW-18	9/9/2019 14:11	pH	6.23	pH
GC-AP-MW-18	9/9/2019 14:11	Temperature	20.95	C
GC-AP-MW-18	9/9/2019 14:11	Turbidity	18.4	NTU
GC-AP-MW-18	9/9/2019 14:16	Conductivity	435.01	uS/cm
GC-AP-MW-18	9/9/2019 14:16	DO	0.46	mg/L
GC-AP-MW-18	9/9/2019 14:16	Depth to Water Detail	30.01	ft
GC-AP-MW-18	9/9/2019 14:16	Oxidation Reduction Potention	33.49	mv
GC-AP-MW-18	9/9/2019 14:16	pH	6.26	pH
GC-AP-MW-18	9/9/2019 14:16	Temperature	20.92	C
GC-AP-MW-18	9/9/2019 14:16	Turbidity	10.95	NTU
GC-AP-MW-18	9/9/2019 14:21	Conductivity	462.72	uS/cm
GC-AP-MW-18	9/9/2019 14:21	DO	0.37	mg/L
GC-AP-MW-18	9/9/2019 14:21	Depth to Water Detail	30.01	ft
GC-AP-MW-18	9/9/2019 14:21	Oxidation Reduction Potention	28.75	mv
GC-AP-MW-18	9/9/2019 14:21	pH	6.27	pH
GC-AP-MW-18	9/9/2019 14:21	Temperature	20.99	C
GC-AP-MW-18	9/9/2019 14:21	Turbidity	8.57	NTU
GC-AP-MW-18	9/9/2019 14:26	Conductivity	459.75	uS/cm
GC-AP-MW-18	9/9/2019 14:26	DO	0.31	mg/L
GC-AP-MW-18	9/9/2019 14:26	Depth to Water Detail	30.01	ft
GC-AP-MW-18	9/9/2019 14:26	Oxidation Reduction Potention	24.75	mv
GC-AP-MW-18	9/9/2019 14:26	pH	6.26	pH
GC-AP-MW-18	9/9/2019 14:26	Temperature	20.88	C
GC-AP-MW-18	9/9/2019 14:26	Turbidity	4.9	NTU
GC-AP-MW-18	9/9/2019 14:31	Conductivity	447.88	uS/cm
GC-AP-MW-18	9/9/2019 14:31	DO	0.28	mg/L
GC-AP-MW-18	9/9/2019 14:31	Depth to Water Detail	30.01	ft
GC-AP-MW-18	9/9/2019 14:31	Oxidation Reduction Potention	18.78	mv
GC-AP-MW-18	9/9/2019 14:31	pH	6.28	pH
GC-AP-MW-18	9/9/2019 14:31	Temperature	20.84	C
GC-AP-MW-18	9/9/2019 14:31	Turbidity	4.46	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	9/10/2019 16:04	Conductivity	178.5	uS/cm
GC-AP-MW-34HA	9/10/2019 16:04	DO	1.55	mg/L
GC-AP-MW-34HA	9/10/2019 16:04	Depth to Water Detail	22.37	ft
GC-AP-MW-34HA	9/10/2019 16:04	Oxidation Reduction Potention	72.56	mv
GC-AP-MW-34HA	9/10/2019 16:04	pH	5.02	pH
GC-AP-MW-34HA	9/10/2019 16:04	Temperature	23.3	C
GC-AP-MW-34HA	9/10/2019 16:04	Turbidity	2.9	NTU
GC-AP-MW-34HA	9/10/2019 16:09	Conductivity	179.72	uS/cm
GC-AP-MW-34HA	9/10/2019 16:09	DO	1.48	mg/L
GC-AP-MW-34HA	9/10/2019 16:09	Depth to Water Detail	22.38	ft
GC-AP-MW-34HA	9/10/2019 16:09	Oxidation Reduction Potention	88.44	mv
GC-AP-MW-34HA	9/10/2019 16:09	pH	4.81	pH
GC-AP-MW-34HA	9/10/2019 16:09	Temperature	23.27	C
GC-AP-MW-34HA	9/10/2019 16:09	Turbidity	4.57	NTU
GC-AP-MW-34HA	9/10/2019 16:14	Conductivity	179.6	uS/cm
GC-AP-MW-34HA	9/10/2019 16:14	DO	1.39	mg/L
GC-AP-MW-34HA	9/10/2019 16:14	Depth to Water Detail	22.38	ft
GC-AP-MW-34HA	9/10/2019 16:14	Oxidation Reduction Potention	90.15	mv
GC-AP-MW-34HA	9/10/2019 16:14	pH	4.84	pH
GC-AP-MW-34HA	9/10/2019 16:14	Temperature	23.3	C
GC-AP-MW-34HA	9/10/2019 16:14	Turbidity	3.31	NTU
GC-AP-MW-34HA	9/10/2019 16:19	Conductivity	178.76	uS/cm
GC-AP-MW-34HA	9/10/2019 16:19	DO	1.36	mg/L
GC-AP-MW-34HA	9/10/2019 16:19	Depth to Water Detail	22.38	ft
GC-AP-MW-34HA	9/10/2019 16:19	Oxidation Reduction Potention	93.88	mv
GC-AP-MW-34HA	9/10/2019 16:19	pH	4.87	pH
GC-AP-MW-34HA	9/10/2019 16:19	Temperature	23.29	C
GC-AP-MW-34HA	9/10/2019 16:19	Turbidity	1.16	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	9/10/2019 15:27	Conductivity	169.32	uS/cm
GC-AP-MW-23	9/10/2019 15:27	DO	5.26	mg/L
GC-AP-MW-23	9/10/2019 15:27	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:27	Oxidation Reduction Potention	110.94	mv
GC-AP-MW-23	9/10/2019 15:27	pH	5.76	pH
GC-AP-MW-23	9/10/2019 15:27	Temperature	23	C
GC-AP-MW-23	9/10/2019 15:27	Turbidity	1.41	NTU
GC-AP-MW-23	9/10/2019 15:32	Conductivity	159.08	uS/cm
GC-AP-MW-23	9/10/2019 15:32	DO	5.44	mg/L
GC-AP-MW-23	9/10/2019 15:32	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:32	Oxidation Reduction Potention	113.85	mv
GC-AP-MW-23	9/10/2019 15:32	pH	5.77	pH
GC-AP-MW-23	9/10/2019 15:32	Temperature	22.95	C
GC-AP-MW-23	9/10/2019 15:32	Turbidity	1.52	NTU
GC-AP-MW-23	9/10/2019 15:37	Conductivity	151.59	uS/cm
GC-AP-MW-23	9/10/2019 15:37	DO	5.52	mg/L
GC-AP-MW-23	9/10/2019 15:37	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:37	Oxidation Reduction Potention	116.78	mv
GC-AP-MW-23	9/10/2019 15:37	pH	5.76	pH
GC-AP-MW-23	9/10/2019 15:37	Temperature	22.9	C
GC-AP-MW-23	9/10/2019 15:37	Turbidity	0.8	NTU
GC-AP-MW-23	9/10/2019 15:42	Conductivity	143.56	uS/cm
GC-AP-MW-23	9/10/2019 15:42	DO	5.57	mg/L
GC-AP-MW-23	9/10/2019 15:42	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:42	Oxidation Reduction Potention	119.23	mv
GC-AP-MW-23	9/10/2019 15:42	pH	5.78	pH
GC-AP-MW-23	9/10/2019 15:42	Temperature	22.93	C
GC-AP-MW-23	9/10/2019 15:42	Turbidity	1.07	NTU
GC-AP-MW-23	9/10/2019 15:47	Conductivity	157.41	uS/cm
GC-AP-MW-23	9/10/2019 15:47	DO	5.62	mg/L
GC-AP-MW-23	9/10/2019 15:47	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:47	Oxidation Reduction Potention	123.4	mv
GC-AP-MW-23	9/10/2019 15:47	pH	5.77	pH
GC-AP-MW-23	9/10/2019 15:47	Temperature	22.95	C
GC-AP-MW-23	9/10/2019 15:47	Turbidity	0.87	NTU
GC-AP-MW-23	9/10/2019 15:52	Conductivity	149.01	uS/cm
GC-AP-MW-23	9/10/2019 15:52	DO	5.65	mg/L
GC-AP-MW-23	9/10/2019 15:52	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:52	Oxidation Reduction Potention	125.93	mv
GC-AP-MW-23	9/10/2019 15:52	pH	5.77	pH
GC-AP-MW-23	9/10/2019 15:52	Temperature	22.93	C
GC-AP-MW-23	9/10/2019 15:52	Turbidity	0.43	NTU
GC-AP-MW-23	9/10/2019 15:57	Conductivity	142.22	uS/cm
GC-AP-MW-23	9/10/2019 15:57	DO	5.65	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	9/10/2019 15:57	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 15:57	Oxidation Reduction Potention	128.87	mv
GC-AP-MW-23	9/10/2019 15:57	pH	5.76	pH
GC-AP-MW-23	9/10/2019 15:57	Temperature	22.88	C
GC-AP-MW-23	9/10/2019 15:57	Turbidity	1.75	NTU
GC-AP-MW-23	9/10/2019 16:02	Conductivity	154.78	uS/cm
GC-AP-MW-23	9/10/2019 16:02	DO	5.65	mg/L
GC-AP-MW-23	9/10/2019 16:02	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:02	Oxidation Reduction Potention	131.67	mv
GC-AP-MW-23	9/10/2019 16:02	pH	5.75	pH
GC-AP-MW-23	9/10/2019 16:02	Temperature	22.93	C
GC-AP-MW-23	9/10/2019 16:02	Turbidity	0.46	NTU
GC-AP-MW-23	9/10/2019 16:07	Conductivity	148.72	uS/cm
GC-AP-MW-23	9/10/2019 16:07	DO	5.67	mg/L
GC-AP-MW-23	9/10/2019 16:07	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:07	Oxidation Reduction Potention	134.13	mv
GC-AP-MW-23	9/10/2019 16:07	pH	5.73	pH
GC-AP-MW-23	9/10/2019 16:07	Temperature	22.96	C
GC-AP-MW-23	9/10/2019 16:07	Turbidity	0.39	NTU
GC-AP-MW-23	9/10/2019 16:12	Conductivity	143.31	uS/cm
GC-AP-MW-23	9/10/2019 16:12	DO	5.69	mg/L
GC-AP-MW-23	9/10/2019 16:12	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:12	Oxidation Reduction Potention	136.63	mv
GC-AP-MW-23	9/10/2019 16:12	pH	5.73	pH
GC-AP-MW-23	9/10/2019 16:12	Temperature	22.94	C
GC-AP-MW-23	9/10/2019 16:12	Turbidity	0.68	NTU
GC-AP-MW-23	9/10/2019 16:17	Conductivity	134.56	uS/cm
GC-AP-MW-23	9/10/2019 16:17	DO	5.71	mg/L
GC-AP-MW-23	9/10/2019 16:17	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:17	Oxidation Reduction Potention	138.47	mv
GC-AP-MW-23	9/10/2019 16:17	pH	5.75	pH
GC-AP-MW-23	9/10/2019 16:17	Temperature	22.9	C
GC-AP-MW-23	9/10/2019 16:17	Turbidity	0.82	NTU
GC-AP-MW-23	9/10/2019 16:22	Conductivity	148.33	uS/cm
GC-AP-MW-23	9/10/2019 16:22	DO	5.73	mg/L
GC-AP-MW-23	9/10/2019 16:22	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:22	Oxidation Reduction Potention	139.74	mv
GC-AP-MW-23	9/10/2019 16:22	pH	5.78	pH
GC-AP-MW-23	9/10/2019 16:22	Temperature	22.89	C
GC-AP-MW-23	9/10/2019 16:22	Turbidity	0.35	NTU
GC-AP-MW-23	9/10/2019 16:27	Conductivity	142.31	uS/cm
GC-AP-MW-23	9/10/2019 16:27	DO	5.72	mg/L
GC-AP-MW-23	9/10/2019 16:27	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:27	Oxidation Reduction Potention	140.65	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	9/10/2019 16:27	pH	5.82	pH
GC-AP-MW-23	9/10/2019 16:27	Temperature	22.92	C
GC-AP-MW-23	9/10/2019 16:27	Turbidity	0.21	NTU
GC-AP-MW-23	9/10/2019 16:32	Conductivity	144.4	uS/cm
GC-AP-MW-23	9/10/2019 16:32	DO	5.72	mg/L
GC-AP-MW-23	9/10/2019 16:32	Depth to Water Detail	14.75	ft
GC-AP-MW-23	9/10/2019 16:32	Oxidation Reduction Potention	140.14	mv
GC-AP-MW-23	9/10/2019 16:32	pH	5.85	pH
GC-AP-MW-23	9/10/2019 16:32	Temperature	22.92	C
GC-AP-MW-23	9/10/2019 16:32	Turbidity	0.39	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	9/11/2019 13:23	Conductivity	276.05	uS/cm
GC-AP-MW-36H	9/11/2019 13:23	DO	0.74	mg/L
GC-AP-MW-36H	9/11/2019 13:23	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:23	Oxidation Reduction Potention	22.44	mv
GC-AP-MW-36H	9/11/2019 13:23	pH	7.11	pH
GC-AP-MW-36H	9/11/2019 13:23	Temperature	24.25	C
GC-AP-MW-36H	9/11/2019 13:23	Turbidity	7.05	NTU
GC-AP-MW-36H	9/11/2019 13:28	Conductivity	276.46	uS/cm
GC-AP-MW-36H	9/11/2019 13:28	DO	0.66	mg/L
GC-AP-MW-36H	9/11/2019 13:28	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:28	Oxidation Reduction Potention	25.57	mv
GC-AP-MW-36H	9/11/2019 13:28	pH	6.99	pH
GC-AP-MW-36H	9/11/2019 13:28	Temperature	24.13	C
GC-AP-MW-36H	9/11/2019 13:28	Turbidity	7.13	NTU
GC-AP-MW-36H	9/11/2019 13:33	Conductivity	275.92	uS/cm
GC-AP-MW-36H	9/11/2019 13:33	DO	0.63	mg/L
GC-AP-MW-36H	9/11/2019 13:33	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:33	Oxidation Reduction Potention	20.53	mv
GC-AP-MW-36H	9/11/2019 13:33	pH	7.02	pH
GC-AP-MW-36H	9/11/2019 13:33	Temperature	24.12	C
GC-AP-MW-36H	9/11/2019 13:33	Turbidity	8.82	NTU
GC-AP-MW-36H	9/11/2019 13:38	Conductivity	276.47	uS/cm
GC-AP-MW-36H	9/11/2019 13:38	DO	0.55	mg/L
GC-AP-MW-36H	9/11/2019 13:38	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:38	Oxidation Reduction Potention	13.07	mv
GC-AP-MW-36H	9/11/2019 13:38	pH	7.11	pH
GC-AP-MW-36H	9/11/2019 13:38	Temperature	23.96	C
GC-AP-MW-36H	9/11/2019 13:38	Turbidity	9.3	NTU
GC-AP-MW-36H	9/11/2019 13:43	Conductivity	276.67	uS/cm
GC-AP-MW-36H	9/11/2019 13:43	DO	0.55	mg/L
GC-AP-MW-36H	9/11/2019 13:43	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:43	Oxidation Reduction Potention	0.12	mv
GC-AP-MW-36H	9/11/2019 13:43	pH	7.13	pH
GC-AP-MW-36H	9/11/2019 13:43	Temperature	24.13	C
GC-AP-MW-36H	9/11/2019 13:43	Turbidity	9.79	NTU
GC-AP-MW-36H	9/11/2019 13:48	Conductivity	277.36	uS/cm
GC-AP-MW-36H	9/11/2019 13:48	DO	0.54	mg/L
GC-AP-MW-36H	9/11/2019 13:48	Depth to Water Detail	26.56	ft
GC-AP-MW-36H	9/11/2019 13:48	Oxidation Reduction Potention	-10.25	mv
GC-AP-MW-36H	9/11/2019 13:48	pH	7.2	pH
GC-AP-MW-36H	9/11/2019 13:48	Temperature	24.1	C
GC-AP-MW-36H	9/11/2019 13:48	Turbidity	9.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	9/11/2019 15:53	Conductivity	564.22	uS/cm
GC-AP-MW-41H	9/11/2019 15:53	DO	0.22	mg/L
GC-AP-MW-41H	9/11/2019 15:53	Depth to Water Detail	12.45	ft
GC-AP-MW-41H	9/11/2019 15:53	Oxidation Reduction Potention	34.61	mv
GC-AP-MW-41H	9/11/2019 15:53	pH	6.28	pH
GC-AP-MW-41H	9/11/2019 15:53	Temperature	20.8	C
GC-AP-MW-41H	9/11/2019 15:53	Turbidity	6.54	NTU
GC-AP-MW-41H	9/11/2019 15:58	Conductivity	559.33	uS/cm
GC-AP-MW-41H	9/11/2019 15:58	DO	0.17	mg/L
GC-AP-MW-41H	9/11/2019 15:58	Depth to Water Detail	12.47	ft
GC-AP-MW-41H	9/11/2019 15:58	Oxidation Reduction Potention	43.71	mv
GC-AP-MW-41H	9/11/2019 15:58	pH	5.95	pH
GC-AP-MW-41H	9/11/2019 15:58	Temperature	20.81	C
GC-AP-MW-41H	9/11/2019 15:58	Turbidity	6.14	NTU
GC-AP-MW-41H	9/11/2019 16:03	Conductivity	552.25	uS/cm
GC-AP-MW-41H	9/11/2019 16:03	DO	0.15	mg/L
GC-AP-MW-41H	9/11/2019 16:03	Depth to Water Detail	12.49	ft
GC-AP-MW-41H	9/11/2019 16:03	Oxidation Reduction Potention	36.45	mv
GC-AP-MW-41H	9/11/2019 16:03	pH	5.94	pH
GC-AP-MW-41H	9/11/2019 16:03	Temperature	20.75	C
GC-AP-MW-41H	9/11/2019 16:03	Turbidity	2.7	NTU
GC-AP-MW-41H	9/11/2019 16:08	Conductivity	547.76	uS/cm
GC-AP-MW-41H	9/11/2019 16:08	DO	0.15	mg/L
GC-AP-MW-41H	9/11/2019 16:08	Depth to Water Detail	12.49	ft
GC-AP-MW-41H	9/11/2019 16:08	Oxidation Reduction Potention	30.84	mv
GC-AP-MW-41H	9/11/2019 16:08	pH	5.96	pH
GC-AP-MW-41H	9/11/2019 16:08	Temperature	20.77	C
GC-AP-MW-41H	9/11/2019 16:08	Turbidity	1.6	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	9/10/2019 14:27	Conductivity	204.99	uS/cm
GC-AP-MW-24	9/10/2019 14:27	DO	4.86	mg/L
GC-AP-MW-24	9/10/2019 14:27	Depth to Water Detail	18.02	ft
GC-AP-MW-24	9/10/2019 14:27	Oxidation Reduction Potention	83.98	mv
GC-AP-MW-24	9/10/2019 14:27	pH	4.73	pH
GC-AP-MW-24	9/10/2019 14:27	Temperature	22.15	C
GC-AP-MW-24	9/10/2019 14:27	Turbidity	0.76	NTU
GC-AP-MW-24	9/10/2019 14:32	Conductivity	204.81	uS/cm
GC-AP-MW-24	9/10/2019 14:32	DO	4.85	mg/L
GC-AP-MW-24	9/10/2019 14:32	Depth to Water Detail	18.02	ft
GC-AP-MW-24	9/10/2019 14:32	Oxidation Reduction Potention	86.97	mv
GC-AP-MW-24	9/10/2019 14:32	pH	4.79	pH
GC-AP-MW-24	9/10/2019 14:32	Temperature	22.11	C
GC-AP-MW-24	9/10/2019 14:32	Turbidity	0.79	NTU
GC-AP-MW-24	9/10/2019 14:37	Conductivity	208.63	uS/cm
GC-AP-MW-24	9/10/2019 14:37	DO	4.81	mg/L
GC-AP-MW-24	9/10/2019 14:37	Depth to Water Detail	18.02	ft
GC-AP-MW-24	9/10/2019 14:37	Oxidation Reduction Potention	90.2	mv
GC-AP-MW-24	9/10/2019 14:37	pH	4.86	pH
GC-AP-MW-24	9/10/2019 14:37	Temperature	22.13	C
GC-AP-MW-24	9/10/2019 14:37	Turbidity	0.33	NTU
GC-AP-MW-24	9/10/2019 14:42	Conductivity	208.45	uS/cm
GC-AP-MW-24	9/10/2019 14:42	DO	4.8	mg/L
GC-AP-MW-24	9/10/2019 14:42	Depth to Water Detail	18.02	ft
GC-AP-MW-24	9/10/2019 14:42	Oxidation Reduction Potention	94.33	mv
GC-AP-MW-24	9/10/2019 14:42	pH	4.9	pH
GC-AP-MW-24	9/10/2019 14:42	Temperature	22.16	C
GC-AP-MW-24	9/10/2019 14:42	Turbidity	0.46	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	9/11/2019 11:13	Conductivity	582.71	uS/cm
GC-AP-MW-42H	9/11/2019 11:13	DO	0.66	mg/L
GC-AP-MW-42H	9/11/2019 11:13	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:13	Oxidation Reduction Potention	4.23	mv
GC-AP-MW-42H	9/11/2019 11:13	pH	6.18	pH
GC-AP-MW-42H	9/11/2019 11:13	Temperature	21.1	C
GC-AP-MW-42H	9/11/2019 11:13	Turbidity	115	NTU
GC-AP-MW-42H	9/11/2019 11:18	Conductivity	573.67	uS/cm
GC-AP-MW-42H	9/11/2019 11:18	DO	0.39	mg/L
GC-AP-MW-42H	9/11/2019 11:18	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:18	Oxidation Reduction Potention	3.64	mv
GC-AP-MW-42H	9/11/2019 11:18	pH	6.24	pH
GC-AP-MW-42H	9/11/2019 11:18	Temperature	21.03	C
GC-AP-MW-42H	9/11/2019 11:18	Turbidity	75.9	NTU
GC-AP-MW-42H	9/11/2019 11:23	Conductivity	563.37	uS/cm
GC-AP-MW-42H	9/11/2019 11:23	DO	0.35	mg/L
GC-AP-MW-42H	9/11/2019 11:23	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:23	Oxidation Reduction Potention	5.85	mv
GC-AP-MW-42H	9/11/2019 11:23	pH	6.21	pH
GC-AP-MW-42H	9/11/2019 11:23	Temperature	21.03	C
GC-AP-MW-42H	9/11/2019 11:23	Turbidity	75.2	NTU
GC-AP-MW-42H	9/11/2019 11:28	Conductivity	564.29	uS/cm
GC-AP-MW-42H	9/11/2019 11:28	DO	0.27	mg/L
GC-AP-MW-42H	9/11/2019 11:28	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:28	Oxidation Reduction Potention	5.28	mv
GC-AP-MW-42H	9/11/2019 11:28	pH	6.25	pH
GC-AP-MW-42H	9/11/2019 11:28	Temperature	21.04	C
GC-AP-MW-42H	9/11/2019 11:28	Turbidity	65.3	NTU
GC-AP-MW-42H	9/11/2019 11:33	Conductivity	557.45	uS/cm
GC-AP-MW-42H	9/11/2019 11:33	DO	0.25	mg/L
GC-AP-MW-42H	9/11/2019 11:33	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:33	Oxidation Reduction Potention	2.79	mv
GC-AP-MW-42H	9/11/2019 11:33	pH	6.2	pH
GC-AP-MW-42H	9/11/2019 11:33	Temperature	20.99	C
GC-AP-MW-42H	9/11/2019 11:33	Turbidity	56.2	NTU
GC-AP-MW-42H	9/11/2019 11:38	Conductivity	552.23	uS/cm
GC-AP-MW-42H	9/11/2019 11:38	DO	0.23	mg/L
GC-AP-MW-42H	9/11/2019 11:38	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:38	Oxidation Reduction Potention	1.65	mv
GC-AP-MW-42H	9/11/2019 11:38	pH	6.19	pH
GC-AP-MW-42H	9/11/2019 11:38	Temperature	20.94	C
GC-AP-MW-42H	9/11/2019 11:38	Turbidity	45.3	NTU
GC-AP-MW-42H	9/11/2019 11:43	Conductivity	554.36	uS/cm
GC-AP-MW-42H	9/11/2019 11:43	DO	0.22	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	9/11/2019 11:43	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:43	Oxidation Reduction Potention	1.62	mv
GC-AP-MW-42H	9/11/2019 11:43	pH	6.21	pH
GC-AP-MW-42H	9/11/2019 11:43	Temperature	20.97	C
GC-AP-MW-42H	9/11/2019 11:43	Turbidity	37.3	NTU
GC-AP-MW-42H	9/11/2019 11:48	Conductivity	550.07	uS/cm
GC-AP-MW-42H	9/11/2019 11:48	DO	0.21	mg/L
GC-AP-MW-42H	9/11/2019 11:48	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:48	Oxidation Reduction Potention	2.5	mv
GC-AP-MW-42H	9/11/2019 11:48	pH	6.19	pH
GC-AP-MW-42H	9/11/2019 11:48	Temperature	21	C
GC-AP-MW-42H	9/11/2019 11:48	Turbidity	28.6	NTU
GC-AP-MW-42H	9/11/2019 11:53	Conductivity	550.18	uS/cm
GC-AP-MW-42H	9/11/2019 11:53	DO	0.21	mg/L
GC-AP-MW-42H	9/11/2019 11:53	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:53	Oxidation Reduction Potention	1.74	mv
GC-AP-MW-42H	9/11/2019 11:53	pH	6.19	pH
GC-AP-MW-42H	9/11/2019 11:53	Temperature	20.99	C
GC-AP-MW-42H	9/11/2019 11:53	Turbidity	21.1	NTU
GC-AP-MW-42H	9/11/2019 11:58	Conductivity	545.66	uS/cm
GC-AP-MW-42H	9/11/2019 11:58	DO	0.21	mg/L
GC-AP-MW-42H	9/11/2019 11:58	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 11:58	Oxidation Reduction Potention	3.99	mv
GC-AP-MW-42H	9/11/2019 11:58	pH	6.21	pH
GC-AP-MW-42H	9/11/2019 11:58	Temperature	21	C
GC-AP-MW-42H	9/11/2019 11:58	Turbidity	16.7	NTU
GC-AP-MW-42H	9/11/2019 12:03	Conductivity	543.02	uS/cm
GC-AP-MW-42H	9/11/2019 12:03	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:03	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:03	Oxidation Reduction Potention	2.78	mv
GC-AP-MW-42H	9/11/2019 12:03	pH	6.21	pH
GC-AP-MW-42H	9/11/2019 12:03	Temperature	20.96	C
GC-AP-MW-42H	9/11/2019 12:03	Turbidity	16.2	NTU
GC-AP-MW-42H	9/11/2019 12:08	Conductivity	545.57	uS/cm
GC-AP-MW-42H	9/11/2019 12:08	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:08	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:08	Oxidation Reduction Potention	3.27	mv
GC-AP-MW-42H	9/11/2019 12:08	pH	6.19	pH
GC-AP-MW-42H	9/11/2019 12:08	Temperature	21.02	C
GC-AP-MW-42H	9/11/2019 12:08	Turbidity	14.8	NTU
GC-AP-MW-42H	9/11/2019 12:13	Conductivity	543.6	uS/cm
GC-AP-MW-42H	9/11/2019 12:13	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:13	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:13	Oxidation Reduction Potention	3.04	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	9/11/2019 12:13	pH	6.17	pH
GC-AP-MW-42H	9/11/2019 12:13	Temperature	20.99	C
GC-AP-MW-42H	9/11/2019 12:13	Turbidity	12.7	NTU
GC-AP-MW-42H	9/11/2019 12:18	Conductivity	540.08	uS/cm
GC-AP-MW-42H	9/11/2019 12:18	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:18	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:18	Oxidation Reduction Potention	4.07	mv
GC-AP-MW-42H	9/11/2019 12:18	pH	6.18	pH
GC-AP-MW-42H	9/11/2019 12:18	Temperature	20.93	C
GC-AP-MW-42H	9/11/2019 12:18	Turbidity	12	NTU
GC-AP-MW-42H	9/11/2019 12:23	Conductivity	540.15	uS/cm
GC-AP-MW-42H	9/11/2019 12:23	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:23	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:23	Oxidation Reduction Potention	3.54	mv
GC-AP-MW-42H	9/11/2019 12:23	pH	6.21	pH
GC-AP-MW-42H	9/11/2019 12:23	Temperature	20.99	C
GC-AP-MW-42H	9/11/2019 12:23	Turbidity	10.42	NTU
GC-AP-MW-42H	9/11/2019 12:28	Conductivity	536.87	uS/cm
GC-AP-MW-42H	9/11/2019 12:28	DO	0.2	mg/L
GC-AP-MW-42H	9/11/2019 12:28	Depth to Water Detail	6.48	ft
GC-AP-MW-42H	9/11/2019 12:28	Oxidation Reduction Potention	2.36	mv
GC-AP-MW-42H	9/11/2019 12:28	pH	6.2	pH
GC-AP-MW-42H	9/11/2019 12:28	Temperature	20.97	C
GC-AP-MW-42H	9/11/2019 12:28	Turbidity	9.54	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	9/11/2019 9:42	Conductivity	41.07	uS/cm
GC-AP-MW-26	9/11/2019 9:42	DO	5.24	mg/L
GC-AP-MW-26	9/11/2019 9:42	Depth to Water Detail	9.47	ft
GC-AP-MW-26	9/11/2019 9:42	Oxidation Reduction Potention	98.81	mv
GC-AP-MW-26	9/11/2019 9:42	pH	5.49	pH
GC-AP-MW-26	9/11/2019 9:42	Temperature	20.08	C
GC-AP-MW-26	9/11/2019 9:42	Turbidity	0.93	NTU
GC-AP-MW-26	9/11/2019 9:47	Conductivity	41.44	uS/cm
GC-AP-MW-26	9/11/2019 9:47	DO	5.43	mg/L
GC-AP-MW-26	9/11/2019 9:47	Depth to Water Detail	9.47	ft
GC-AP-MW-26	9/11/2019 9:47	Oxidation Reduction Potention	98.5	mv
GC-AP-MW-26	9/11/2019 9:47	pH	5.46	pH
GC-AP-MW-26	9/11/2019 9:47	Temperature	20.11	C
GC-AP-MW-26	9/11/2019 9:47	Turbidity	0.29	NTU
GC-AP-MW-26	9/11/2019 9:52	Conductivity	41.93	uS/cm
GC-AP-MW-26	9/11/2019 9:52	DO	5.54	mg/L
GC-AP-MW-26	9/11/2019 9:52	Depth to Water Detail	9.47	ft
GC-AP-MW-26	9/11/2019 9:52	Oxidation Reduction Potention	101.39	mv
GC-AP-MW-26	9/11/2019 9:52	pH	5.47	pH
GC-AP-MW-26	9/11/2019 9:52	Temperature	20.06	C
GC-AP-MW-26	9/11/2019 9:52	Turbidity	0.76	NTU
GC-AP-MW-26	9/11/2019 9:57	Conductivity	42.41	uS/cm
GC-AP-MW-26	9/11/2019 9:57	DO	5.6	mg/L
GC-AP-MW-26	9/11/2019 9:57	Depth to Water Detail	9.47	ft
GC-AP-MW-26	9/11/2019 9:57	Oxidation Reduction Potention	103.18	mv
GC-AP-MW-26	9/11/2019 9:57	pH	5.53	pH
GC-AP-MW-26	9/11/2019 9:57	Temperature	20.07	C
GC-AP-MW-26	9/11/2019 9:57	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	9/11/2019 9:40	Conductivity	634.33	uS/cm
GC-AP-MW-43H	9/11/2019 9:40	DO	0.58	mg/L
GC-AP-MW-43H	9/11/2019 9:40	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 9:40	Oxidation Reduction Potention	92.54	mv
GC-AP-MW-43H	9/11/2019 9:40	pH	6.48	pH
GC-AP-MW-43H	9/11/2019 9:40	Temperature	20.48	C
GC-AP-MW-43H	9/11/2019 9:40	Turbidity	150	NTU
GC-AP-MW-43H	9/11/2019 9:45	Conductivity	646.35	uS/cm
GC-AP-MW-43H	9/11/2019 9:45	DO	0.32	mg/L
GC-AP-MW-43H	9/11/2019 9:45	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 9:45	Oxidation Reduction Potention	62.73	mv
GC-AP-MW-43H	9/11/2019 9:45	pH	6.5	pH
GC-AP-MW-43H	9/11/2019 9:45	Temperature	20.38	C
GC-AP-MW-43H	9/11/2019 9:45	Turbidity	94.8	NTU
GC-AP-MW-43H	9/11/2019 9:50	Conductivity	646.66	uS/cm
GC-AP-MW-43H	9/11/2019 9:50	DO	0.24	mg/L
GC-AP-MW-43H	9/11/2019 9:50	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 9:50	Oxidation Reduction Potention	45.01	mv
GC-AP-MW-43H	9/11/2019 9:50	pH	6.5	pH
GC-AP-MW-43H	9/11/2019 9:50	Temperature	20.32	C
GC-AP-MW-43H	9/11/2019 9:50	Turbidity	60	NTU
GC-AP-MW-43H	9/11/2019 9:55	Conductivity	646.72	uS/cm
GC-AP-MW-43H	9/11/2019 9:55	DO	0.21	mg/L
GC-AP-MW-43H	9/11/2019 9:55	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 9:55	Oxidation Reduction Potention	31.13	mv
GC-AP-MW-43H	9/11/2019 9:55	pH	6.51	pH
GC-AP-MW-43H	9/11/2019 9:55	Temperature	20.3	C
GC-AP-MW-43H	9/11/2019 9:55	Turbidity	38.5	NTU
GC-AP-MW-43H	9/11/2019 10:00	Conductivity	644.16	uS/cm
GC-AP-MW-43H	9/11/2019 10:00	DO	0.19	mg/L
GC-AP-MW-43H	9/11/2019 10:00	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:00	Oxidation Reduction Potention	20.01	mv
GC-AP-MW-43H	9/11/2019 10:00	pH	6.52	pH
GC-AP-MW-43H	9/11/2019 10:00	Temperature	20.22	C
GC-AP-MW-43H	9/11/2019 10:00	Turbidity	15.7	NTU
GC-AP-MW-43H	9/11/2019 10:05	Conductivity	645.5	uS/cm
GC-AP-MW-43H	9/11/2019 10:05	DO	0.19	mg/L
GC-AP-MW-43H	9/11/2019 10:05	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:05	Oxidation Reduction Potention	12.29	mv
GC-AP-MW-43H	9/11/2019 10:05	pH	6.51	pH
GC-AP-MW-43H	9/11/2019 10:05	Temperature	20.22	C
GC-AP-MW-43H	9/11/2019 10:05	Turbidity	18	NTU
GC-AP-MW-43H	9/11/2019 10:10	Conductivity	644.96	uS/cm
GC-AP-MW-43H	9/11/2019 10:10	DO	0.18	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	9/11/2019 10:10	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:10	Oxidation Reduction Potention	6.15	mv
GC-AP-MW-43H	9/11/2019 10:10	pH	6.5	pH
GC-AP-MW-43H	9/11/2019 10:10	Temperature	20.31	C
GC-AP-MW-43H	9/11/2019 10:10	Turbidity	15.3	NTU
GC-AP-MW-43H	9/11/2019 10:15	Conductivity	644.87	uS/cm
GC-AP-MW-43H	9/11/2019 10:15	DO	0.17	mg/L
GC-AP-MW-43H	9/11/2019 10:15	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:15	Oxidation Reduction Potention	1.58	mv
GC-AP-MW-43H	9/11/2019 10:15	pH	6.51	pH
GC-AP-MW-43H	9/11/2019 10:15	Temperature	20.25	C
GC-AP-MW-43H	9/11/2019 10:15	Turbidity	7	NTU
GC-AP-MW-43H	9/11/2019 10:20	Conductivity	645.33	uS/cm
GC-AP-MW-43H	9/11/2019 10:20	DO	0.17	mg/L
GC-AP-MW-43H	9/11/2019 10:20	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:20	Oxidation Reduction Potention	-2.93	mv
GC-AP-MW-43H	9/11/2019 10:20	pH	6.54	pH
GC-AP-MW-43H	9/11/2019 10:20	Temperature	20.24	C
GC-AP-MW-43H	9/11/2019 10:20	Turbidity	8.87	NTU
GC-AP-MW-43H	9/11/2019 10:25	Conductivity	645.55	uS/cm
GC-AP-MW-43H	9/11/2019 10:25	DO	0.17	mg/L
GC-AP-MW-43H	9/11/2019 10:25	Depth to Water Detail	6.03	ft
GC-AP-MW-43H	9/11/2019 10:25	Oxidation Reduction Potention	-5.29	mv
GC-AP-MW-43H	9/11/2019 10:25	pH	6.52	pH
GC-AP-MW-43H	9/11/2019 10:25	Temperature	20.15	C
GC-AP-MW-43H	9/11/2019 10:25	Turbidity	4.92	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	9/11/2019 10:37	Conductivity	24.25	uS/cm
GC-AP-MW-27	9/11/2019 10:37	DO	6.99	mg/L
GC-AP-MW-27	9/11/2019 10:37	Depth to Water Detail	11.15	ft
GC-AP-MW-27	9/11/2019 10:37	Oxidation Reduction Potention	154.29	mv
GC-AP-MW-27	9/11/2019 10:37	pH	4.71	pH
GC-AP-MW-27	9/11/2019 10:37	Temperature	20.11	C
GC-AP-MW-27	9/11/2019 10:37	Turbidity	0.37	NTU
GC-AP-MW-27	9/11/2019 10:42	Conductivity	24.21	uS/cm
GC-AP-MW-27	9/11/2019 10:42	DO	6.97	mg/L
GC-AP-MW-27	9/11/2019 10:42	Depth to Water Detail	11.15	ft
GC-AP-MW-27	9/11/2019 10:42	Oxidation Reduction Potention	160.74	mv
GC-AP-MW-27	9/11/2019 10:42	pH	4.78	pH
GC-AP-MW-27	9/11/2019 10:42	Temperature	20.13	C
GC-AP-MW-27	9/11/2019 10:42	Turbidity	0.49	NTU
GC-AP-MW-27	9/11/2019 10:47	Conductivity	24.21	uS/cm
GC-AP-MW-27	9/11/2019 10:47	DO	6.96	mg/L
GC-AP-MW-27	9/11/2019 10:47	Depth to Water Detail	11.15	ft
GC-AP-MW-27	9/11/2019 10:47	Oxidation Reduction Potention	167.42	mv
GC-AP-MW-27	9/11/2019 10:47	pH	4.85	pH
GC-AP-MW-27	9/11/2019 10:47	Temperature	20.16	C
GC-AP-MW-27	9/11/2019 10:47	Turbidity	0.06	NTU
GC-AP-MW-27	9/11/2019 10:52	Conductivity	24.24	uS/cm
GC-AP-MW-27	9/11/2019 10:52	DO	6.97	mg/L
GC-AP-MW-27	9/11/2019 10:52	Depth to Water Detail	11.15	ft
GC-AP-MW-27	9/11/2019 10:52	Oxidation Reduction Potention	177.7	mv
GC-AP-MW-27	9/11/2019 10:52	pH	4.85	pH
GC-AP-MW-27	9/11/2019 10:52	Temperature	20.11	C
GC-AP-MW-27	9/11/2019 10:52	Turbidity	0.73	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	9/11/2019 16:49	Conductivity	999.22	uS/cm
GC-AP-MW-44H	9/11/2019 16:49	DO	0.23	mg/L
GC-AP-MW-44H	9/11/2019 16:49	Depth to Water Detail	8.68	ft
GC-AP-MW-44H	9/11/2019 16:49	Oxidation Reduction Potention	23.4	mv
GC-AP-MW-44H	9/11/2019 16:49	pH	6.35	pH
GC-AP-MW-44H	9/11/2019 16:49	Temperature	20.33	C
GC-AP-MW-44H	9/11/2019 16:49	Turbidity	46.7	NTU
GC-AP-MW-44H	9/11/2019 16:54	Conductivity	1015.36	uS/cm
GC-AP-MW-44H	9/11/2019 16:54	DO	0.18	mg/L
GC-AP-MW-44H	9/11/2019 16:54	Depth to Water Detail	8.73	ft
GC-AP-MW-44H	9/11/2019 16:54	Oxidation Reduction Potention	29.33	mv
GC-AP-MW-44H	9/11/2019 16:54	pH	6.15	pH
GC-AP-MW-44H	9/11/2019 16:54	Temperature	20.37	C
GC-AP-MW-44H	9/11/2019 16:54	Turbidity	31.2	NTU
GC-AP-MW-44H	9/11/2019 16:59	Conductivity	1027.05	uS/cm
GC-AP-MW-44H	9/11/2019 16:59	DO	0.16	mg/L
GC-AP-MW-44H	9/11/2019 16:59	Depth to Water Detail	8.8	ft
GC-AP-MW-44H	9/11/2019 16:59	Oxidation Reduction Potention	29.68	mv
GC-AP-MW-44H	9/11/2019 16:59	pH	6.11	pH
GC-AP-MW-44H	9/11/2019 16:59	Temperature	20.31	C
GC-AP-MW-44H	9/11/2019 16:59	Turbidity	13.5	NTU
GC-AP-MW-44H	9/11/2019 17:04	Conductivity	1032.66	uS/cm
GC-AP-MW-44H	9/11/2019 17:04	DO	0.15	mg/L
GC-AP-MW-44H	9/11/2019 17:04	Depth to Water Detail	8.83	ft
GC-AP-MW-44H	9/11/2019 17:04	Oxidation Reduction Potention	29.95	mv
GC-AP-MW-44H	9/11/2019 17:04	pH	6.11	pH
GC-AP-MW-44H	9/11/2019 17:04	Temperature	20.25	C
GC-AP-MW-44H	9/11/2019 17:04	Turbidity	6.22	NTU
GC-AP-MW-44H	9/11/2019 17:09	Conductivity	1040.74	uS/cm
GC-AP-MW-44H	9/11/2019 17:09	DO	0.15	mg/L
GC-AP-MW-44H	9/11/2019 17:09	Depth to Water Detail	8.85	ft
GC-AP-MW-44H	9/11/2019 17:09	Oxidation Reduction Potention	30.16	mv
GC-AP-MW-44H	9/11/2019 17:09	pH	6.11	pH
GC-AP-MW-44H	9/11/2019 17:09	Temperature	20.27	C
GC-AP-MW-44H	9/11/2019 17:09	Turbidity	4.49	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	9/11/2019 11:30	Conductivity	50.57	uS/cm
GC-AP-MW-28	9/11/2019 11:30	DO	8.04	mg/L
GC-AP-MW-28	9/11/2019 11:30	Depth to Water Detail	10.65	ft
GC-AP-MW-28	9/11/2019 11:30	Oxidation Reduction Potention	244.79	mv
GC-AP-MW-28	9/11/2019 11:30	pH	4.29	pH
GC-AP-MW-28	9/11/2019 11:30	Temperature	19.58	C
GC-AP-MW-28	9/11/2019 11:30	Turbidity	0.8	NTU
GC-AP-MW-28	9/11/2019 11:35	Conductivity	50.78	uS/cm
GC-AP-MW-28	9/11/2019 11:35	DO	8	mg/L
GC-AP-MW-28	9/11/2019 11:35	Depth to Water Detail	10.65	ft
GC-AP-MW-28	9/11/2019 11:35	Oxidation Reduction Potention	262.82	mv
GC-AP-MW-28	9/11/2019 11:35	pH	4.17	pH
GC-AP-MW-28	9/11/2019 11:35	Temperature	19.5	C
GC-AP-MW-28	9/11/2019 11:35	Turbidity	0.77	NTU
GC-AP-MW-28	9/11/2019 11:40	Conductivity	51.12	uS/cm
GC-AP-MW-28	9/11/2019 11:40	DO	7.92	mg/L
GC-AP-MW-28	9/11/2019 11:40	Depth to Water Detail	10.65	ft
GC-AP-MW-28	9/11/2019 11:40	Oxidation Reduction Potention	267.65	mv
GC-AP-MW-28	9/11/2019 11:40	pH	4.21	pH
GC-AP-MW-28	9/11/2019 11:40	Temperature	19.5	C
GC-AP-MW-28	9/11/2019 11:40	Turbidity	0.77	NTU
GC-AP-MW-28	9/11/2019 11:45	Conductivity	50.8	uS/cm
GC-AP-MW-28	9/11/2019 11:45	DO	7.85	mg/L
GC-AP-MW-28	9/11/2019 11:45	Depth to Water Detail	10.65	ft
GC-AP-MW-28	9/11/2019 11:45	Oxidation Reduction Potention	268.53	mv
GC-AP-MW-28	9/11/2019 11:45	pH	4.33	pH
GC-AP-MW-28	9/11/2019 11:45	Temperature	19.51	C
GC-AP-MW-28	9/11/2019 11:45	Turbidity	0.4	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	9/10/2019 14:36	Conductivity	647.47	uS/cm
GC-AP-PZ-4	9/10/2019 14:36	DO	0.27	mg/L
GC-AP-PZ-4	9/10/2019 14:36	Depth to Water Detail	11.56	ft
GC-AP-PZ-4	9/10/2019 14:36	Oxidation Reduction Potention	88.67	mv
GC-AP-PZ-4	9/10/2019 14:36	pH	5.3	pH
GC-AP-PZ-4	9/10/2019 14:36	Temperature	23.68	C
GC-AP-PZ-4	9/10/2019 14:36	Turbidity	1.32	NTU
GC-AP-PZ-4	9/10/2019 14:41	Conductivity	776.79	uS/cm
GC-AP-PZ-4	9/10/2019 14:41	DO	0.23	mg/L
GC-AP-PZ-4	9/10/2019 14:41	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 14:41	Oxidation Reduction Potention	75.53	mv
GC-AP-PZ-4	9/10/2019 14:41	pH	5.55	pH
GC-AP-PZ-4	9/10/2019 14:41	Temperature	23.6	C
GC-AP-PZ-4	9/10/2019 14:41	Turbidity	0.58	NTU
GC-AP-PZ-4	9/10/2019 14:46	Conductivity	862.61	uS/cm
GC-AP-PZ-4	9/10/2019 14:46	DO	0.19	mg/L
GC-AP-PZ-4	9/10/2019 14:46	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 14:46	Oxidation Reduction Potention	69.16	mv
GC-AP-PZ-4	9/10/2019 14:46	pH	5.66	pH
GC-AP-PZ-4	9/10/2019 14:46	Temperature	23.59	C
GC-AP-PZ-4	9/10/2019 14:46	Turbidity	0.23	NTU
GC-AP-PZ-4	9/10/2019 14:51	Conductivity	921.6	uS/cm
GC-AP-PZ-4	9/10/2019 14:51	DO	0.18	mg/L
GC-AP-PZ-4	9/10/2019 14:51	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 14:51	Oxidation Reduction Potention	66.48	mv
GC-AP-PZ-4	9/10/2019 14:51	pH	5.75	pH
GC-AP-PZ-4	9/10/2019 14:51	Temperature	23.5	C
GC-AP-PZ-4	9/10/2019 14:51	Turbidity	0.28	NTU
GC-AP-PZ-4	9/10/2019 14:56	Conductivity	973.74	uS/cm
GC-AP-PZ-4	9/10/2019 14:56	DO	0.17	mg/L
GC-AP-PZ-4	9/10/2019 14:56	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 14:56	Oxidation Reduction Potention	67.57	mv
GC-AP-PZ-4	9/10/2019 14:56	pH	5.78	pH
GC-AP-PZ-4	9/10/2019 14:56	Temperature	23.42	C
GC-AP-PZ-4	9/10/2019 14:56	Turbidity	0.25	NTU
GC-AP-PZ-4	9/10/2019 15:01	Conductivity	1001.63	uS/cm
GC-AP-PZ-4	9/10/2019 15:01	DO	0.17	mg/L
GC-AP-PZ-4	9/10/2019 15:01	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 15:01	Oxidation Reduction Potention	67.68	mv
GC-AP-PZ-4	9/10/2019 15:01	pH	5.81	pH
GC-AP-PZ-4	9/10/2019 15:01	Temperature	23.53	C
GC-AP-PZ-4	9/10/2019 15:01	Turbidity	0.26	NTU
GC-AP-PZ-4	9/10/2019 15:06	Conductivity	1052.71	uS/cm
GC-AP-PZ-4	9/10/2019 15:06	DO	0.16	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	9/10/2019 15:06	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 15:06	Oxidation Reduction Potention	69.38	mv
GC-AP-PZ-4	9/10/2019 15:06	pH	5.77	pH
GC-AP-PZ-4	9/10/2019 15:06	Temperature	23.45	C
GC-AP-PZ-4	9/10/2019 15:06	Turbidity	0.27	NTU
GC-AP-PZ-4	9/10/2019 15:11	Conductivity	1060.43	uS/cm
GC-AP-PZ-4	9/10/2019 15:11	DO	0.16	mg/L
GC-AP-PZ-4	9/10/2019 15:11	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 15:11	Oxidation Reduction Potention	68.23	mv
GC-AP-PZ-4	9/10/2019 15:11	pH	5.78	pH
GC-AP-PZ-4	9/10/2019 15:11	Temperature	23.47	C
GC-AP-PZ-4	9/10/2019 15:11	Turbidity	0.27	NTU
GC-AP-PZ-4	9/10/2019 15:16	Conductivity	1087.19	uS/cm
GC-AP-PZ-4	9/10/2019 15:16	DO	0.16	mg/L
GC-AP-PZ-4	9/10/2019 15:16	Depth to Water Detail	11.58	ft
GC-AP-PZ-4	9/10/2019 15:16	Oxidation Reduction Potention	66.85	mv
GC-AP-PZ-4	9/10/2019 15:16	pH	5.79	pH
GC-AP-PZ-4	9/10/2019 15:16	Temperature	23.49	C
GC-AP-PZ-4	9/10/2019 15:16	Turbidity	0.32	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	9/11/2019 12:52	Conductivity	15.74	uS/cm
GC-AP-MW-29	9/11/2019 12:52	DO	8.63	mg/L
GC-AP-MW-29	9/11/2019 12:52	Depth to Water Detail	9.47	ft
GC-AP-MW-29	9/11/2019 12:52	Oxidation Reduction Potention	345.05	mv
GC-AP-MW-29	9/11/2019 12:52	pH	3.92	pH
GC-AP-MW-29	9/11/2019 12:52	Temperature	19.67	C
GC-AP-MW-29	9/11/2019 12:52	Turbidity	0.54	NTU
GC-AP-MW-29	9/11/2019 12:57	Conductivity	16	uS/cm
GC-AP-MW-29	9/11/2019 12:57	DO	8.62	mg/L
GC-AP-MW-29	9/11/2019 12:57	Depth to Water Detail	9.47	ft
GC-AP-MW-29	9/11/2019 12:57	Oxidation Reduction Potention	353.2	mv
GC-AP-MW-29	9/11/2019 12:57	pH	3.89	pH
GC-AP-MW-29	9/11/2019 12:57	Temperature	19.71	C
GC-AP-MW-29	9/11/2019 12:57	Turbidity	0.64	NTU
GC-AP-MW-29	9/11/2019 13:02	Conductivity	15.97	uS/cm
GC-AP-MW-29	9/11/2019 13:02	DO	8.67	mg/L
GC-AP-MW-29	9/11/2019 13:02	Depth to Water Detail	9.47	ft
GC-AP-MW-29	9/11/2019 13:02	Oxidation Reduction Potention	354.54	mv
GC-AP-MW-29	9/11/2019 13:02	pH	3.9	pH
GC-AP-MW-29	9/11/2019 13:02	Temperature	19.61	C
GC-AP-MW-29	9/11/2019 13:02	Turbidity	0.78	NTU
GC-AP-MW-29	9/11/2019 13:07	Conductivity	16.02	uS/cm
GC-AP-MW-29	9/11/2019 13:07	DO	8.68	mg/L
GC-AP-MW-29	9/11/2019 13:07	Depth to Water Detail	9.47	ft
GC-AP-MW-29	9/11/2019 13:07	Oxidation Reduction Potention	355.2	mv
GC-AP-MW-29	9/11/2019 13:07	pH	3.96	pH
GC-AP-MW-29	9/11/2019 13:07	Temperature	19.6	C
GC-AP-MW-29	9/11/2019 13:07	Turbidity	0.37	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	9/11/2019 13:48	Conductivity	26.96	uS/cm
GC-AP-MW-30	9/11/2019 13:48	DO	4.33	mg/L
GC-AP-MW-30	9/11/2019 13:48	Depth to Water Detail	10.13	ft
GC-AP-MW-30	9/11/2019 13:48	Oxidation Reduction Potention	338.92	mv
GC-AP-MW-30	9/11/2019 13:48	pH	4.31	pH
GC-AP-MW-30	9/11/2019 13:48	Temperature	19.48	C
GC-AP-MW-30	9/11/2019 13:48	Turbidity	1.13	NTU
GC-AP-MW-30	9/11/2019 13:53	Conductivity	27.5	uS/cm
GC-AP-MW-30	9/11/2019 13:53	DO	4.48	mg/L
GC-AP-MW-30	9/11/2019 13:53	Depth to Water Detail	10.13	ft
GC-AP-MW-30	9/11/2019 13:53	Oxidation Reduction Potention	353.92	mv
GC-AP-MW-30	9/11/2019 13:53	pH	4.12	pH
GC-AP-MW-30	9/11/2019 13:53	Temperature	19.28	C
GC-AP-MW-30	9/11/2019 13:53	Turbidity	1.41	NTU
GC-AP-MW-30	9/11/2019 13:58	Conductivity	27.75	uS/cm
GC-AP-MW-30	9/11/2019 13:58	DO	4.54	mg/L
GC-AP-MW-30	9/11/2019 13:58	Depth to Water Detail	10.13	ft
GC-AP-MW-30	9/11/2019 13:58	Oxidation Reduction Potention	359	mv
GC-AP-MW-30	9/11/2019 13:58	pH	4.11	pH
GC-AP-MW-30	9/11/2019 13:58	Temperature	19.35	C
GC-AP-MW-30	9/11/2019 13:58	Turbidity	0.32	NTU
GC-AP-MW-30	9/11/2019 14:03	Conductivity	27.47	uS/cm
GC-AP-MW-30	9/11/2019 14:03	DO	4.58	mg/L
GC-AP-MW-30	9/11/2019 14:03	Depth to Water Detail	10.13	ft
GC-AP-MW-30	9/11/2019 14:03	Oxidation Reduction Potention	360.55	mv
GC-AP-MW-30	9/11/2019 14:03	pH	4.11	pH
GC-AP-MW-30	9/11/2019 14:03	Temperature	19.26	C
GC-AP-MW-30	9/11/2019 14:03	Turbidity	0.78	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	9/11/2019 16:48	Conductivity	109.03	uS/cm
GC-AP-MW-35H	9/11/2019 16:48	DO	7.61	mg/L
GC-AP-MW-35H	9/11/2019 16:48	Depth to Water Detail	22.13	ft
GC-AP-MW-35H	9/11/2019 16:48	Oxidation Reduction Potention	228.62	mv
GC-AP-MW-35H	9/11/2019 16:48	pH	5.71	pH
GC-AP-MW-35H	9/11/2019 16:48	Temperature	22.4	C
GC-AP-MW-35H	9/11/2019 16:48	Turbidity	0.26	NTU
GC-AP-MW-35H	9/11/2019 16:53	Conductivity	141.27	uS/cm
GC-AP-MW-35H	9/11/2019 16:53	DO	7.66	mg/L
GC-AP-MW-35H	9/11/2019 16:53	Depth to Water Detail	22.13	ft
GC-AP-MW-35H	9/11/2019 16:53	Oxidation Reduction Potention	238.84	mv
GC-AP-MW-35H	9/11/2019 16:53	pH	5.52	pH
GC-AP-MW-35H	9/11/2019 16:53	Temperature	22.29	C
GC-AP-MW-35H	9/11/2019 16:53	Turbidity	0.49	NTU
GC-AP-MW-35H	9/11/2019 16:58	Conductivity	140.05	uS/cm
GC-AP-MW-35H	9/11/2019 16:58	DO	7.62	mg/L
GC-AP-MW-35H	9/11/2019 16:58	Depth to Water Detail	22.13	ft
GC-AP-MW-35H	9/11/2019 16:58	Oxidation Reduction Potention	238.68	mv
GC-AP-MW-35H	9/11/2019 16:58	pH	5.53	pH
GC-AP-MW-35H	9/11/2019 16:58	Temperature	22.23	C
GC-AP-MW-35H	9/11/2019 16:58	Turbidity	0.47	NTU
GC-AP-MW-35H	9/11/2019 17:03	Conductivity	139.37	uS/cm
GC-AP-MW-35H	9/11/2019 17:03	DO	7.61	mg/L
GC-AP-MW-35H	9/11/2019 17:03	Depth to Water Detail	22.13	ft
GC-AP-MW-35H	9/11/2019 17:03	Oxidation Reduction Potention	236.48	mv
GC-AP-MW-35H	9/11/2019 17:03	pH	5.6	pH
GC-AP-MW-35H	9/11/2019 17:03	Temperature	22.25	C
GC-AP-MW-35H	9/11/2019 17:03	Turbidity	0.34	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	9/10/2019 11:02	Conductivity	794.52	uS/cm
GC-AP-MW-40H	9/10/2019 11:02	DO	0.32	mg/L
GC-AP-MW-40H	9/10/2019 11:02	Depth to Water Detail	13.55	ft
GC-AP-MW-40H	9/10/2019 11:02	Oxidation Reduction Potention	96.65	mv
GC-AP-MW-40H	9/10/2019 11:02	pH	5.58	pH
GC-AP-MW-40H	9/10/2019 11:02	Temperature	20.19	C
GC-AP-MW-40H	9/10/2019 11:02	Turbidity	4.32	NTU
GC-AP-MW-40H	9/10/2019 11:07	Conductivity	794.03	uS/cm
GC-AP-MW-40H	9/10/2019 11:07	DO	0.39	mg/L
GC-AP-MW-40H	9/10/2019 11:07	Depth to Water Detail	13.55	ft
GC-AP-MW-40H	9/10/2019 11:07	Oxidation Reduction Potention	94.93	mv
GC-AP-MW-40H	9/10/2019 11:07	pH	5.59	pH
GC-AP-MW-40H	9/10/2019 11:07	Temperature	20.12	C
GC-AP-MW-40H	9/10/2019 11:07	Turbidity	3.91	NTU
GC-AP-MW-40H	9/10/2019 11:12	Conductivity	795.47	uS/cm
GC-AP-MW-40H	9/10/2019 11:12	DO	0.28	mg/L
GC-AP-MW-40H	9/10/2019 11:12	Depth to Water Detail	13.55	ft
GC-AP-MW-40H	9/10/2019 11:12	Oxidation Reduction Potention	93.15	mv
GC-AP-MW-40H	9/10/2019 11:12	pH	5.61	pH
GC-AP-MW-40H	9/10/2019 11:12	Temperature	20.1	C
GC-AP-MW-40H	9/10/2019 11:12	Turbidity	1.66	NTU
GC-AP-MW-40H	9/10/2019 11:17	Conductivity	793.74	uS/cm
GC-AP-MW-40H	9/10/2019 11:17	DO	0.27	mg/L
GC-AP-MW-40H	9/10/2019 11:17	Depth to Water Detail	13.55	ft
GC-AP-MW-40H	9/10/2019 11:17	Oxidation Reduction Potention	91.72	mv
GC-AP-MW-40H	9/10/2019 11:17	pH	5.61	pH
GC-AP-MW-40H	9/10/2019 11:17	Temperature	20.03	C
GC-AP-MW-40H	9/10/2019 11:17	Turbidity	1.36	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	9/11/2019 17:18	Conductivity	708.96	uS/cm
GC-AP-MW-5	9/11/2019 17:18	DO	0.95	mg/L
GC-AP-MW-5	9/11/2019 17:18	Depth to Water Detail	12.45	ft
GC-AP-MW-5	9/11/2019 17:18	Oxidation Reduction Potention	-97.31	mv
GC-AP-MW-5	9/11/2019 17:18	pH	6.74	pH
GC-AP-MW-5	9/11/2019 17:18	Temperature	21.96	C
GC-AP-MW-5	9/11/2019 17:18	Turbidity	4.63	NTU
GC-AP-MW-5	9/11/2019 17:23	Conductivity	711.66	uS/cm
GC-AP-MW-5	9/11/2019 17:23	DO	0.81	mg/L
GC-AP-MW-5	9/11/2019 17:23	Depth to Water Detail	12.45	ft
GC-AP-MW-5	9/11/2019 17:23	Oxidation Reduction Potention	-85.51	mv
GC-AP-MW-5	9/11/2019 17:23	pH	6.53	pH
GC-AP-MW-5	9/11/2019 17:23	Temperature	21.96	C
GC-AP-MW-5	9/11/2019 17:23	Turbidity	2.64	NTU
GC-AP-MW-5	9/11/2019 17:28	Conductivity	716.03	uS/cm
GC-AP-MW-5	9/11/2019 17:28	DO	0.74	mg/L
GC-AP-MW-5	9/11/2019 17:28	Depth to Water Detail	12.45	ft
GC-AP-MW-5	9/11/2019 17:28	Oxidation Reduction Potention	-77.66	mv
GC-AP-MW-5	9/11/2019 17:28	pH	6.4	pH
GC-AP-MW-5	9/11/2019 17:28	Temperature	22	C
GC-AP-MW-5	9/11/2019 17:28	Turbidity	2.36	NTU
GC-AP-MW-5	9/11/2019 17:33	Conductivity	713.82	uS/cm
GC-AP-MW-5	9/11/2019 17:33	DO	0.72	mg/L
GC-AP-MW-5	9/11/2019 17:33	Depth to Water Detail	12.45	ft
GC-AP-MW-5	9/11/2019 17:33	Oxidation Reduction Potention	-75.29	mv
GC-AP-MW-5	9/11/2019 17:33	pH	6.36	pH
GC-AP-MW-5	9/11/2019 17:33	Temperature	21.98	C
GC-AP-MW-5	9/11/2019 17:33	Turbidity	2.66	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	9/10/2019 11:29	Conductivity	1169.28	uS/cm
GC-AP-MW-6	9/10/2019 11:29	DO	0.77	mg/L
GC-AP-MW-6	9/10/2019 11:29	Depth to Water Detail	6.76	ft
GC-AP-MW-6	9/10/2019 11:29	Oxidation Reduction Potention	96.56	mv
GC-AP-MW-6	9/10/2019 11:29	pH	6.59	pH
GC-AP-MW-6	9/10/2019 11:29	Temperature	21.7	C
GC-AP-MW-6	9/10/2019 11:29	Turbidity	3.52	NTU
GC-AP-MW-6	9/10/2019 11:34	Conductivity	1180.44	uS/cm
GC-AP-MW-6	9/10/2019 11:34	DO	0.64	mg/L
GC-AP-MW-6	9/10/2019 11:34	Depth to Water Detail	6.76	ft
GC-AP-MW-6	9/10/2019 11:34	Oxidation Reduction Potention	97.6	mv
GC-AP-MW-6	9/10/2019 11:34	pH	6.58	pH
GC-AP-MW-6	9/10/2019 11:34	Temperature	21.67	C
GC-AP-MW-6	9/10/2019 11:34	Turbidity	3.47	NTU
GC-AP-MW-6	9/10/2019 11:39	Conductivity	1180.64	uS/cm
GC-AP-MW-6	9/10/2019 11:39	DO	0.55	mg/L
GC-AP-MW-6	9/10/2019 11:39	Depth to Water Detail	6.76	ft
GC-AP-MW-6	9/10/2019 11:39	Oxidation Reduction Potention	98.76	mv
GC-AP-MW-6	9/10/2019 11:39	pH	6.56	pH
GC-AP-MW-6	9/10/2019 11:39	Temperature	21.63	C
GC-AP-MW-6	9/10/2019 11:39	Turbidity	3.46	NTU
GC-AP-MW-6	9/10/2019 11:44	Conductivity	1167.91	uS/cm
GC-AP-MW-6	9/10/2019 11:44	DO	0.53	mg/L
GC-AP-MW-6	9/10/2019 11:44	Depth to Water Detail	6.76	ft
GC-AP-MW-6	9/10/2019 11:44	Oxidation Reduction Potention	95	mv
GC-AP-MW-6	9/10/2019 11:44	pH	6.55	pH
GC-AP-MW-6	9/10/2019 11:44	Temperature	21.51	C
GC-AP-MW-6	9/10/2019 11:44	Turbidity	3.44	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	9/10/2019 10:45	Conductivity	1479.21	uS/cm
GC-AP-MW-7	9/10/2019 10:45	DO	1.01	mg/L
GC-AP-MW-7	9/10/2019 10:45	Depth to Water Detail	9.7	ft
GC-AP-MW-7	9/10/2019 10:45	Oxidation Reduction Potention	49.95	mv
GC-AP-MW-7	9/10/2019 10:45	pH	6.38	pH
GC-AP-MW-7	9/10/2019 10:45	Temperature	21.46	C
GC-AP-MW-7	9/10/2019 10:45	Turbidity	3.28	NTU
GC-AP-MW-7	9/10/2019 10:50	Conductivity	1552.5	uS/cm
GC-AP-MW-7	9/10/2019 10:50	DO	0.82	mg/L
GC-AP-MW-7	9/10/2019 10:50	Depth to Water Detail	9.7	ft
GC-AP-MW-7	9/10/2019 10:50	Oxidation Reduction Potention	52.98	mv
GC-AP-MW-7	9/10/2019 10:50	pH	6.38	pH
GC-AP-MW-7	9/10/2019 10:50	Temperature	21.54	C
GC-AP-MW-7	9/10/2019 10:50	Turbidity	3.73	NTU
GC-AP-MW-7	9/10/2019 10:55	Conductivity	1562.07	uS/cm
GC-AP-MW-7	9/10/2019 10:55	DO	0.76	mg/L
GC-AP-MW-7	9/10/2019 10:55	Depth to Water Detail	9.7	ft
GC-AP-MW-7	9/10/2019 10:55	Oxidation Reduction Potention	54.68	mv
GC-AP-MW-7	9/10/2019 10:55	pH	6.39	pH
GC-AP-MW-7	9/10/2019 10:55	Temperature	21.44	C
GC-AP-MW-7	9/10/2019 10:55	Turbidity	3.45	NTU
GC-AP-MW-7	9/10/2019 11:00	Conductivity	1562.06	uS/cm
GC-AP-MW-7	9/10/2019 11:00	DO	0.76	mg/L
GC-AP-MW-7	9/10/2019 11:00	Depth to Water Detail	9.7	ft
GC-AP-MW-7	9/10/2019 11:00	Oxidation Reduction Potention	53.59	mv
GC-AP-MW-7	9/10/2019 11:00	pH	6.39	pH
GC-AP-MW-7	9/10/2019 11:00	Temperature	21.5	C
GC-AP-MW-7	9/10/2019 11:00	Turbidity	3.54	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	9/10/2019 9:53	Conductivity	928.05	uS/cm
GC-AP-MW-8	9/10/2019 9:53	DO	0.74	mg/L
GC-AP-MW-8	9/10/2019 9:53	Depth to Water Detail	9.6	ft
GC-AP-MW-8	9/10/2019 9:53	Oxidation Reduction Potention	57.14	mv
GC-AP-MW-8	9/10/2019 9:53	pH	6.3	pH
GC-AP-MW-8	9/10/2019 9:53	Temperature	20.7	C
GC-AP-MW-8	9/10/2019 9:53	Turbidity	3.92	NTU
GC-AP-MW-8	9/10/2019 9:58	Conductivity	930.78	uS/cm
GC-AP-MW-8	9/10/2019 9:58	DO	0.67	mg/L
GC-AP-MW-8	9/10/2019 9:58	Depth to Water Detail	9.6	ft
GC-AP-MW-8	9/10/2019 9:58	Oxidation Reduction Potention	57.49	mv
GC-AP-MW-8	9/10/2019 9:58	pH	6.3	pH
GC-AP-MW-8	9/10/2019 9:58	Temperature	20.72	C
GC-AP-MW-8	9/10/2019 9:58	Turbidity	4.15	NTU
GC-AP-MW-8	9/10/2019 10:03	Conductivity	946.28	uS/cm
GC-AP-MW-8	9/10/2019 10:03	DO	0.63	mg/L
GC-AP-MW-8	9/10/2019 10:03	Depth to Water Detail	9.6	ft
GC-AP-MW-8	9/10/2019 10:03	Oxidation Reduction Potention	60.56	mv
GC-AP-MW-8	9/10/2019 10:03	pH	6.31	pH
GC-AP-MW-8	9/10/2019 10:03	Temperature	20.7	C
GC-AP-MW-8	9/10/2019 10:03	Turbidity	3.92	NTU
GC-AP-MW-8	9/10/2019 10:08	Conductivity	965.93	uS/cm
GC-AP-MW-8	9/10/2019 10:08	DO	0.6	mg/L
GC-AP-MW-8	9/10/2019 10:08	Depth to Water Detail	9.6	ft
GC-AP-MW-8	9/10/2019 10:08	Oxidation Reduction Potention	62.8	mv
GC-AP-MW-8	9/10/2019 10:08	pH	6.31	pH
GC-AP-MW-8	9/10/2019 10:08	Temperature	20.73	C
GC-AP-MW-8	9/10/2019 10:08	Turbidity	3.59	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	9/10/2019 9:02	Conductivity	947.82	uS/cm
GC-AP-MW-9	9/10/2019 9:02	DO	0.69	mg/L
GC-AP-MW-9	9/10/2019 9:02	Depth to Water Detail	6.95	ft
GC-AP-MW-9	9/10/2019 9:02	Oxidation Reduction Potention	-60.54	mv
GC-AP-MW-9	9/10/2019 9:02	pH	6.44	pH
GC-AP-MW-9	9/10/2019 9:02	Temperature	21.05	C
GC-AP-MW-9	9/10/2019 9:02	Turbidity	3.85	NTU
GC-AP-MW-9	9/10/2019 9:07	Conductivity	948.2	uS/cm
GC-AP-MW-9	9/10/2019 9:07	DO	0.6	mg/L
GC-AP-MW-9	9/10/2019 9:07	Depth to Water Detail	6.95	ft
GC-AP-MW-9	9/10/2019 9:07	Oxidation Reduction Potention	-59.2	mv
GC-AP-MW-9	9/10/2019 9:07	pH	6.41	pH
GC-AP-MW-9	9/10/2019 9:07	Temperature	20.96	C
GC-AP-MW-9	9/10/2019 9:07	Turbidity	3.53	NTU
GC-AP-MW-9	9/10/2019 9:12	Conductivity	945.81	uS/cm
GC-AP-MW-9	9/10/2019 9:12	DO	0.57	mg/L
GC-AP-MW-9	9/10/2019 9:12	Depth to Water Detail	6.95	ft
GC-AP-MW-9	9/10/2019 9:12	Oxidation Reduction Potention	-58.77	mv
GC-AP-MW-9	9/10/2019 9:12	pH	6.41	pH
GC-AP-MW-9	9/10/2019 9:12	Temperature	21	C
GC-AP-MW-9	9/10/2019 9:12	Turbidity	3.99	NTU
GC-AP-MW-9	9/10/2019 9:17	Conductivity	941.3	uS/cm
GC-AP-MW-9	9/10/2019 9:17	DO	0.56	mg/L
GC-AP-MW-9	9/10/2019 9:17	Depth to Water Detail	6.95	ft
GC-AP-MW-9	9/10/2019 9:17	Oxidation Reduction Potention	-56.83	mv
GC-AP-MW-9	9/10/2019 9:17	pH	6.43	pH
GC-AP-MW-9	9/10/2019 9:17	Temperature	20.98	C
GC-AP-MW-9	9/10/2019 9:17	Turbidity	3.32	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	9/10/2019 12:33	Conductivity	583.04	uS/cm
GC-AP-MW-10	9/10/2019 12:33	DO	0.43	mg/L
GC-AP-MW-10	9/10/2019 12:33	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:33	Oxidation Reduction Potention	-56.04	mv
GC-AP-MW-10	9/10/2019 12:33	pH	6.28	pH
GC-AP-MW-10	9/10/2019 12:33	Temperature	20.98	C
GC-AP-MW-10	9/10/2019 12:33	Turbidity	3.85	NTU
GC-AP-MW-10	9/10/2019 12:38	Conductivity	591.63	uS/cm
GC-AP-MW-10	9/10/2019 12:38	DO	0.42	mg/L
GC-AP-MW-10	9/10/2019 12:38	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:38	Oxidation Reduction Potention	-57.52	mv
GC-AP-MW-10	9/10/2019 12:38	pH	6.29	pH
GC-AP-MW-10	9/10/2019 12:38	Temperature	20.91	C
GC-AP-MW-10	9/10/2019 12:38	Turbidity	4.39	NTU
GC-AP-MW-10	9/10/2019 12:43	Conductivity	591.06	uS/cm
GC-AP-MW-10	9/10/2019 12:43	DO	0.42	mg/L
GC-AP-MW-10	9/10/2019 12:43	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:43	Oxidation Reduction Potention	-57.45	mv
GC-AP-MW-10	9/10/2019 12:43	pH	6.32	pH
GC-AP-MW-10	9/10/2019 12:43	Temperature	20.88	C
GC-AP-MW-10	9/10/2019 12:43	Turbidity	3.62	NTU
GC-AP-MW-10	9/10/2019 12:48	Conductivity	589.24	uS/cm
GC-AP-MW-10	9/10/2019 12:48	DO	0.41	mg/L
GC-AP-MW-10	9/10/2019 12:48	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:48	Oxidation Reduction Potention	-57.8	mv
GC-AP-MW-10	9/10/2019 12:48	pH	6.32	pH
GC-AP-MW-10	9/10/2019 12:48	Temperature	20.8	C
GC-AP-MW-10	9/10/2019 12:48	Turbidity	3.69	NTU
GC-AP-MW-10	9/10/2019 12:53	Conductivity	586.52	uS/cm
GC-AP-MW-10	9/10/2019 12:53	DO	0.41	mg/L
GC-AP-MW-10	9/10/2019 12:53	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:53	Oxidation Reduction Potention	-57.32	mv
GC-AP-MW-10	9/10/2019 12:53	pH	6.31	pH
GC-AP-MW-10	9/10/2019 12:53	Temperature	20.9	C
GC-AP-MW-10	9/10/2019 12:53	Turbidity	3.46	NTU
GC-AP-MW-10	9/10/2019 12:58	Conductivity	587.2	uS/cm
GC-AP-MW-10	9/10/2019 12:58	DO	0.4	mg/L
GC-AP-MW-10	9/10/2019 12:58	Depth to Water Detail	6.92	ft
GC-AP-MW-10	9/10/2019 12:58	Oxidation Reduction Potention	-58.12	mv
GC-AP-MW-10	9/10/2019 12:58	pH	6.33	pH
GC-AP-MW-10	9/10/2019 12:58	Temperature	20.92	C
GC-AP-MW-10	9/10/2019 12:58	Turbidity	3.88	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	9/10/2019 13:45	Conductivity	989.4	uS/cm
GC-AP-MW-14	9/10/2019 13:45	DO	0.92	mg/L
GC-AP-MW-14	9/10/2019 13:45	Depth to Water Detail	9.85	ft
GC-AP-MW-14	9/10/2019 13:45	Oxidation Reduction Potention	-58.81	mv
GC-AP-MW-14	9/10/2019 13:45	pH	6.3	pH
GC-AP-MW-14	9/10/2019 13:45	Temperature	21.24	C
GC-AP-MW-14	9/10/2019 13:45	Turbidity	6.23	NTU
GC-AP-MW-14	9/10/2019 13:50	Conductivity	986.8	uS/cm
GC-AP-MW-14	9/10/2019 13:50	DO	0.75	mg/L
GC-AP-MW-14	9/10/2019 13:50	Depth to Water Detail	9.85	ft
GC-AP-MW-14	9/10/2019 13:50	Oxidation Reduction Potention	-44.04	mv
GC-AP-MW-14	9/10/2019 13:50	pH	6.06	pH
GC-AP-MW-14	9/10/2019 13:50	Temperature	21.26	C
GC-AP-MW-14	9/10/2019 13:50	Turbidity	5.68	NTU
GC-AP-MW-14	9/10/2019 13:55	Conductivity	993.28	uS/cm
GC-AP-MW-14	9/10/2019 13:55	DO	0.68	mg/L
GC-AP-MW-14	9/10/2019 13:55	Depth to Water Detail	9.85	ft
GC-AP-MW-14	9/10/2019 13:55	Oxidation Reduction Potention	-45.01	mv
GC-AP-MW-14	9/10/2019 13:55	pH	6.09	pH
GC-AP-MW-14	9/10/2019 13:55	Temperature	21.27	C
GC-AP-MW-14	9/10/2019 13:55	Turbidity	5.12	NTU
GC-AP-MW-14	9/10/2019 14:00	Conductivity	986.16	uS/cm
GC-AP-MW-14	9/10/2019 14:00	DO	0.65	mg/L
GC-AP-MW-14	9/10/2019 14:00	Depth to Water Detail	9.85	ft
GC-AP-MW-14	9/10/2019 14:00	Oxidation Reduction Potention	-45.71	mv
GC-AP-MW-14	9/10/2019 14:00	pH	6.11	pH
GC-AP-MW-14	9/10/2019 14:00	Temperature	21.35	C
GC-AP-MW-14	9/10/2019 14:00	Turbidity	5.41	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	9/11/2019 9:03	Conductivity	69.9	uS/cm
GC-AP-MW-31	9/11/2019 9:03	DO	0.82	mg/L
GC-AP-MW-31	9/11/2019 9:03	Depth to Water Detail	9.6	ft
GC-AP-MW-31	9/11/2019 9:03	Oxidation Reduction Potention	38.82	mv
GC-AP-MW-31	9/11/2019 9:03	pH	5.84	pH
GC-AP-MW-31	9/11/2019 9:03	Temperature	19.52	C
GC-AP-MW-31	9/11/2019 9:03	Turbidity	4.02	NTU
GC-AP-MW-31	9/11/2019 9:08	Conductivity	72.55	uS/cm
GC-AP-MW-31	9/11/2019 9:08	DO	0.97	mg/L
GC-AP-MW-31	9/11/2019 9:08	Depth to Water Detail	9.6	ft
GC-AP-MW-31	9/11/2019 9:08	Oxidation Reduction Potention	40.93	mv
GC-AP-MW-31	9/11/2019 9:08	pH	5.84	pH
GC-AP-MW-31	9/11/2019 9:08	Temperature	19.54	C
GC-AP-MW-31	9/11/2019 9:08	Turbidity	3.44	NTU
GC-AP-MW-31	9/11/2019 9:13	Conductivity	73.16	uS/cm
GC-AP-MW-31	9/11/2019 9:13	DO	1.1	mg/L
GC-AP-MW-31	9/11/2019 9:13	Depth to Water Detail	9.6	ft
GC-AP-MW-31	9/11/2019 9:13	Oxidation Reduction Potention	45.3	mv
GC-AP-MW-31	9/11/2019 9:13	pH	5.85	pH
GC-AP-MW-31	9/11/2019 9:13	Temperature	19.46	C
GC-AP-MW-31	9/11/2019 9:13	Turbidity	3.17	NTU
GC-AP-MW-31	9/11/2019 9:18	Conductivity	74.1	uS/cm
GC-AP-MW-31	9/11/2019 9:18	DO	1.1	mg/L
GC-AP-MW-31	9/11/2019 9:18	Depth to Water Detail	9.6	ft
GC-AP-MW-31	9/11/2019 9:18	Oxidation Reduction Potention	48.28	mv
GC-AP-MW-31	9/11/2019 9:18	pH	5.85	pH
GC-AP-MW-31	9/11/2019 9:18	Temperature	19.47	C
GC-AP-MW-31	9/11/2019 9:18	Turbidity	2.99	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	9/11/2019 11:16	Conductivity	70.75	uS/cm
GC-AP-MW-32	9/11/2019 11:16	DO	4.27	mg/L
GC-AP-MW-32	9/11/2019 11:16	Depth to Water Detail	17.51	ft
GC-AP-MW-32	9/11/2019 11:16	Oxidation Reduction Potention	269.79	mv
GC-AP-MW-32	9/11/2019 11:16	pH	5.86	pH
GC-AP-MW-32	9/11/2019 11:16	Temperature	20.27	C
GC-AP-MW-32	9/11/2019 11:16	Turbidity	2.71	NTU
GC-AP-MW-32	9/11/2019 11:21	Conductivity	72.44	uS/cm
GC-AP-MW-32	9/11/2019 11:21	DO	4.16	mg/L
GC-AP-MW-32	9/11/2019 11:21	Depth to Water Detail	17.55	ft
GC-AP-MW-32	9/11/2019 11:21	Oxidation Reduction Potention	273.2	mv
GC-AP-MW-32	9/11/2019 11:21	pH	5.87	pH
GC-AP-MW-32	9/11/2019 11:21	Temperature	20.27	C
GC-AP-MW-32	9/11/2019 11:21	Turbidity	2.68	NTU
GC-AP-MW-32	9/11/2019 11:26	Conductivity	72.92	uS/cm
GC-AP-MW-32	9/11/2019 11:26	DO	4.1	mg/L
GC-AP-MW-32	9/11/2019 11:26	Depth to Water Detail	17.55	ft
GC-AP-MW-32	9/11/2019 11:26	Oxidation Reduction Potention	276.37	mv
GC-AP-MW-32	9/11/2019 11:26	pH	5.85	pH
GC-AP-MW-32	9/11/2019 11:26	Temperature	20.38	C
GC-AP-MW-32	9/11/2019 11:26	Turbidity	2.89	NTU
GC-AP-MW-32	9/11/2019 11:31	Conductivity	73.41	uS/cm
GC-AP-MW-32	9/11/2019 11:31	DO	4.08	mg/L
GC-AP-MW-32	9/11/2019 11:31	Depth to Water Detail	17.55	ft
GC-AP-MW-32	9/11/2019 11:31	Oxidation Reduction Potention	278.06	mv
GC-AP-MW-32	9/11/2019 11:31	pH	5.87	pH
GC-AP-MW-32	9/11/2019 11:31	Temperature	20.34	C
GC-AP-MW-32	9/11/2019 11:31	Turbidity	2.78	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	9/11/2019 10:16	Conductivity	103.34	uS/cm
GC-AP-MW-33	9/11/2019 10:16	DO	4.58	mg/L
GC-AP-MW-33	9/11/2019 10:16	Depth to Water Detail	20.55	ft
GC-AP-MW-33	9/11/2019 10:16	Oxidation Reduction Potention	262.05	mv
GC-AP-MW-33	9/11/2019 10:16	pH	4.58	pH
GC-AP-MW-33	9/11/2019 10:16	Temperature	19.35	C
GC-AP-MW-33	9/11/2019 10:16	Turbidity	2.73	NTU
GC-AP-MW-33	9/11/2019 10:21	Conductivity	103.75	uS/cm
GC-AP-MW-33	9/11/2019 10:21	DO	4.59	mg/L
GC-AP-MW-33	9/11/2019 10:21	Depth to Water Detail	20.55	ft
GC-AP-MW-33	9/11/2019 10:21	Oxidation Reduction Potention	283.11	mv
GC-AP-MW-33	9/11/2019 10:21	pH	4.55	pH
GC-AP-MW-33	9/11/2019 10:21	Temperature	19.36	C
GC-AP-MW-33	9/11/2019 10:21	Turbidity	2.71	NTU
GC-AP-MW-33	9/11/2019 10:26	Conductivity	102.94	uS/cm
GC-AP-MW-33	9/11/2019 10:26	DO	4.61	mg/L
GC-AP-MW-33	9/11/2019 10:26	Depth to Water Detail	20.55	ft
GC-AP-MW-33	9/11/2019 10:26	Oxidation Reduction Potention	296.84	mv
GC-AP-MW-33	9/11/2019 10:26	pH	4.55	pH
GC-AP-MW-33	9/11/2019 10:26	Temperature	19.31	C
GC-AP-MW-33	9/11/2019 10:26	Turbidity	2.97	NTU
GC-AP-MW-33	9/11/2019 10:31	Conductivity	101.45	uS/cm
GC-AP-MW-33	9/11/2019 10:31	DO	4.65	mg/L
GC-AP-MW-33	9/11/2019 10:31	Depth to Water Detail	20.55	ft
GC-AP-MW-33	9/11/2019 10:31	Oxidation Reduction Potention	306.97	mv
GC-AP-MW-33	9/11/2019 10:31	pH	4.57	pH
GC-AP-MW-33	9/11/2019 10:31	Temperature	19.44	C
GC-AP-MW-33	9/11/2019 10:31	Turbidity	3.19	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	9/11/2019 13:59	Conductivity	455.03	uS/cm
GC-AP-MW-38H	9/11/2019 13:59	DO	2.53	mg/L
GC-AP-MW-38H	9/11/2019 13:59	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 13:59	Oxidation Reduction Potention	88.43	mv
GC-AP-MW-38H	9/11/2019 13:59	pH	6.71	pH
GC-AP-MW-38H	9/11/2019 13:59	Temperature	27.06	C
GC-AP-MW-38H	9/11/2019 13:59	Turbidity	18.9	NTU
GC-AP-MW-38H	9/11/2019 14:04	Conductivity	471.21	uS/cm
GC-AP-MW-38H	9/11/2019 14:04	DO	2.42	mg/L
GC-AP-MW-38H	9/11/2019 14:04	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:04	Oxidation Reduction Potention	25.62	mv
GC-AP-MW-38H	9/11/2019 14:04	pH	6.69	pH
GC-AP-MW-38H	9/11/2019 14:04	Temperature	27.15	C
GC-AP-MW-38H	9/11/2019 14:04	Turbidity	22.3	NTU
GC-AP-MW-38H	9/11/2019 14:09	Conductivity	481.46	uS/cm
GC-AP-MW-38H	9/11/2019 14:09	DO	2.27	mg/L
GC-AP-MW-38H	9/11/2019 14:09	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:09	Oxidation Reduction Potention	-4.37	mv
GC-AP-MW-38H	9/11/2019 14:09	pH	6.68	pH
GC-AP-MW-38H	9/11/2019 14:09	Temperature	27.38	C
GC-AP-MW-38H	9/11/2019 14:09	Turbidity	21.3	NTU
GC-AP-MW-38H	9/11/2019 14:14	Conductivity	481.99	uS/cm
GC-AP-MW-38H	9/11/2019 14:14	DO	2.16	mg/L
GC-AP-MW-38H	9/11/2019 14:14	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:14	Oxidation Reduction Potention	-7.41	mv
GC-AP-MW-38H	9/11/2019 14:14	pH	6.65	pH
GC-AP-MW-38H	9/11/2019 14:14	Temperature	27.32	C
GC-AP-MW-38H	9/11/2019 14:14	Turbidity	18.2	NTU
GC-AP-MW-38H	9/11/2019 14:19	Conductivity	471.63	uS/cm
GC-AP-MW-38H	9/11/2019 14:19	DO	2.06	mg/L
GC-AP-MW-38H	9/11/2019 14:19	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:19	Oxidation Reduction Potention	-3.37	mv
GC-AP-MW-38H	9/11/2019 14:19	pH	6.6	pH
GC-AP-MW-38H	9/11/2019 14:19	Temperature	26.74	C
GC-AP-MW-38H	9/11/2019 14:19	Turbidity	14.7	NTU
GC-AP-MW-38H	9/11/2019 14:24	Conductivity	460.75	uS/cm
GC-AP-MW-38H	9/11/2019 14:24	DO	2.08	mg/L
GC-AP-MW-38H	9/11/2019 14:24	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:24	Oxidation Reduction Potention	5.87	mv
GC-AP-MW-38H	9/11/2019 14:24	pH	6.57	pH
GC-AP-MW-38H	9/11/2019 14:24	Temperature	26.99	C
GC-AP-MW-38H	9/11/2019 14:24	Turbidity	8.65	NTU
GC-AP-MW-38H	9/11/2019 14:29	Conductivity	454.59	uS/cm
GC-AP-MW-38H	9/11/2019 14:29	DO	2.15	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	9/11/2019 14:29	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:29	Oxidation Reduction Potention	9.05	mv
GC-AP-MW-38H	9/11/2019 14:29	pH	6.57	pH
GC-AP-MW-38H	9/11/2019 14:29	Temperature	27.18	C
GC-AP-MW-38H	9/11/2019 14:29	Turbidity	6.29	NTU
GC-AP-MW-38H	9/11/2019 14:34	Conductivity	450.97	uS/cm
GC-AP-MW-38H	9/11/2019 14:34	DO	2.2	mg/L
GC-AP-MW-38H	9/11/2019 14:34	Depth to Water Detail	19.95	ft
GC-AP-MW-38H	9/11/2019 14:34	Oxidation Reduction Potention	13.64	mv
GC-AP-MW-38H	9/11/2019 14:34	pH	6.55	pH
GC-AP-MW-38H	9/11/2019 14:34	Temperature	27.07	C
GC-AP-MW-38H	9/11/2019 14:34	Turbidity	4.86	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	9/11/2019 13:09	Conductivity	815.24	uS/cm
GC-AP-MW-39H	9/11/2019 13:09	DO	0.25	mg/L
GC-AP-MW-39H	9/11/2019 13:09	Depth to Water Detail	35.45	ft
GC-AP-MW-39H	9/11/2019 13:09	Oxidation Reduction Potention	-39.47	mv
GC-AP-MW-39H	9/11/2019 13:09	pH	6.04	pH
GC-AP-MW-39H	9/11/2019 13:09	Temperature	20.48	C
GC-AP-MW-39H	9/11/2019 13:09	Turbidity	11.1	NTU
GC-AP-MW-39H	9/11/2019 13:14	Conductivity	799.95	uS/cm
GC-AP-MW-39H	9/11/2019 13:14	DO	0.23	mg/L
GC-AP-MW-39H	9/11/2019 13:14	Depth to Water Detail	35.45	ft
GC-AP-MW-39H	9/11/2019 13:14	Oxidation Reduction Potention	-42.45	mv
GC-AP-MW-39H	9/11/2019 13:14	pH	6.1	pH
GC-AP-MW-39H	9/11/2019 13:14	Temperature	20.37	C
GC-AP-MW-39H	9/11/2019 13:14	Turbidity	7.57	NTU
GC-AP-MW-39H	9/11/2019 13:19	Conductivity	796.31	uS/cm
GC-AP-MW-39H	9/11/2019 13:19	DO	0.21	mg/L
GC-AP-MW-39H	9/11/2019 13:19	Depth to Water Detail	35.45	ft
GC-AP-MW-39H	9/11/2019 13:19	Oxidation Reduction Potention	-46.34	mv
GC-AP-MW-39H	9/11/2019 13:19	pH	6.16	pH
GC-AP-MW-39H	9/11/2019 13:19	Temperature	20.31	C
GC-AP-MW-39H	9/11/2019 13:19	Turbidity	5.75	NTU
GC-AP-MW-39H	9/11/2019 13:24	Conductivity	795.96	uS/cm
GC-AP-MW-39H	9/11/2019 13:24	DO	0.19	mg/L
GC-AP-MW-39H	9/11/2019 13:24	Depth to Water Detail	35.45	ft
GC-AP-MW-39H	9/11/2019 13:24	Oxidation Reduction Potention	-47.23	mv
GC-AP-MW-39H	9/11/2019 13:24	pH	6.17	pH
GC-AP-MW-39H	9/11/2019 13:24	Temperature	20.41	C
GC-AP-MW-39H	9/11/2019 13:24	Turbidity	4.43	NTU

Appendix C

1st
Semi-Annual
Monitoring Event

Intrawell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (SU)	**GC-AP-MW-11**	**6.241**	**5.877**	**3/27/2019**	**6.37**	**Yes**	**10**	**0**	**No**	**0.000171**	**Param Intra 1 of 2**

Intrawell Prediction Limits - All Results

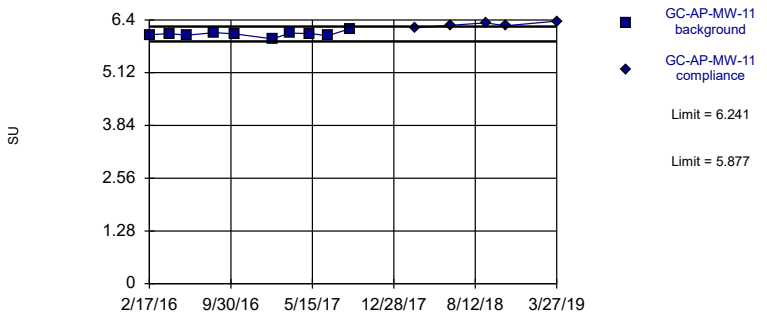
Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (SU)	**GC-AP-MW-11**	**6.241**	**5.877**	**3/27/2019**	**6.37**	**Yes**	**10**	**0**	**No**	**0.000171**	**Param Intra 1 of 2**
pH (SU)	GC-AP-MW-12	7.085	6.661	3/26/2019	6.95	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-21	7.308	6.516	3/26/2019	6.84	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-23	6.845	6.206	3/26/2019	6.46	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-24	5.619	5.256	3/26/2019	5.32	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-26	6.605	4.351	3/26/2019	5.4	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-27	5.739	4.357	3/26/2019	4.96	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-28	6.276	4.088	3/26/2019	4.92	No	12	0	ln(x)	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-29	7.765	3.992	3/26/2019	4.97	No	12	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-30	5.696	4.937	3/26/2019	5.16	No	12	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-31	7.452	5.666	3/27/2019	5.95	No	12	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-32	6.17	5.857	3/27/2019	6.15	No	13	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-33	7.164	3.771	3/27/2019	4.68	No	12	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-1	6.107	5.719	3/27/2019	5.8	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-2	6.249	5.947	3/27/2019	6.06	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-3	6.466	6.236	3/27/2019	6.44	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-5	6.788	6.478	3/27/2019	6.59	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-6	6.607	6.325	3/26/2019	6.54	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-7	6.517	6.369	3/26/2019	6.39	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-8	6.408	6.134	3/26/2019	6.32	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-9	6.611	6.257	3/26/2019	6.47	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-10	6.824	6.106	3/27/2019	6.53	No	10	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-13	7.047	5.984	3/26/2019	6.54	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-14	6.549	6.17	3/27/2019	6.41	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-15	6.267	5.977	3/26/2019	6.1	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-16	6.454	6.15	3/26/2019	6.34	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-17	6.63	6.138	3/26/2019	6.52	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-18	6.425	6.162	3/26/2019	6.3	No	11	0	No	0.000171	Param Intra 1 of 2
pH (SU)	GC-AP-MW-25	5.478	5.142	3/27/2019	5.27	No	11	0	No	0.000171	Param Intra 1 of 2

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.059, Std. Dev.=0.06297, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9209, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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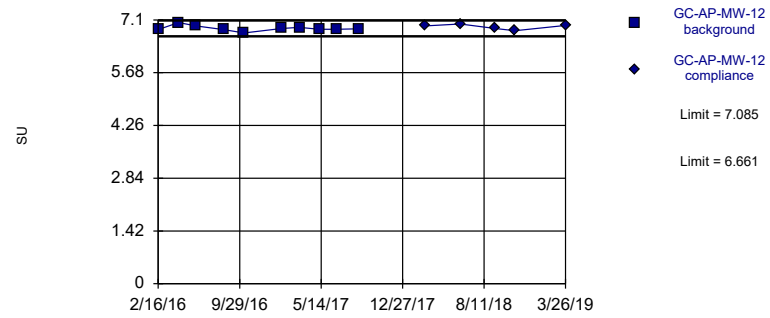
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.873, Std. Dev.=0.07334, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9049, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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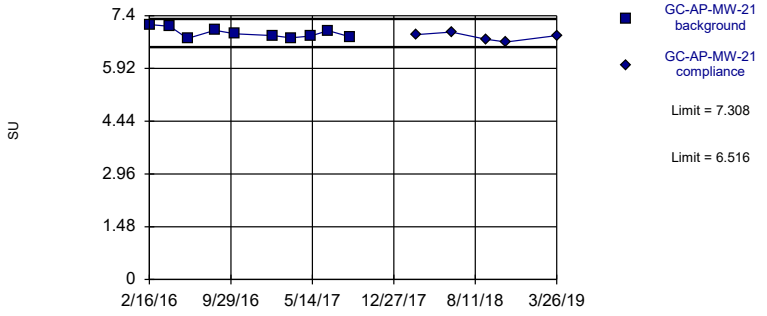
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.912, Std. Dev.=0.1367, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9053, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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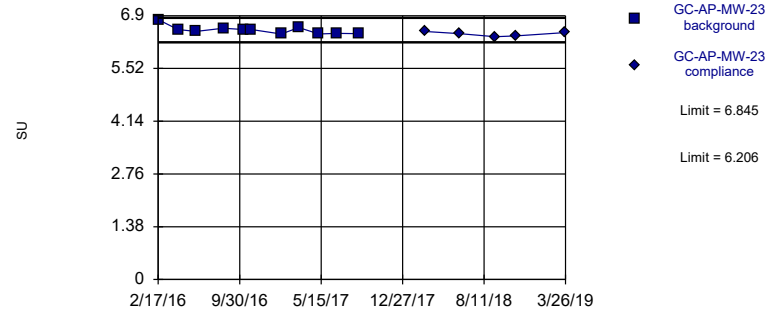
Within Limits

Prediction Limit

Intrawell Parametric



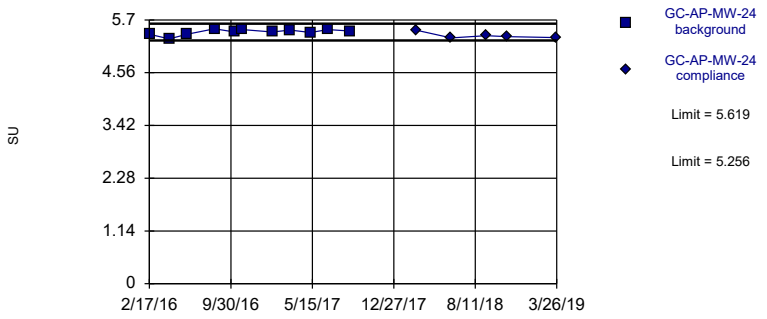
Background Data Summary: Mean=6.525, Std. Dev.=0.1105, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8315, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.437, Std. Dev.=0.06278, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8919, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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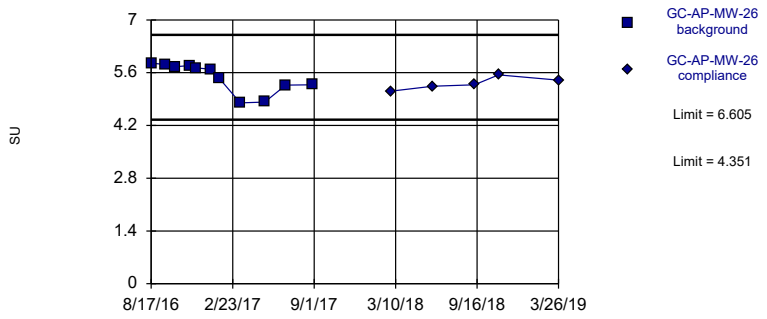
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.478, Std. Dev.=0.3894, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8348, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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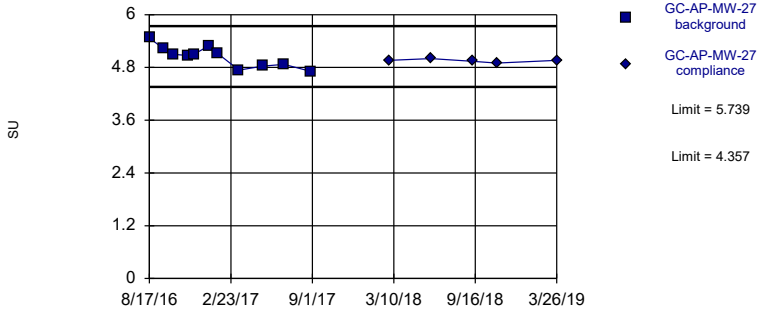
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.048, Std. Dev.=0.2389, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9527, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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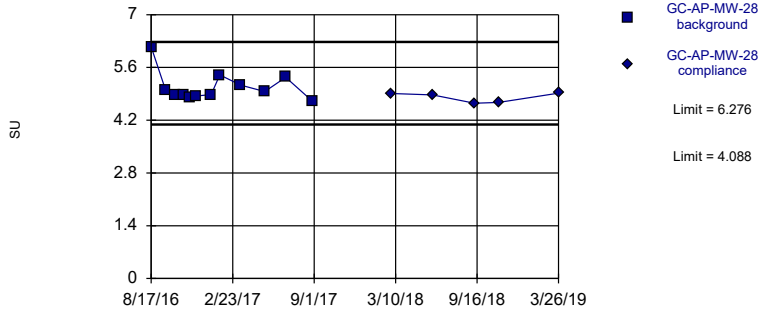
Within Limits

Prediction Limit

Intrawell Parametric



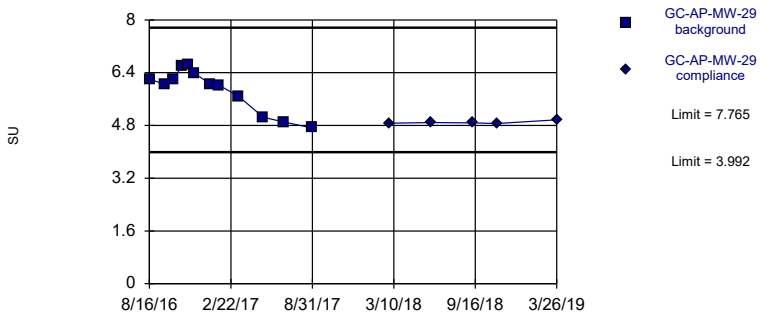
Background Data Summary (based on natural log transformation): Mean=1.622, Std. Dev.=0.07407, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8072, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.878, Std. Dev.=0.6519, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8813, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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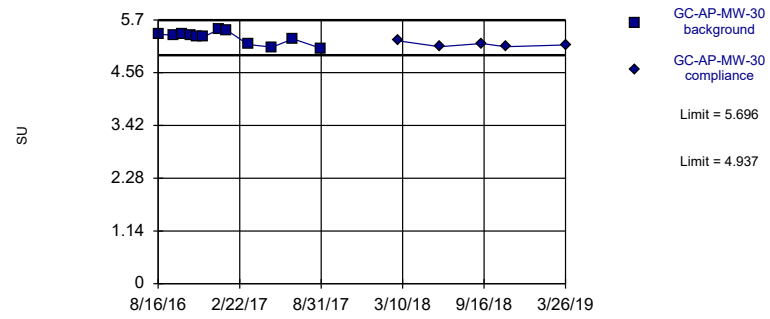
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.317, Std. Dev.=0.131, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.908, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:40 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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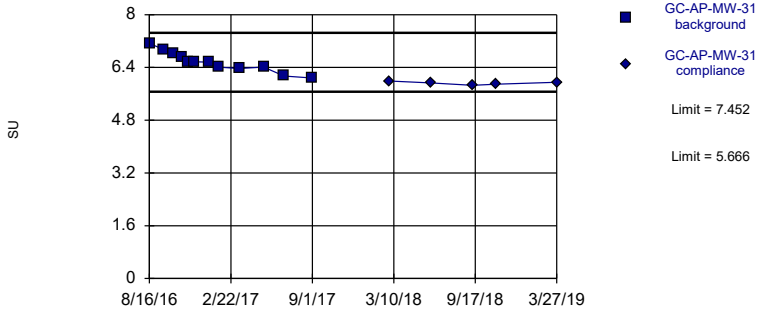
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.559, Std. Dev.=0.3086, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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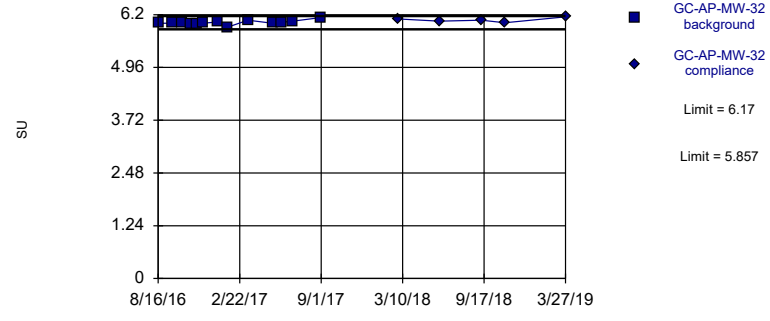
Within Limits

Prediction Limit

Intrawell Parametric



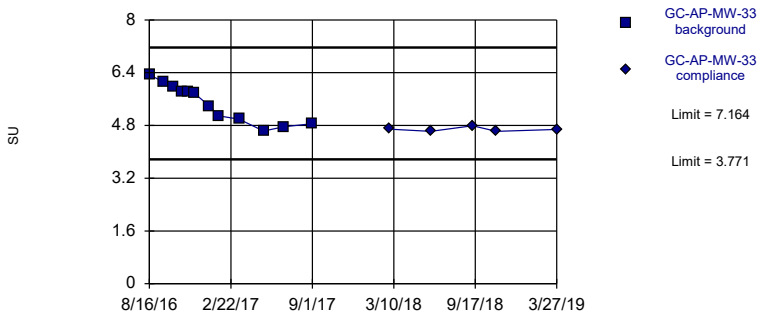
Background Data Summary: Mean=6.013, Std. Dev.=0.05407, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.814. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.468, Std. Dev.=0.5863, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9227, critical = 0.805. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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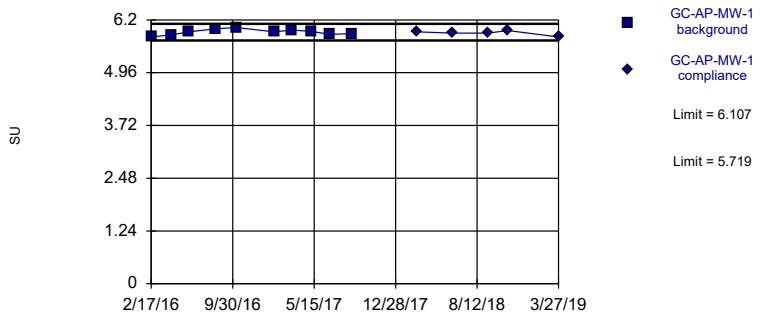
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.913, Std. Dev.=0.06717, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9836, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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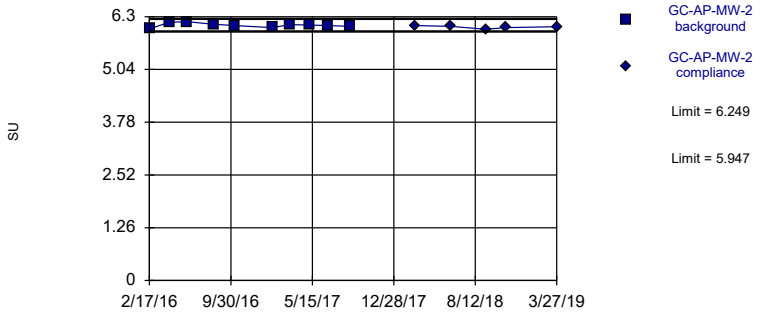
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.098, Std. Dev.=0.05224, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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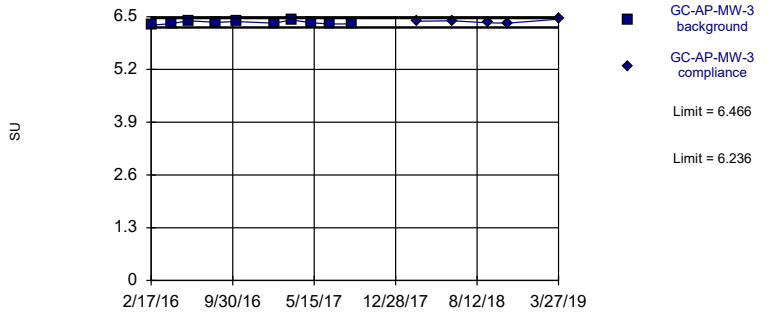
Within Limits

Prediction Limit

Intrawell Parametric



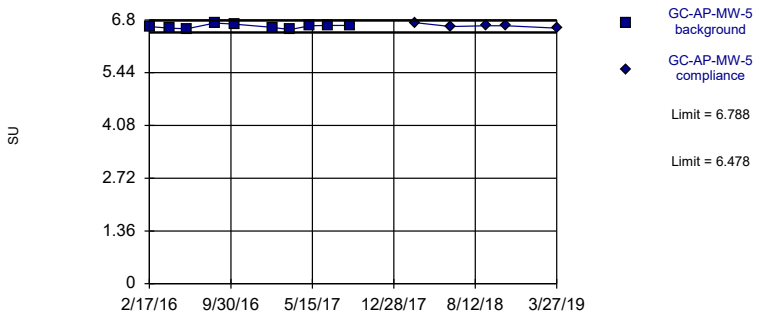
Background Data Summary: Mean=6.351, Std. Dev.=0.03985, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.633, Std. Dev.=0.05355, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.979, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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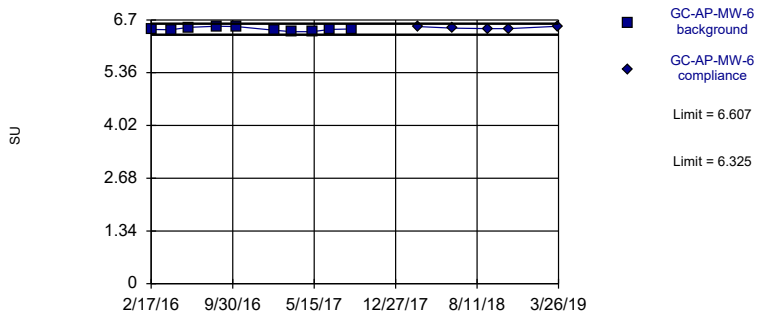
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.466, Std. Dev.=0.04858, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9302, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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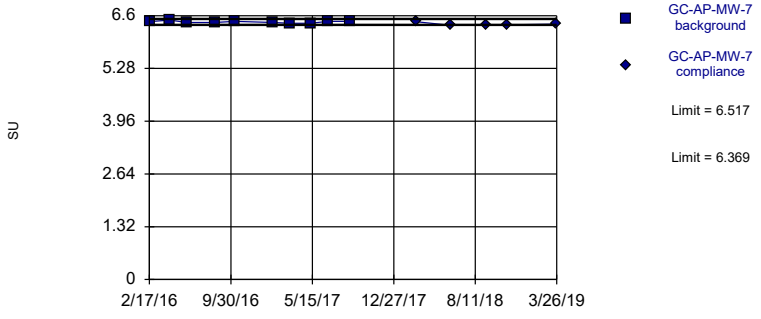
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.443, Std. Dev.=0.02541, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9238, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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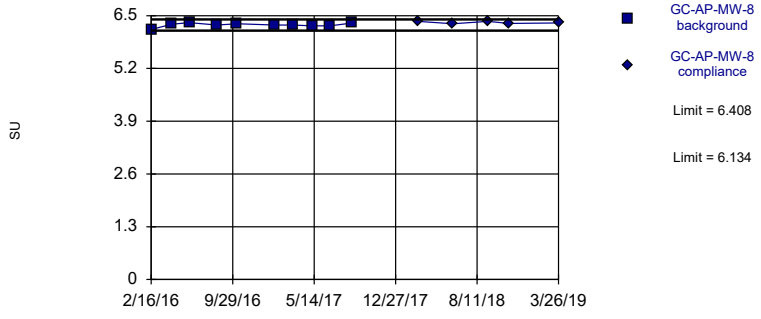
Within Limits

Prediction Limit

Intrawell Parametric



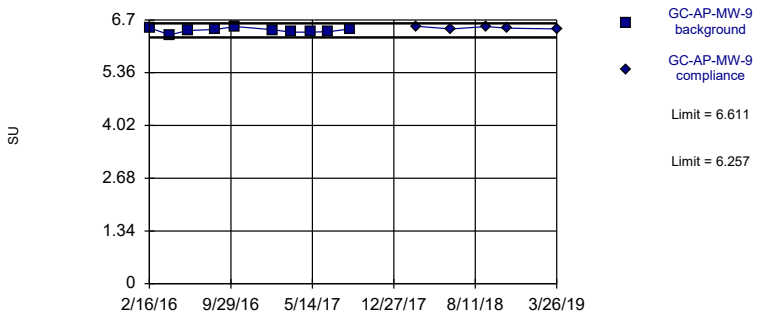
Background Data Summary: Mean=6.271, Std. Dev.=0.04748, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8817, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.434, Std. Dev.=0.06132, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9787, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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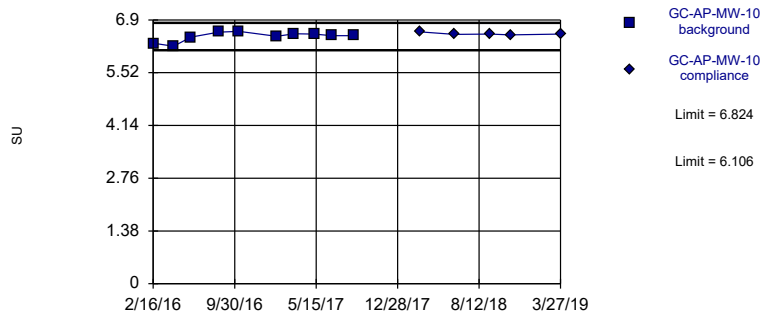
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.465, Std. Dev.=0.124, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8641, critical = 0.781. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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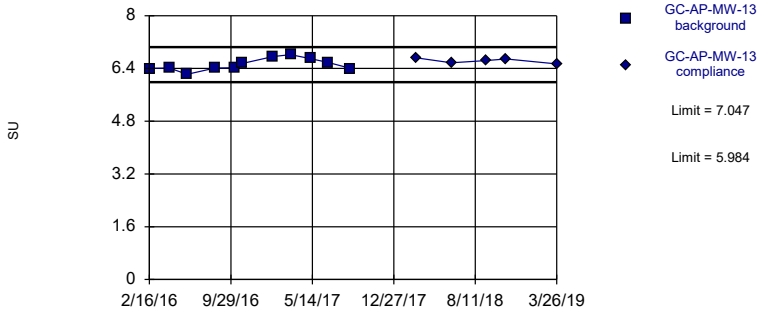
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.515, Std. Dev.=0.1836, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9206, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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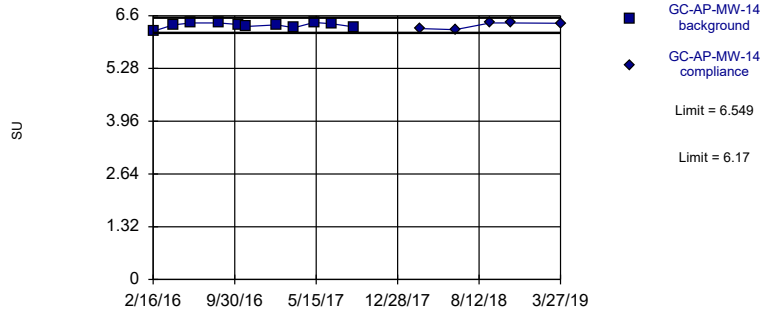
Within Limits

Prediction Limit

Intrawell Parametric



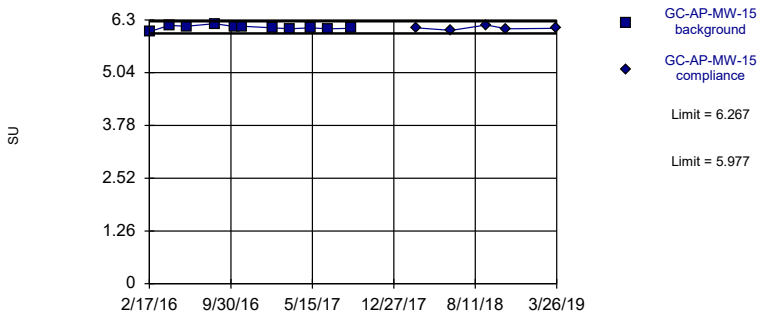
Background Data Summary: Mean=6.359, Std. Dev.=0.06549, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8984, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.122, Std. Dev.=0.05016, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9638, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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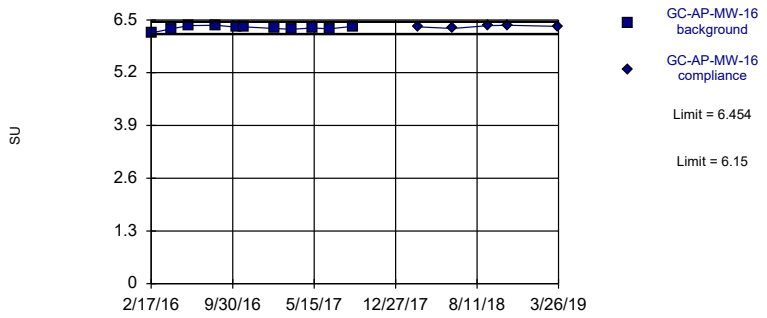
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.302, Std. Dev.=0.0525, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9177, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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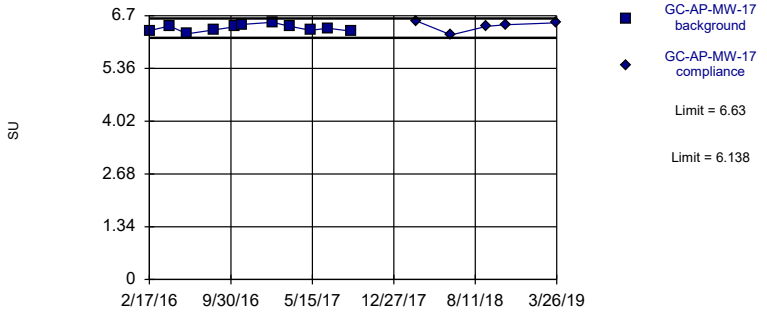
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.384, Std. Dev.=0.085, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9774, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:41 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

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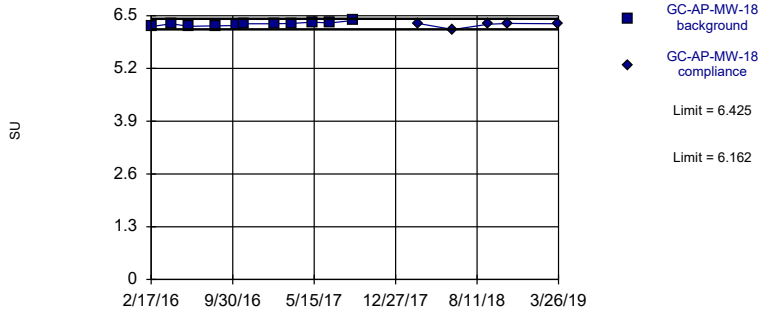
Within Limits

Prediction Limit

Intrawell Parametric



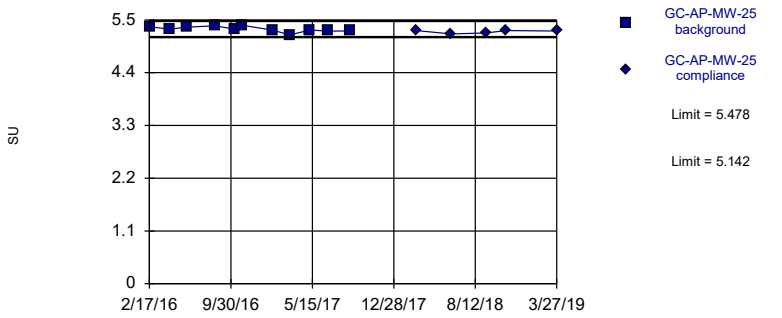
Background Data Summary: Mean=6.294, Std. Dev.=0.04545, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9507, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:42 PM View: PLs - Intrawell
Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.31, Std. Dev.=0.05814, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9457, critical = 0.792. Kappa overridden to 2.894.

Constituent: pH Analysis Run 6/5/2019 2:42 PM View: PLs - Intrawell

Greene County Client: Southern Company Data: Greene County AP

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-11	0.1	n/a	3/27/2019	0.298	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1	n/a	3/26/2019	0.111	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-1	0.1	n/a	3/27/2019	0.488	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1	n/a	3/27/2019	0.138	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1	n/a	3/27/2019	0.502	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1	n/a	3/26/2019	1.63	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1	n/a	3/26/2019	0.727	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1	n/a	3/26/2019	1.81	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1	n/a	3/26/2019	1.14	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1	n/a	3/27/2019	1.11	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1	n/a	3/26/2019	0.213	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1	n/a	3/27/2019	1.33	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1	n/a	3/26/2019	0.699	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1	n/a	3/26/2019	1.38	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1	n/a	3/26/2019	1.74	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1	n/a	3/26/2019	1.63	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1	n/a	3/27/2019	0.113	Yes	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	91.19	n/a	3/27/2019	96.1	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-3	91.19	n/a	3/27/2019	111	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-6	91.19	n/a	3/26/2019	148	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-7	91.19	n/a	3/26/2019	193	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-9	91.19	n/a	3/26/2019	132	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-14	91.19	n/a	3/27/2019	162	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-18	91.19	n/a	3/26/2019	91.5	Yes	91	0	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	7.9	n/a	3/27/2019	14.2	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-12	7.9	n/a	3/26/2019	14.5	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-21	7.9	n/a	3/26/2019	17.2	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-1	7.9	n/a	3/27/2019	18	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-2	7.9	n/a	3/27/2019	14.8	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	7.9	n/a	3/27/2019	24.8	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-5	7.9	n/a	3/27/2019	16.1	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	7.9	n/a	3/26/2019	31.9	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	7.9	n/a	3/26/2019	71	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	7.9	n/a	3/26/2019	39.7	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	7.9	n/a	3/26/2019	25.3	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-10	7.9	n/a	3/27/2019	17.1	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-14	7.9	n/a	3/27/2019	14.9	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-15	7.9	n/a	3/26/2019	12.8	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-16	7.9	n/a	3/26/2019	9.27	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-17	7.9	n/a	3/26/2019	9.52	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	7.9	n/a	3/26/2019	25.4	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-25	7.9	n/a	3/27/2019	18.4	Yes	91	5.495	n/a	0.000229	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-16	0.31	n/a	3/26/2019	0.316	Yes	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.31	n/a	3/26/2019	0.573	Yes	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	3/27/2019	1090	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/27/2019	375	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/26/2019	120	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/26/2019	430	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/26/2019	138	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	3/27/2019	335	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/26/2019	158	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	3/26/2019	123	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	3/26/2019	161	Yes	91	26.37	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-11	174	n/a	3/27/2019	211	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-12	174	n/a	3/26/2019	230	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-21	174	n/a	3/26/2019	218	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-1	174	n/a	3/27/2019	1910	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-2	174	n/a	3/27/2019	562	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-3	174	n/a	3/27/2019	362	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-5	174	n/a	3/27/2019	328	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-6	174	n/a	3/26/2019	682	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-7	174	n/a	3/26/2019	1100	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-8	174	n/a	3/26/2019	546	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-9	174	n/a	3/26/2019	586	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-10	174	n/a	3/27/2019	347	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-13	174	n/a	3/26/2019	198	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-14	174	n/a	3/27/2019	834	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-15	174	n/a	3/26/2019	342	Yes	91	16.48	n/a	0.000229	NP Inter (normality) ...

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**3/26/2019**	**481**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**3/26/2019**	**516**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**3/26/2019**	**406**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**3/27/2019**	**178**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	**GC-AP-MW-11**	**0.1**	**n/a**	**3/27/2019**	**0.298**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-12**	**0.1**	**n/a**	**3/26/2019**	**0.111**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-21	0.1	n/a	3/26/2019	0.0834	No	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1	n/a	3/27/2019	0.1ND	No	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1	n/a	3/27/2019	0.1ND	No	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1	n/a	3/27/2019	0.1ND	No	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-1**	**0.1**	**n/a**	**3/27/2019**	**0.488**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-2**	**0.1**	**n/a**	**3/27/2019**	**0.138**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-3	0.1	n/a	3/27/2019	0.0316	No	84	90.48	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-5**	**0.1**	**n/a**	**3/27/2019**	**0.502**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-6**	**0.1**	**n/a**	**3/26/2019**	**1.63**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-7**	**0.1**	**n/a**	**3/26/2019**	**0.727**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-8**	**0.1**	**n/a**	**3/26/2019**	**1.81**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-9**	**0.1**	**n/a**	**3/26/2019**	**1.14**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-10**	**0.1**	**n/a**	**3/27/2019**	**1.11**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-13**	**0.1**	**n/a**	**3/26/2019**	**0.213**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-14**	**0.1**	**n/a**	**3/27/2019**	**1.33**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-15**	**0.1**	**n/a**	**3/26/2019**	**0.699**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-16**	**0.1**	**n/a**	**3/26/2019**	**1.38**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-17**	**0.1**	**n/a**	**3/26/2019**	**1.74**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-18**	**0.1**	**n/a**	**3/26/2019**	**1.63**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-25**	**0.1**	**n/a**	**3/27/2019**	**0.113**	**Yes**	**84**	**90.48**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	GC-AP-MW-11	91.19	n/a	3/27/2019	31	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-12	91.19	n/a	3/26/2019	33.7	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-21	91.19	n/a	3/26/2019	32.4	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-31	91.19	n/a	3/27/2019	7.65	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-32	91.19	n/a	3/27/2019	11.7	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-33	91.19	n/a	3/27/2019	2.75	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-1	91.19	n/a	3/27/2019	73.8	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	**GC-AP-MW-2**	**91.19**	**n/a**	**3/27/2019**	**96.1**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	**GC-AP-MW-3**	**91.19**	**n/a**	**3/27/2019**	**111**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	GC-AP-MW-5	91.19	n/a	3/27/2019	69.1	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	**GC-AP-MW-6**	**91.19**	**n/a**	**3/26/2019**	**148**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	**GC-AP-MW-7**	**91.19**	**n/a**	**3/26/2019**	**193**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	GC-AP-MW-8	91.19	n/a	3/26/2019	72	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	**GC-AP-MW-9**	**91.19**	**n/a**	**3/26/2019**	**132**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	GC-AP-MW-10	91.19	n/a	3/27/2019	71.8	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-13	91.19	n/a	3/26/2019	34.1	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	**GC-AP-MW-14**	**91.19**	**n/a**	**3/27/2019**	**162**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	GC-AP-MW-15	91.19	n/a	3/26/2019	53.9	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-16	91.19	n/a	3/26/2019	90	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	GC-AP-MW-17	91.19	n/a	3/26/2019	84.7	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Calcium (mg/L)	**GC-AP-MW-18**	**91.19**	**n/a**	**3/26/2019**	**91.5**	**Yes**	**91**	**0**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Calcium (mg/L)	GC-AP-MW-25	91.19	n/a	3/27/2019	9.77	No	91	0	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	**GC-AP-MW-11**	**7.9**	**n/a**	**3/27/2019**	**14.2**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-12**	**7.9**	**n/a**	**3/26/2019**	**14.5**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-21**	**7.9**	**n/a**	**3/26/2019**	**17.2**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	GC-AP-MW-31	7.9	n/a	3/27/2019	5.26	No	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-32	7.9	n/a	3/27/2019	3.86	No	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-33	7.9	n/a	3/27/2019	4.33	No	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	**GC-AP-MW-1**	**7.9**	**n/a**	**3/27/2019**	**18**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-2**	**7.9**	**n/a**	**3/27/2019**	**14.8**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-3**	**7.9**	**n/a**	**3/27/2019**	**24.8**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-5**	**7.9**	**n/a**	**3/27/2019**	**16.1**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-6**	**7.9**	**n/a**	**3/26/2019**	**31.9**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-7**	**7.9**	**n/a**	**3/26/2019**	**71**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-8**	**7.9**	**n/a**	**3/26/2019**	**39.7**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-9**	**7.9**	**n/a**	**3/26/2019**	**25.3**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-10**	**7.9**	**n/a**	**3/27/2019**	**17.1**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	GC-AP-MW-13	7.9	n/a	3/26/2019	4.7	No	91	5.495	n/a	0.000229	NP Inter (normality) ...
Chloride (mg/L)	**GC-AP-MW-14**	**7.9**	**n/a**	**3/27/2019**	**14.9**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-15**	**7.9**	**n/a**	**3/26/2019**	**12.8**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-16**	**7.9**	**n/a**	**3/26/2019**	**9.27**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-17**	**7.9**	**n/a**	**3/26/2019**	**9.52**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-18**	**7.9**	**n/a**	**3/26/2019**	**25.4**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-25**	**7.9**	**n/a**	**3/27/2019**	**18.4**	**Yes**	**91**	**5.495**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Fluoride (mg/L)	GC-AP-MW-11	0.31	n/a	3/27/2019	0.104	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.31	n/a	3/26/2019	0.196	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/5/2019, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-21	0.31	n/a	3/26/2019	0.219	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.31	n/a	3/27/2019	0.1ND	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.31	n/a	3/27/2019	0.1ND	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.31	n/a	3/27/2019	0.1ND	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.31	n/a	3/27/2019	0.192	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.31	n/a	3/27/2019	0.089	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.31	n/a	3/27/2019	0.13	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.31	n/a	3/27/2019	0.208	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.31	n/a	3/26/2019	0.253	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.31	n/a	3/26/2019	0.106	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.31	n/a	3/26/2019	0.162	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.31	n/a	3/26/2019	0.223	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.31	n/a	3/27/2019	0.206	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.31	n/a	3/26/2019	0.0775	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.31	n/a	3/27/2019	0.248	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.31	n/a	3/26/2019	0.119	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-16**	**0.31**	**n/a**	**3/26/2019**	**0.316**	**Yes**	**91**	**59.34**	**n/a**	**0.000229**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-17**	**0.31**	**n/a**	**3/26/2019**	**0.573**	**Yes**	**91**	**59.34**	**n/a**	**0.000229**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-18	0.31	n/a	3/26/2019	0.192	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.31	n/a	3/27/2019	0.1ND	No	91	59.34	n/a	0.000229	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/27/2019	83.2	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/26/2019	92.3	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/26/2019	92	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	3/27/2019	3.55	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	3/27/2019	3.22	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	3/27/2019	15.1	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-1**	**103**	**n/a**	**3/27/2019**	**1090**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-2**	**103**	**n/a**	**3/27/2019**	**375**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	3/27/2019	6.64	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	3/27/2019	33.4	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**3/26/2019**	**120**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**3/26/2019**	**430**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	3/26/2019	21.6	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**3/26/2019**	**138**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	3/27/2019	66.2	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	3/26/2019	92.4	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**3/27/2019**	**335**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**3/26/2019**	**158**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-16**	**103**	**n/a**	**3/26/2019**	**123**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-17**	**103**	**n/a**	**3/26/2019**	**161**	**Yes**	**91**	**26.37**	**n/a**	**0.000229**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	3/26/2019	21.3	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	3/27/2019	62.4	No	91	26.37	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**3/27/2019**	**211**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**3/26/2019**	**230**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**3/26/2019**	**218**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	GC-AP-MW-31	174	n/a	3/27/2019	48.7	No	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-32	174	n/a	3/27/2019	56	No	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-33	174	n/a	3/27/2019	65.3	No	91	16.48	n/a	0.000229	NP Inter (normality) ...
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**3/27/2019**	**1910**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**3/27/2019**	**562**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**3/27/2019**	**362**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**3/27/2019**	**328**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**3/26/2019**	**682**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**3/26/2019**	**1100**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**3/26/2019**	**546**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**3/26/2019**	**586**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**3/27/2019**	**347**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**3/26/2019**	**198**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**3/27/2019**	**834**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**3/26/2019**	**342**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**3/26/2019**	**481**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**3/26/2019**	**516**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**3/26/2019**	**406**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**3/27/2019**	**178**	**Yes**	**91**	**16.48**	**n/a**	**0.000229**	**NP Inter (normality) ...**

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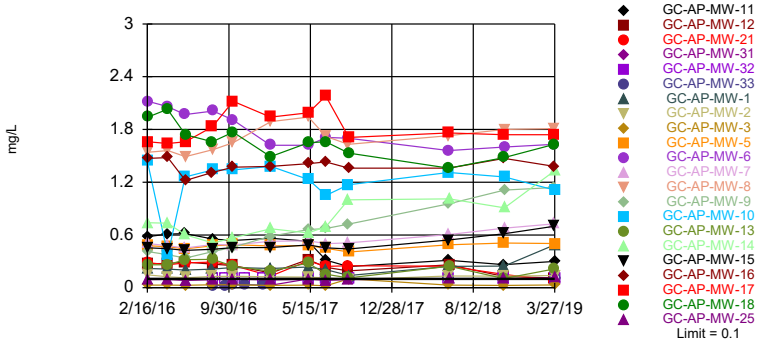
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-1, GC-AP-MW-2, GC-AP-M

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 90.48% NDs. Annual per-constituent alpha = 0.01176. Individual comparison alpha = 0.0002688 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 6/5/2019 2:37 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

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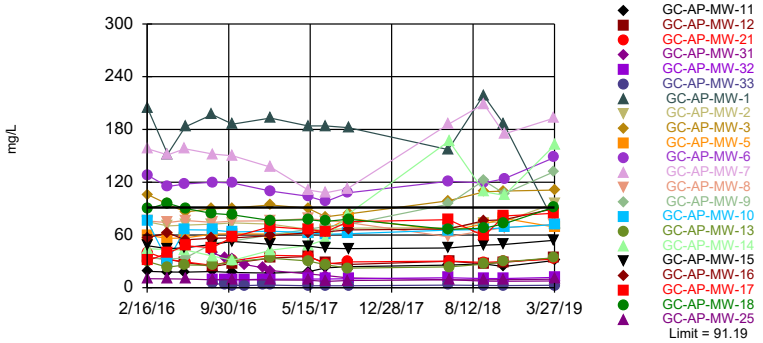
Exceeds Limit: GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=1.168, Std. Dev.=1.551, n=91. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9673, critical = 0.962. Kappa = 2.157 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Calcium Analysis Run 6/5/2019 2:37 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

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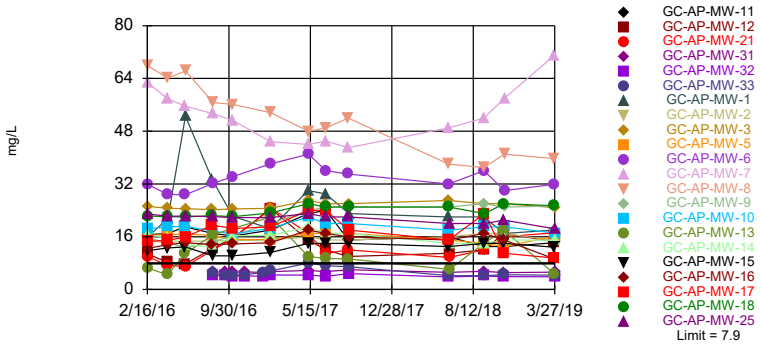
Exceeds Limit: GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-21, GC-AP-MW-1,...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 5.495% NDs. Annual per-constituent alpha = 0.01003. Individual comparison alpha = 0.000229 (1 of 2). Comparing 22 points to limit.

Constituent: Chloride Analysis Run 6/5/2019 2:38 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

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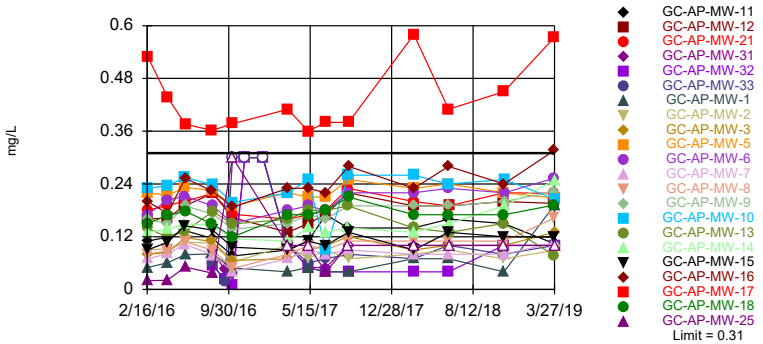
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-16, GC-AP-MW-17

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 59.34% NDs. Annual per-constituent alpha = 0.01003. Individual comparison alpha = 0.000229 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 6/5/2019 2:38 PM View: PLs - Interwell
Greene County Client: Southern Company Data: Greene County AP

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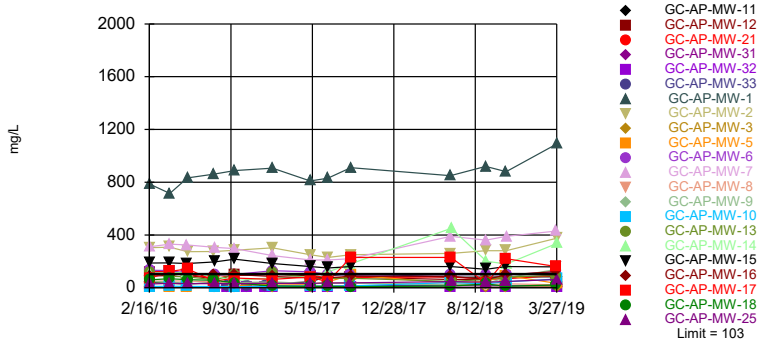
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 26.37% NDs. Annual per-constituent alpha = 0.01003. Individual comparison alpha = 0.000229 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 6/5/2019 2:38 PM View: PLs - Interwell

Greene County Client: Southern Company Data: Greene County AP

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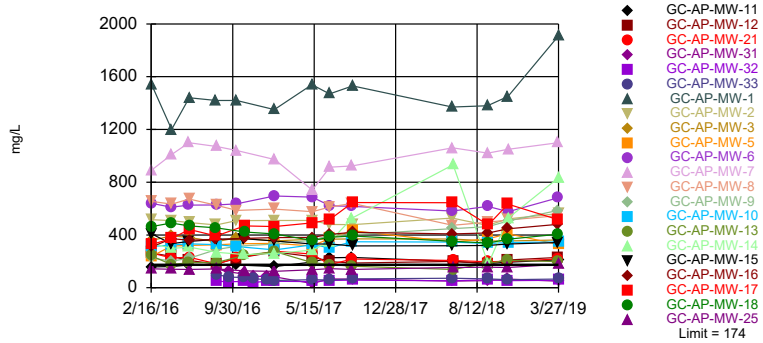
Exceeds Limit: GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-21, GC-AP-MW-1...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 16.48% NDs. Annual per-constituent alpha = 0.01003. Individual comparison alpha = 0.000229 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 6/5/2019 2:38 PM View: PLs - Interwell

Greene County Client: Southern Company Data: Greene County AP

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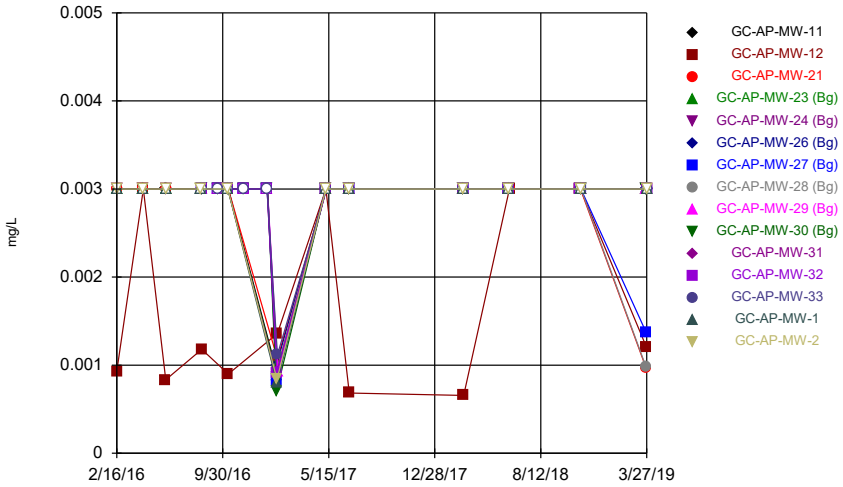
Time Series



Constituent: Antimony Analysis Run 6/3/2019 4:05 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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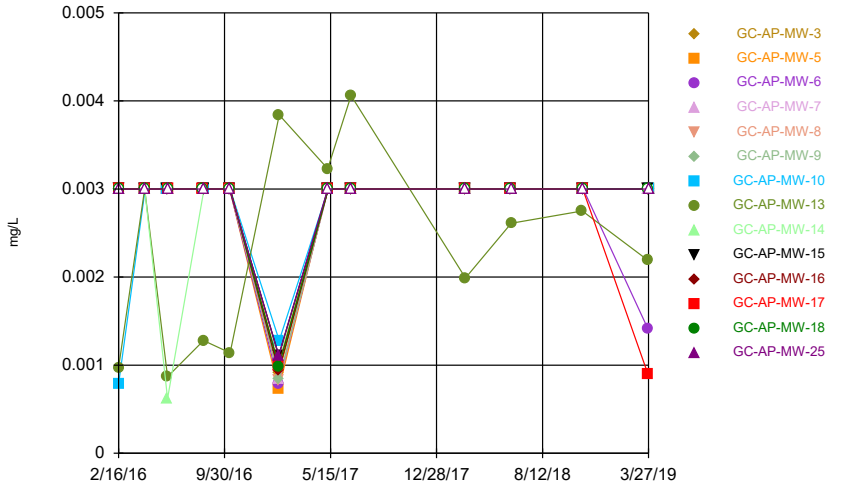
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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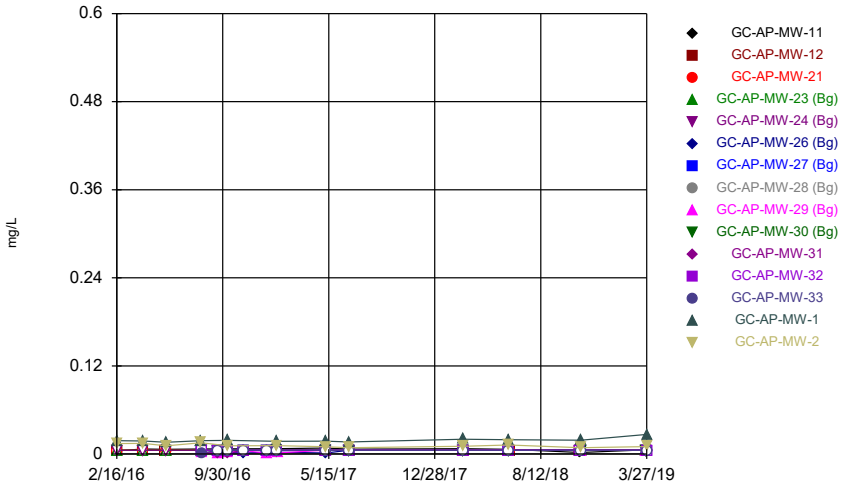
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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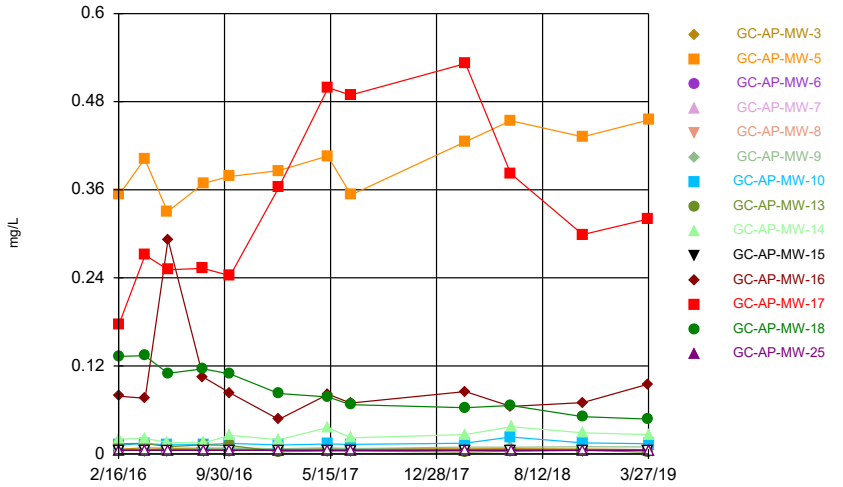
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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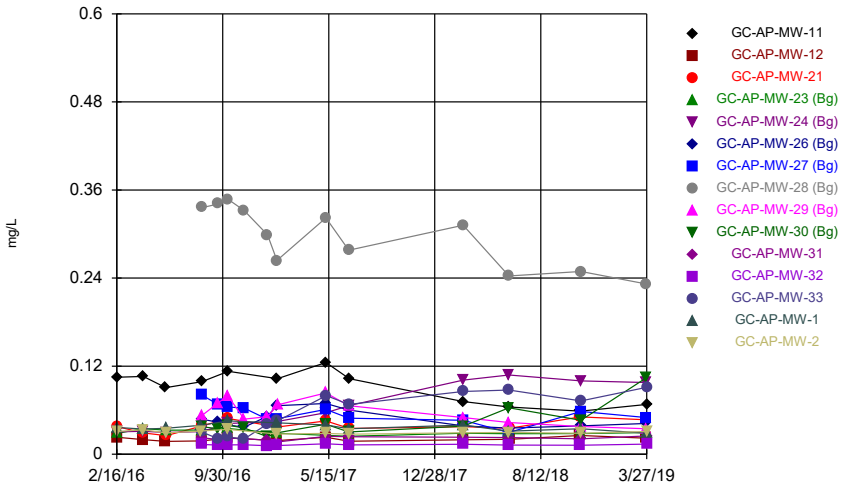
Time Series



Constituent: Barium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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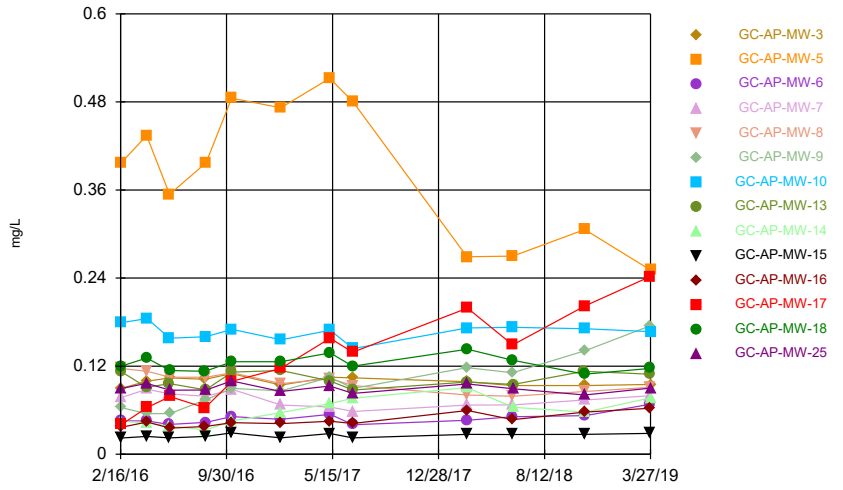
Time Series



Constituent: Barium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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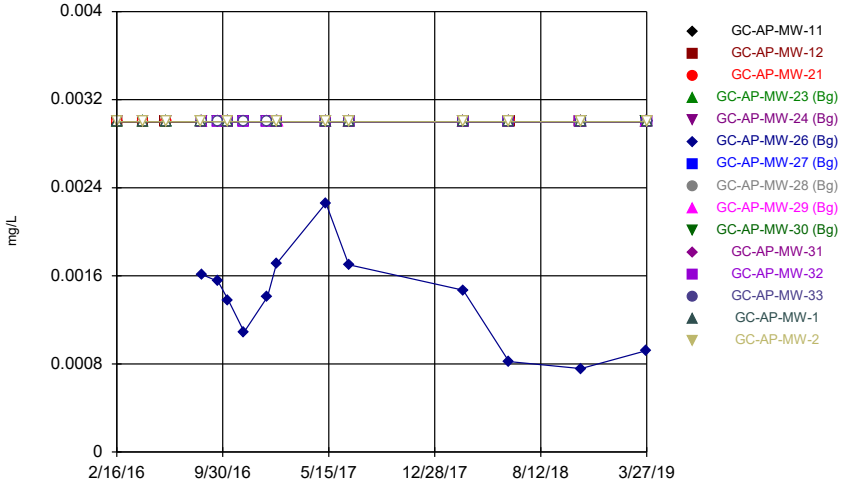
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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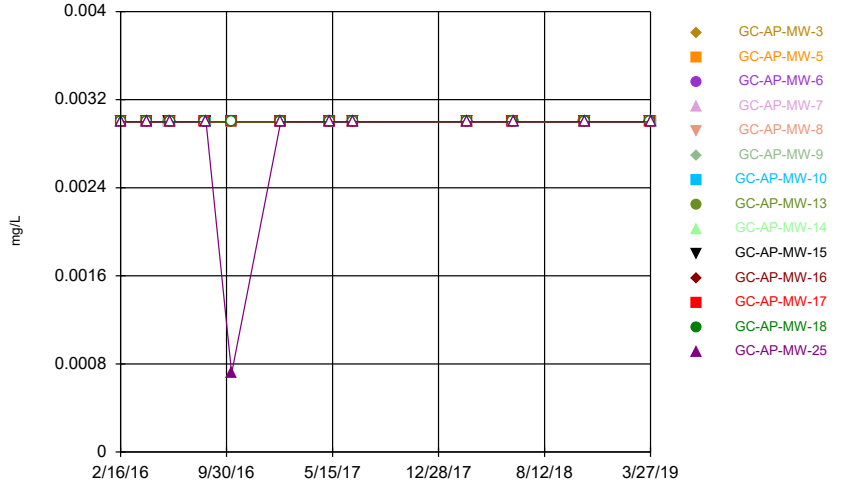
Hollow symbols indicate censored values.

Time Series

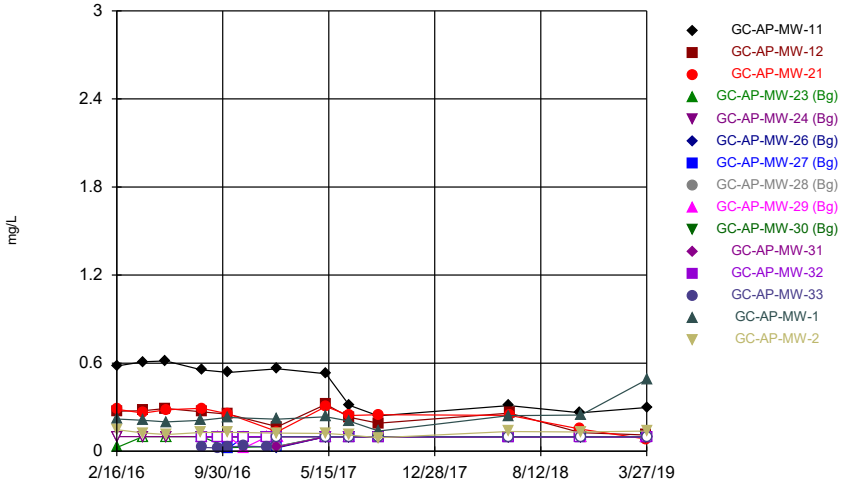


Constituent: Beryllium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

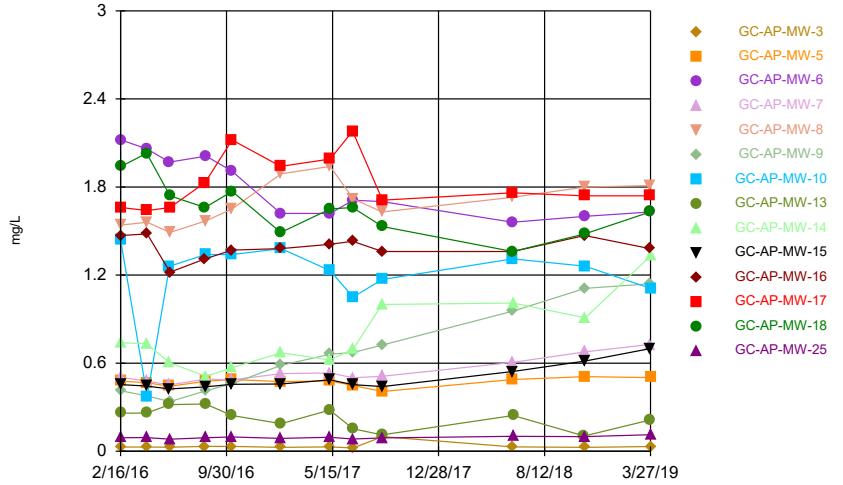
Time Series



Constituent: Boron Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

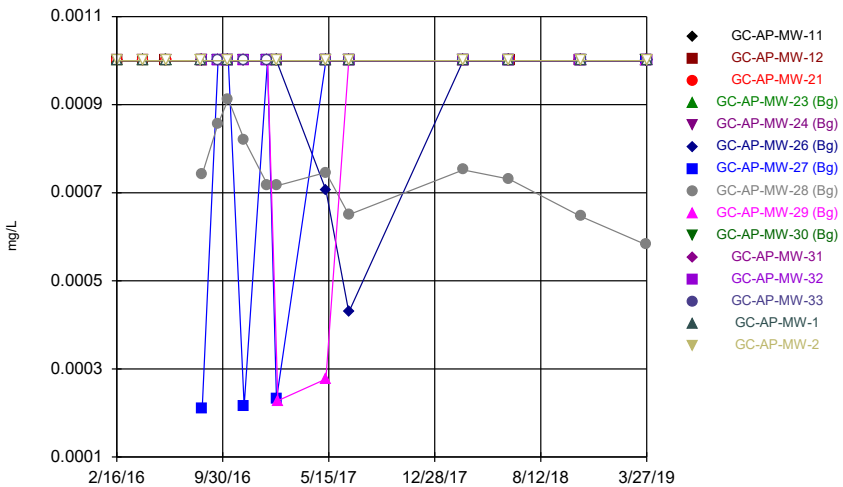
Time Series



Constituent: Boron Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

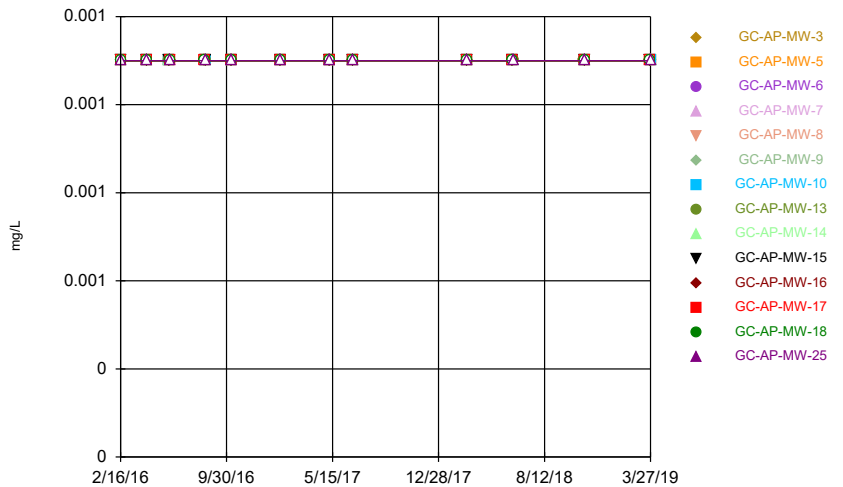
Time Series



Constituent: Cadmium Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

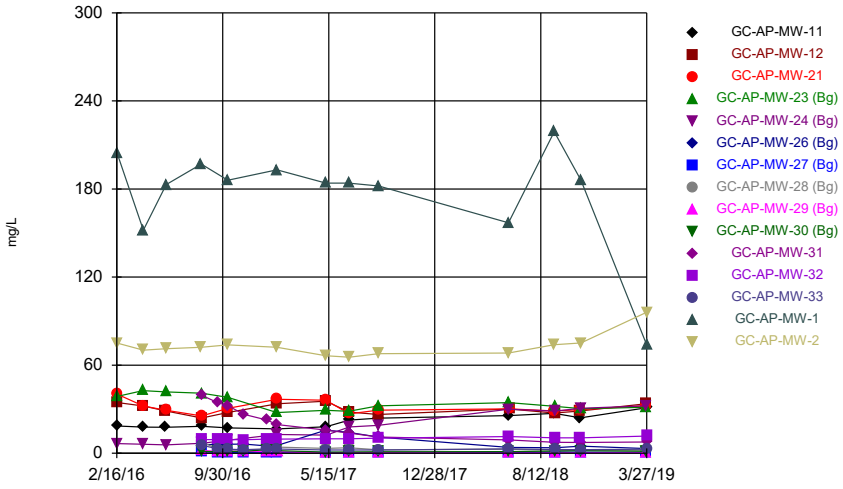
Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

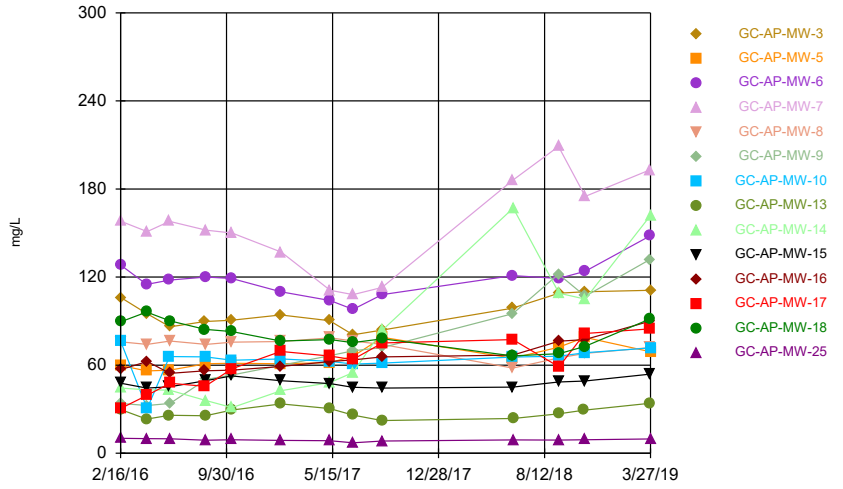


Constituent: Calcium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Time Series

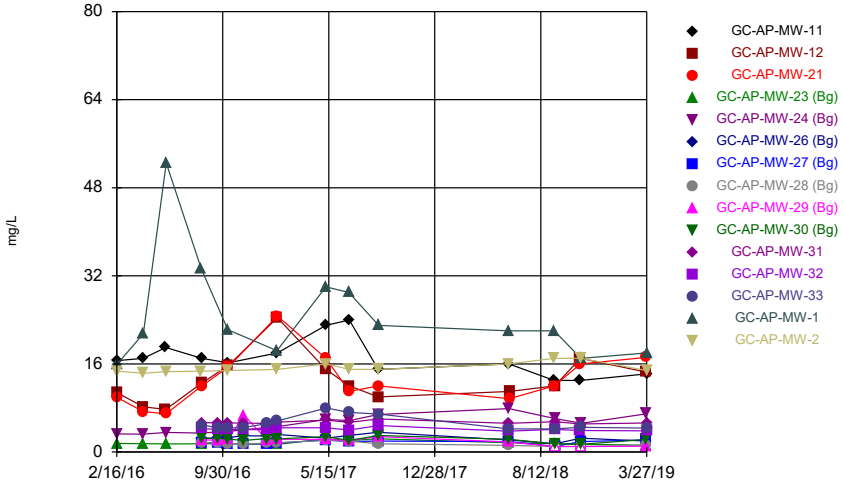


Constituent: Calcium Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series

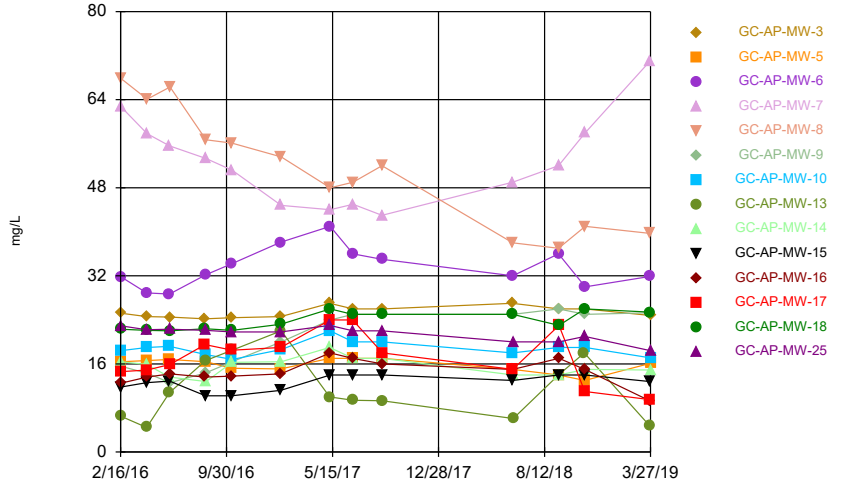


Constituent: Chloride Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Time Series

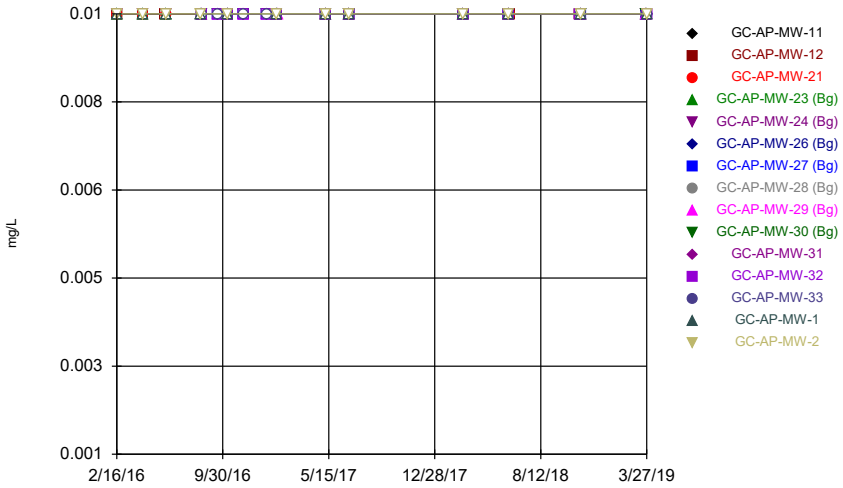


Constituent: Chloride Analysis Run 6/3/2019 4:06 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

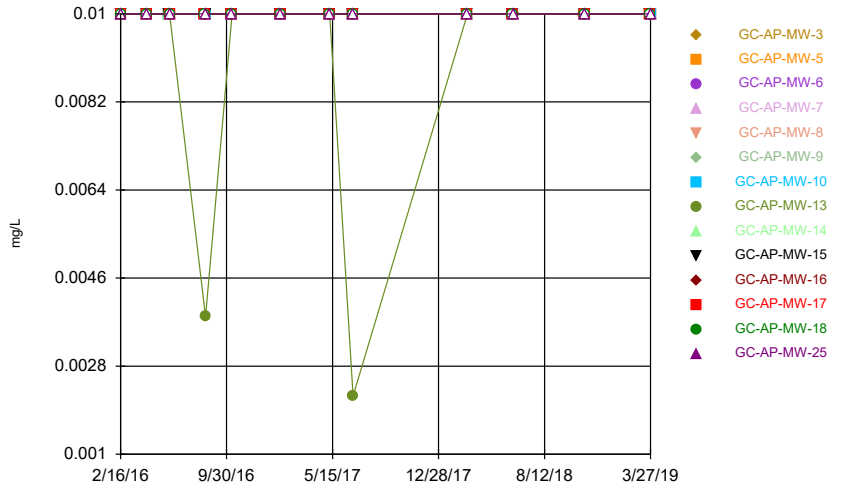
Time Series



Constituent: Chromium Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

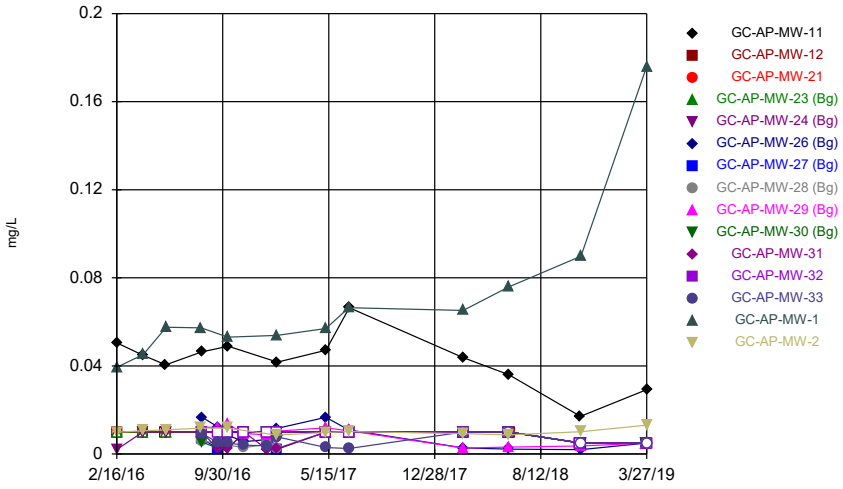
Time Series



Constituent: Chromium Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

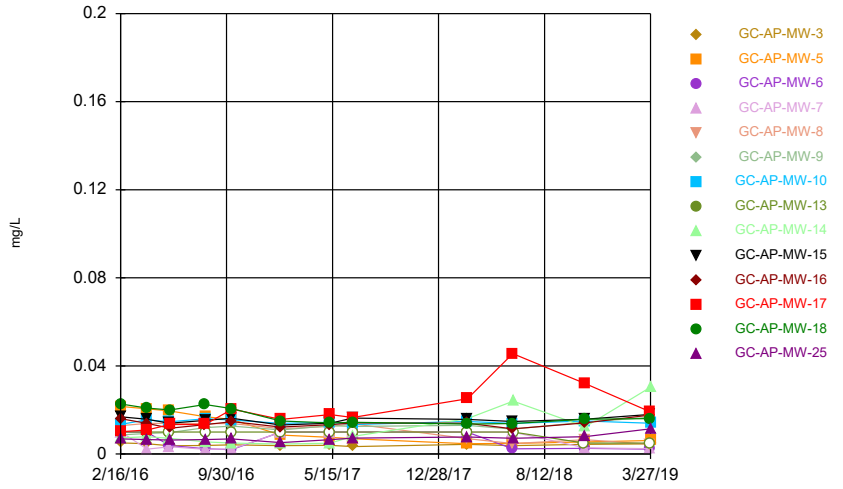
Time Series



Constituent: Cobalt Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

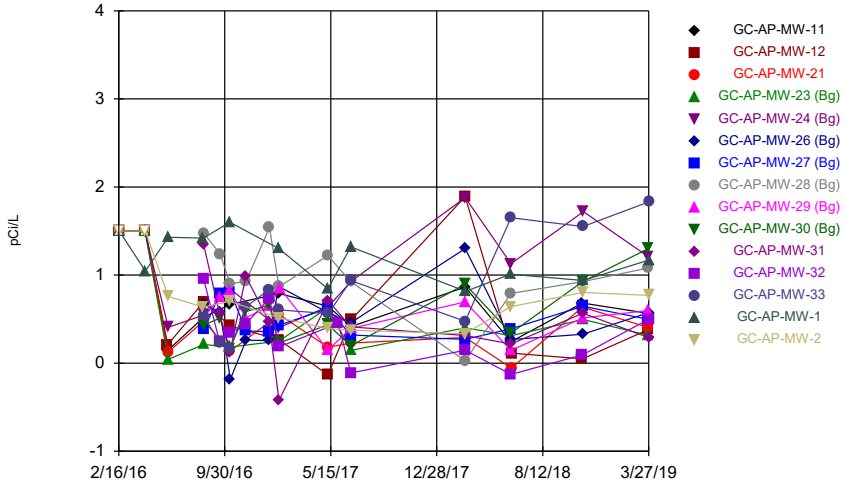
Time Series



Constituent: Cobalt Analysis Run 6/3/2019 4:06 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

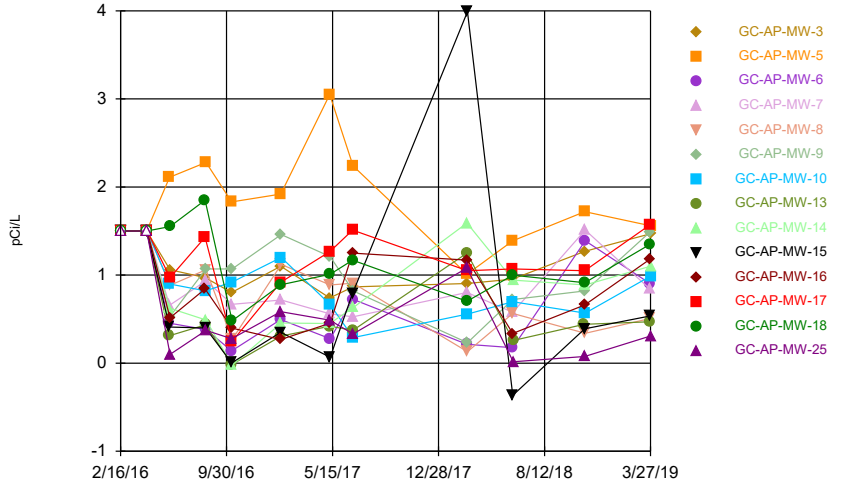
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

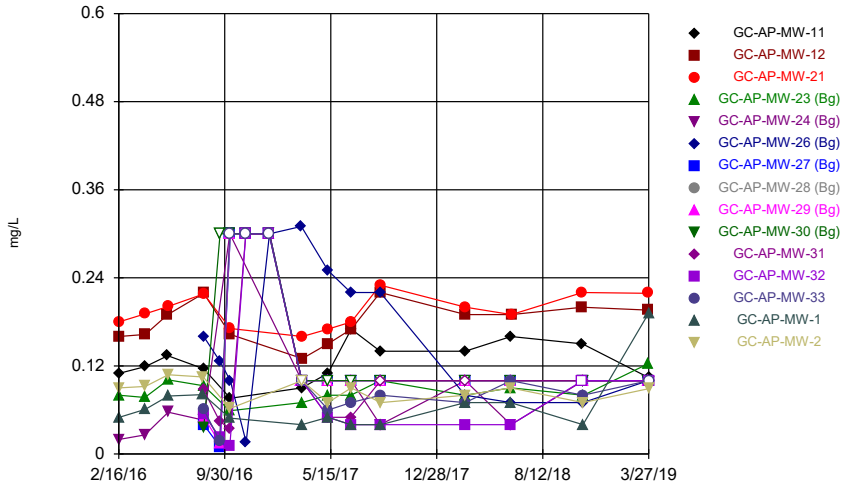
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

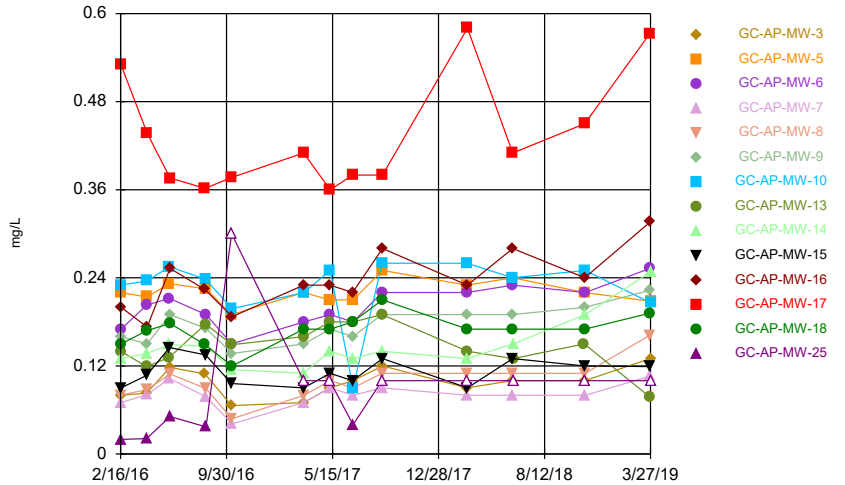
Time Series



Constituent: Fluoride Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

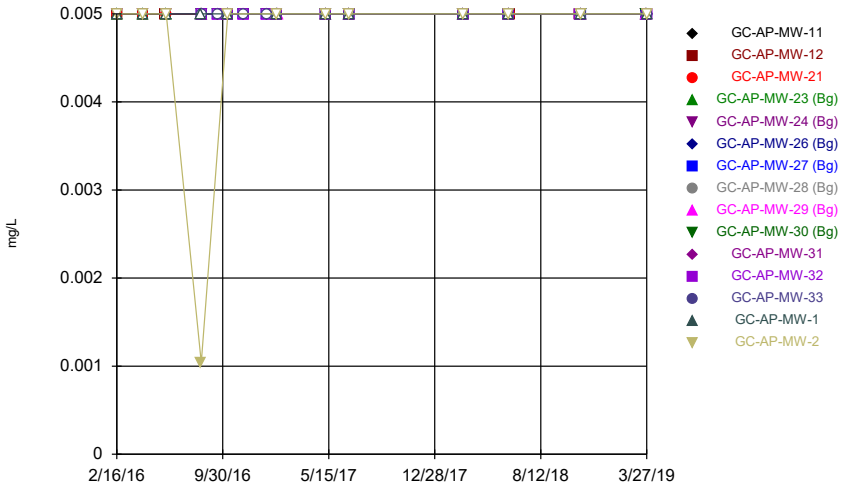
Time Series



Constituent: Fluoride Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

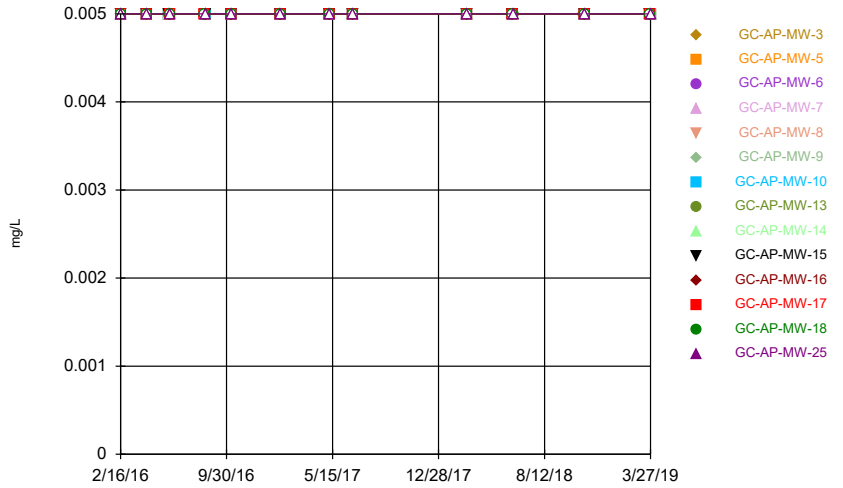
Time Series



Constituent: Lead Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

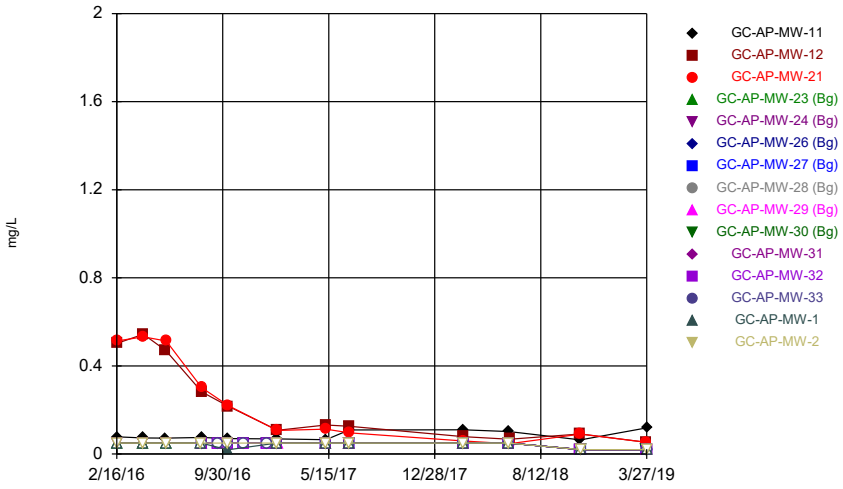
Time Series



Constituent: Lead Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

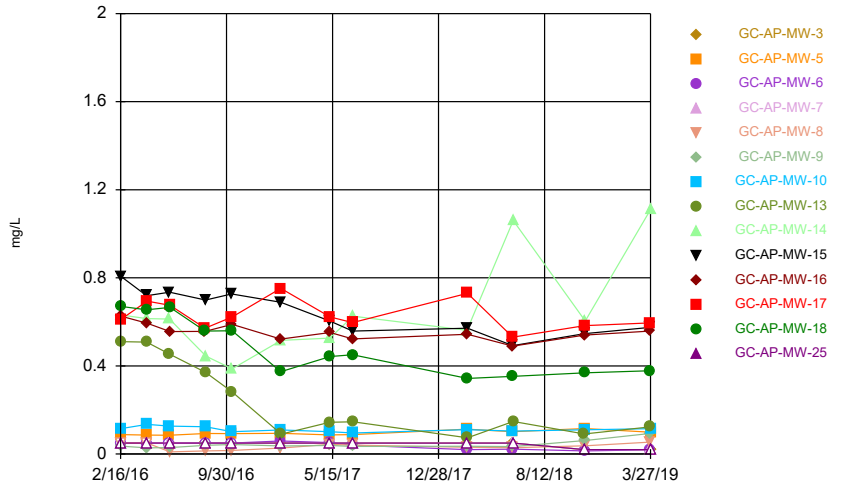
Time Series



Constituent: Lithium Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

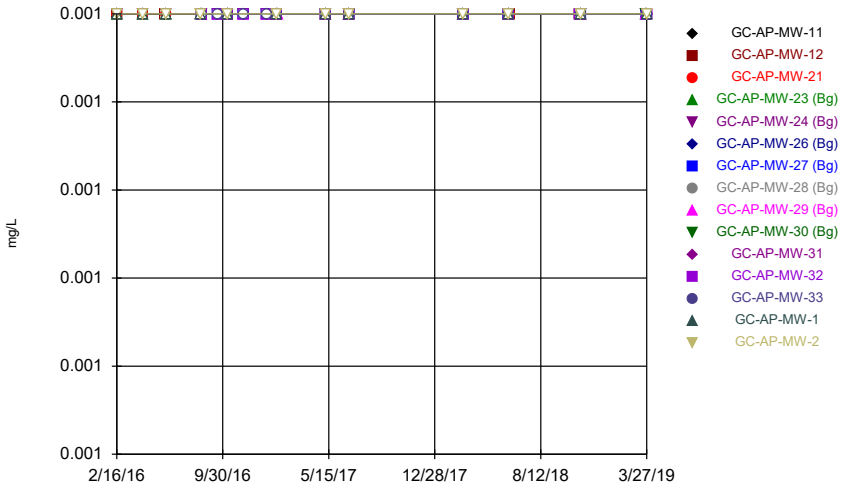
Time Series



Constituent: Lithium Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

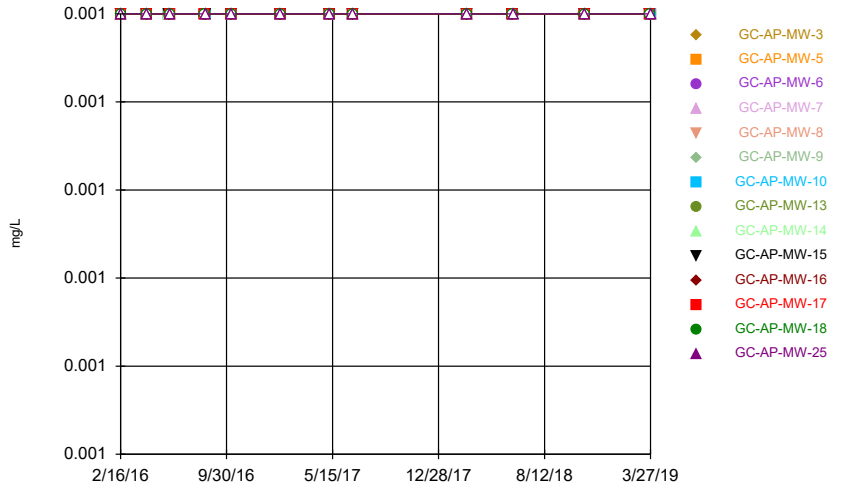
Time Series



Constituent: Mercury Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

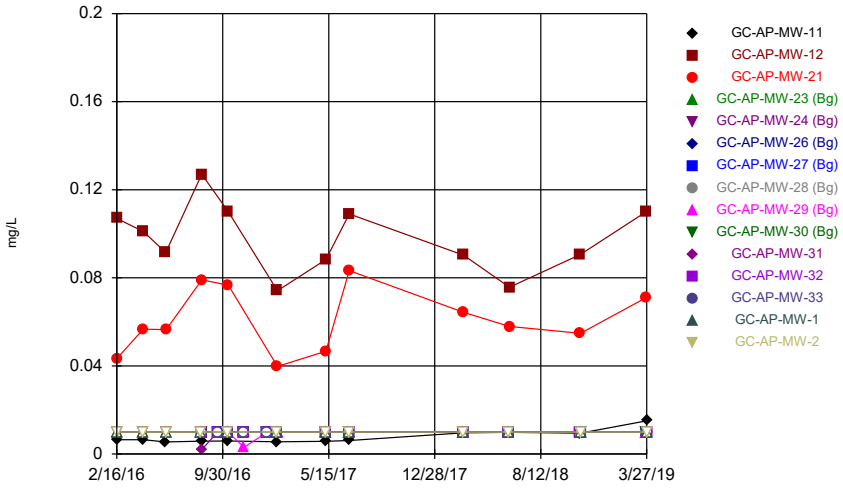
Time Series



Constituent: Mercury Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

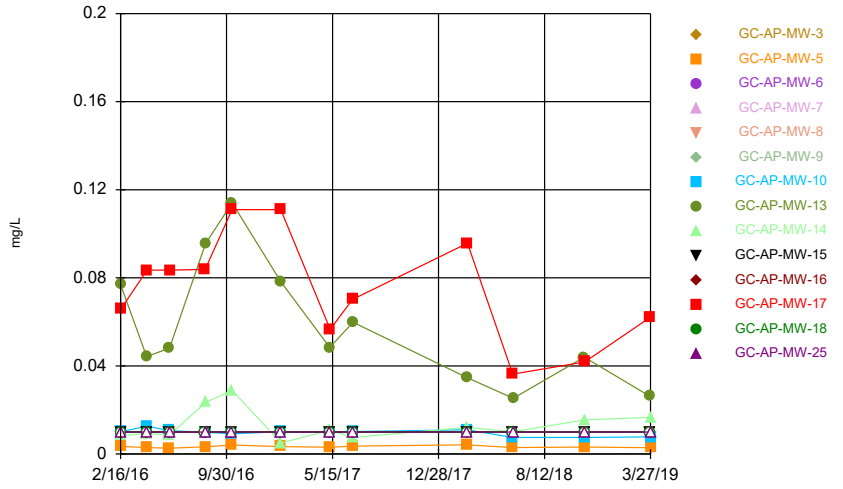
Time Series



Constituent: Molybdenum Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

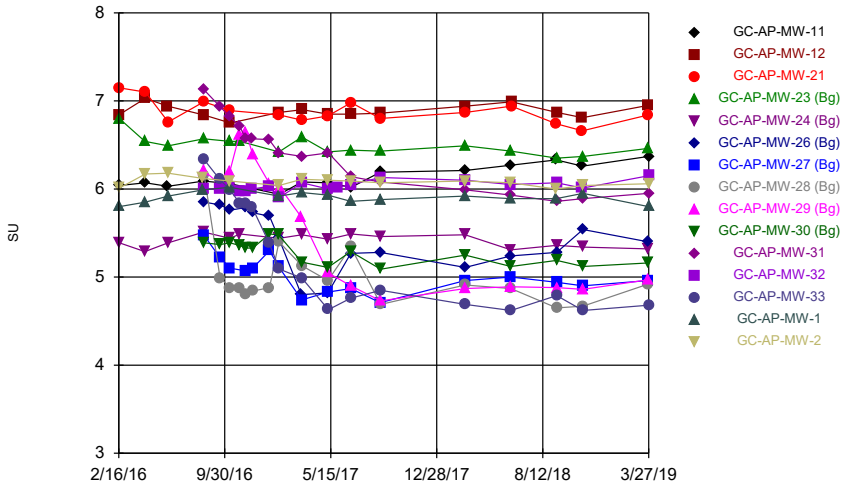
Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

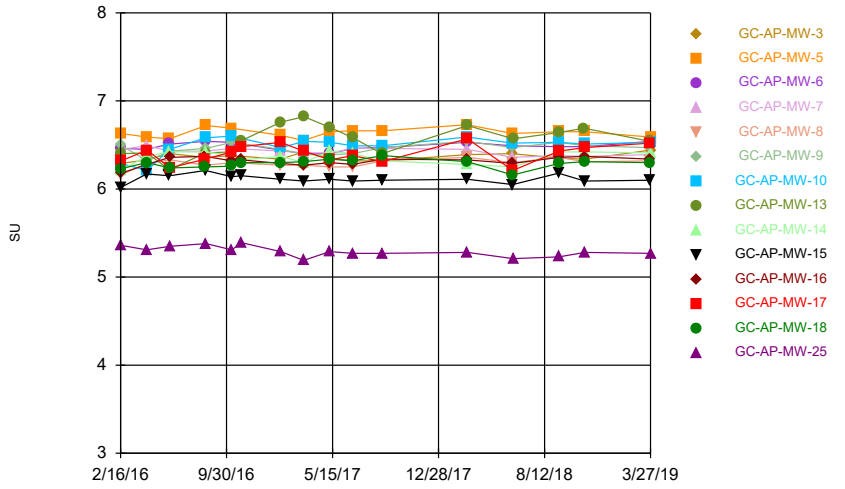
Time Series



Constituent: pH Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

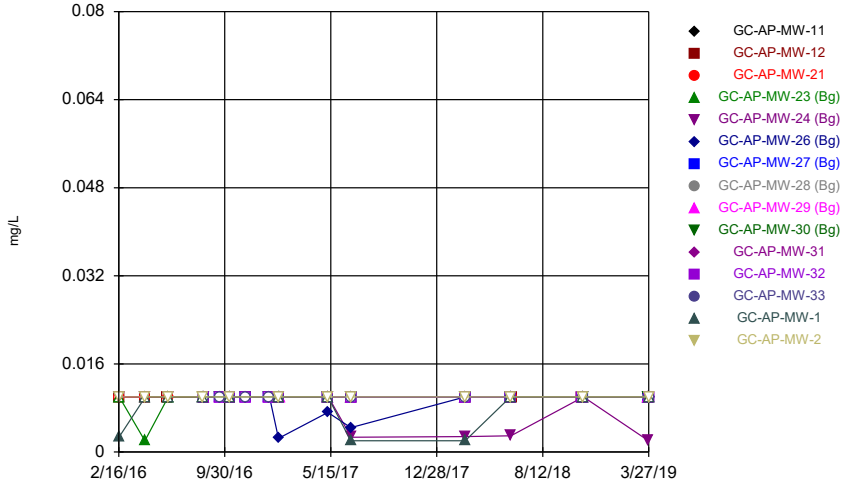
Time Series



Constituent: pH Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

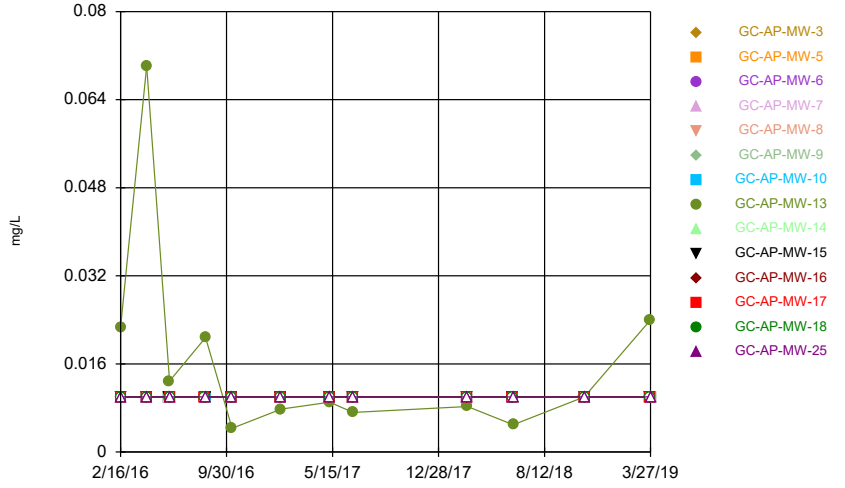
Time Series



Constituent: Selenium Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

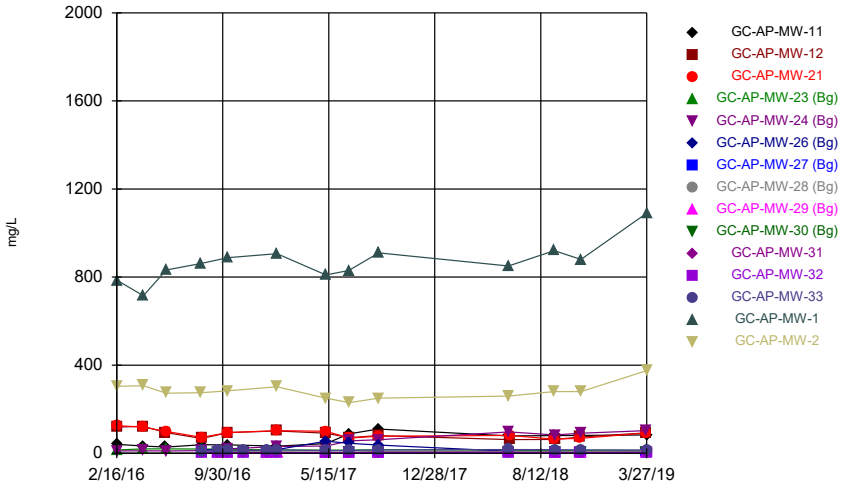
Time Series



Constituent: Selenium Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

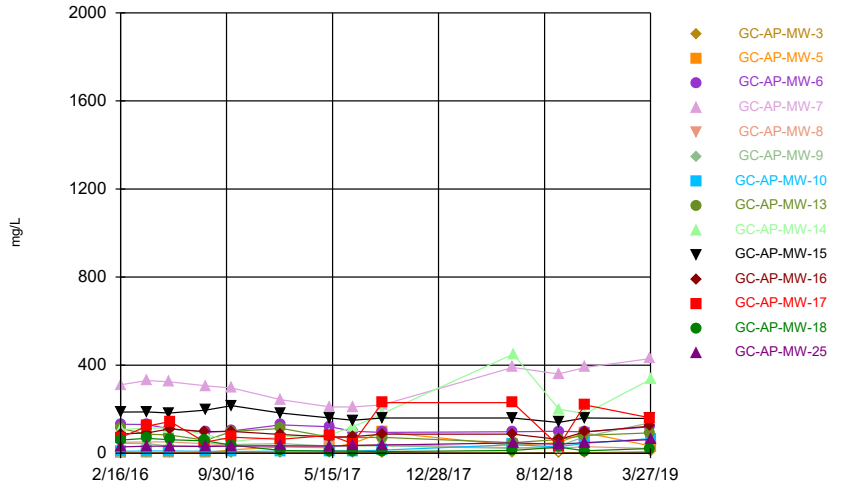
Time Series



Constituent: Sulfate Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

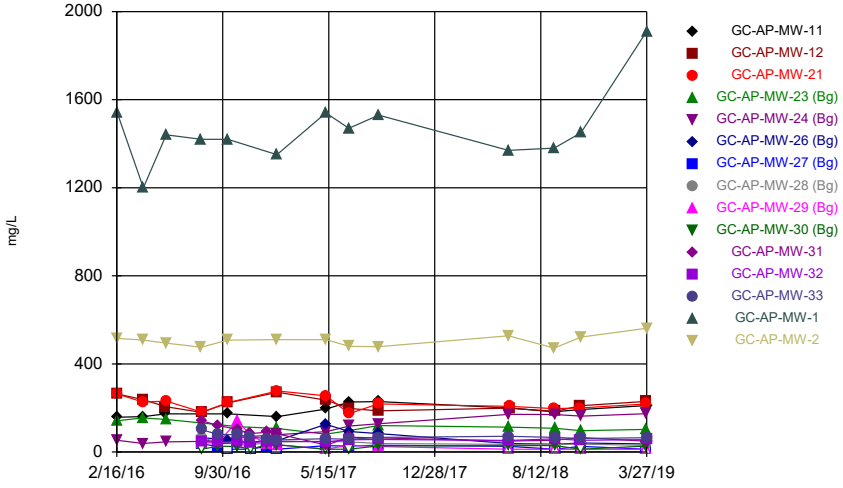
Time Series



Constituent: Sulfate Analysis Run 6/3/2019 4:07 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

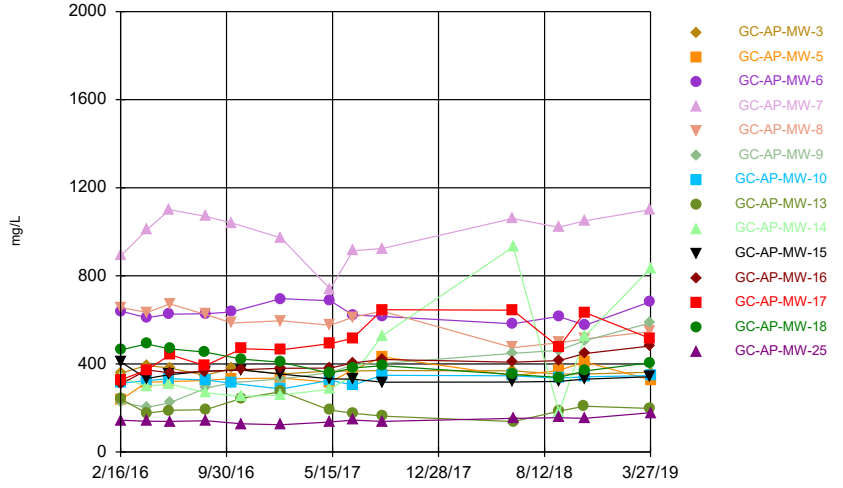
Time Series



Constituent: TDS Analysis Run 6/3/2019 4:08 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

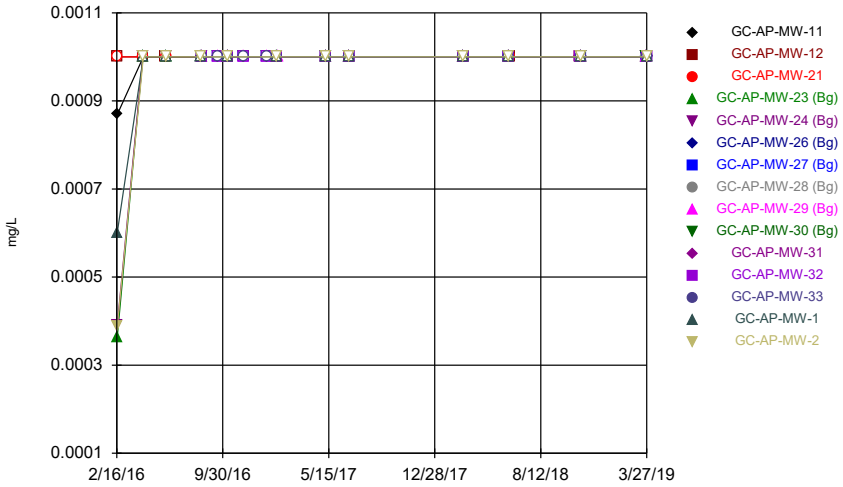
Time Series



Constituent: TDS Analysis Run 6/3/2019 4:08 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

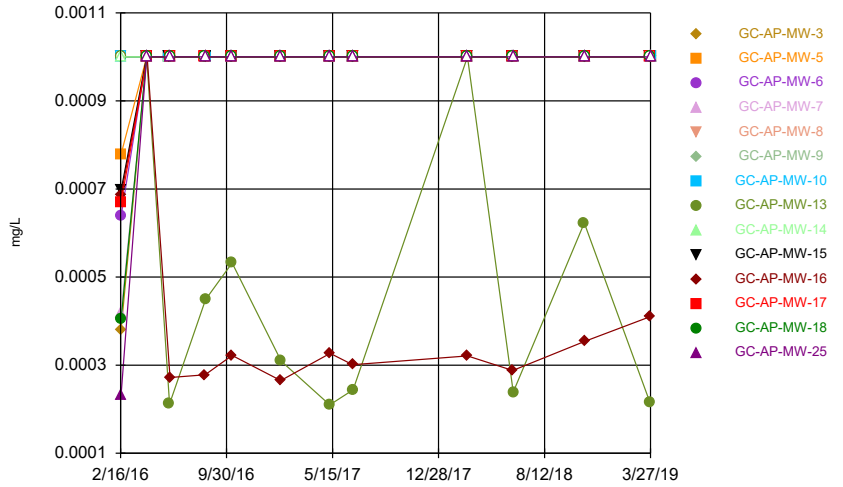
Time Series



Constituent: Thallium Analysis Run 6/3/2019 4:08 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/3/2019 4:08 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

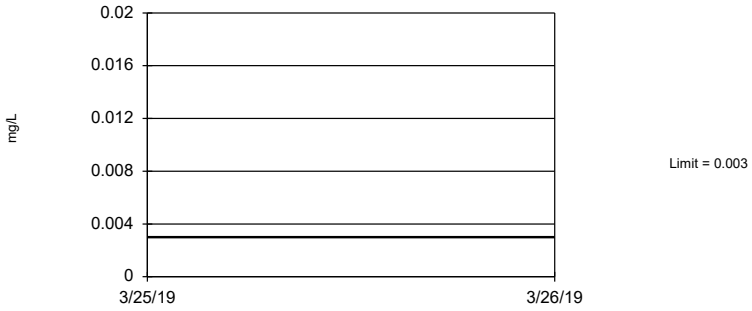
Upper Tolerance Limits

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:12 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	84	n/a	n/a	89.29	n/a	n/a	0.01345	NP Inter(NDs)
Arsenic (mg/L)	0.005	84	n/a	n/a	84.52	n/a	n/a	0.01345	NP Inter(NDs)
Barium (mg/L)	0.347	84	n/a	n/a	0	n/a	n/a	0.01345	NP Inter(normal...
Beryllium (mg/L)	0.003	84	n/a	n/a	85.71	n/a	n/a	0.01345	NP Inter(NDs)
Cadmium (mg/L)	0.001	84	n/a	n/a	77.38	n/a	n/a	0.01345	NP Inter(NDs)
Chromium (mg/L)	0.01	84	n/a	n/a	100	n/a	n/a	0.01345	NP Inter(NDs)
Cobalt (mg/L)	0.0167	84	n/a	n/a	58.33	n/a	n/a	0.01345	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	84	n/a	n/a	4.762	n/a	n/a	0.01345	NP Inter(normal...
Fluoride (mg/L)	0.31	91	n/a	n/a	59.34	n/a	n/a	0.009394	NP Inter(normal...
Lead (mg/L)	0.005	84	n/a	n/a	100	n/a	n/a	0.01345	NP Inter(NDs)
Lithium (mg/L)	0.02	84	n/a	n/a	100	n/a	n/a	0.01345	NP Inter(NDs)
Mercury (mg/L)	0.0005	84	n/a	n/a	100	n/a	n/a	0.01345	NP Inter(NDs)
Molybdenum (mg/L)	0.01	84	n/a	n/a	98.81	n/a	n/a	0.01345	NP Inter(NDs)
Selenium (mg/L)	0.01	84	n/a	n/a	90.48	n/a	n/a	0.01345	NP Inter(NDs)
Thallium (mg/L)	0.001	84	n/a	n/a	97.62	n/a	n/a	0.01345	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 89.29% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Antimony Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric

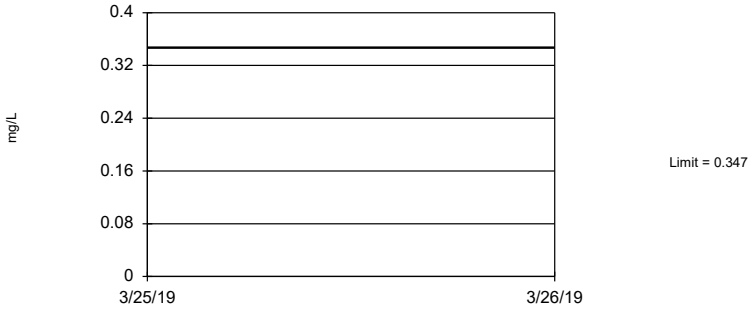
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 84.52% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Arsenic Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



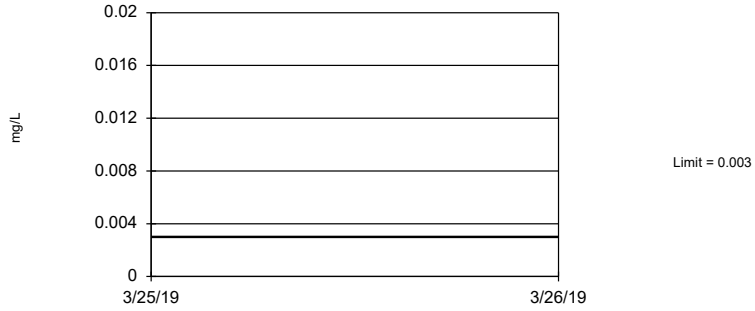
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Barium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



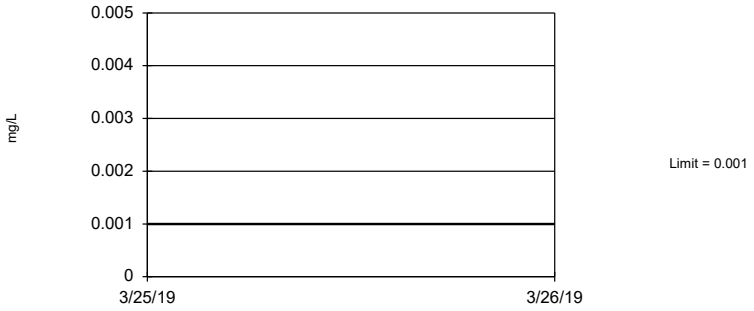
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 85.71% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Beryllium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 77.38% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Cadmium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric

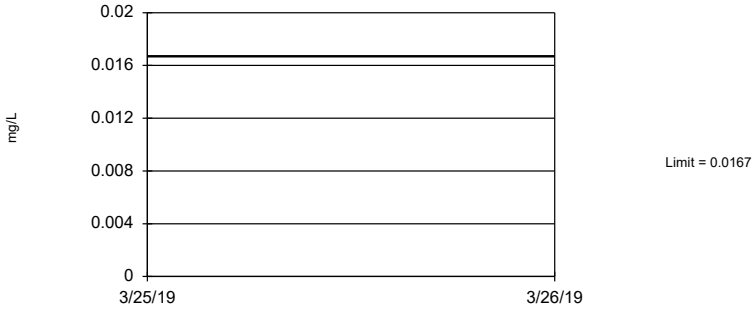
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Chromium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



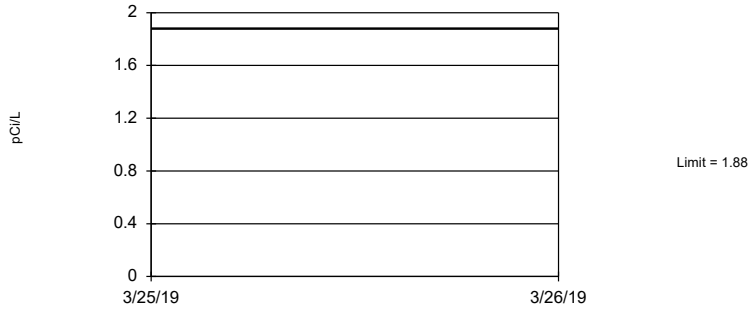
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 58.33% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Cobalt Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



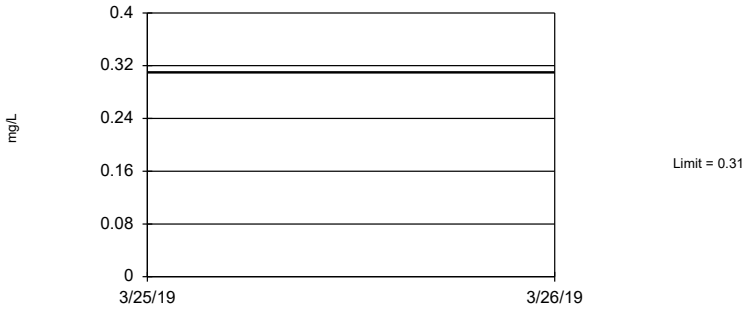
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 4.762% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 59.34% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Fluoride Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Lead Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

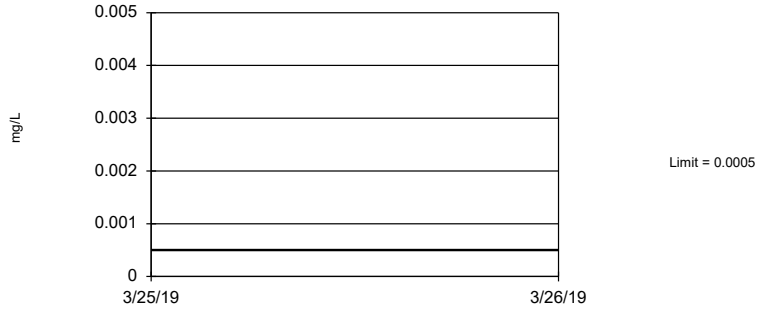
Constituent: Lithium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Mercury Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 98.81% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Molybdenum Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 90.48% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

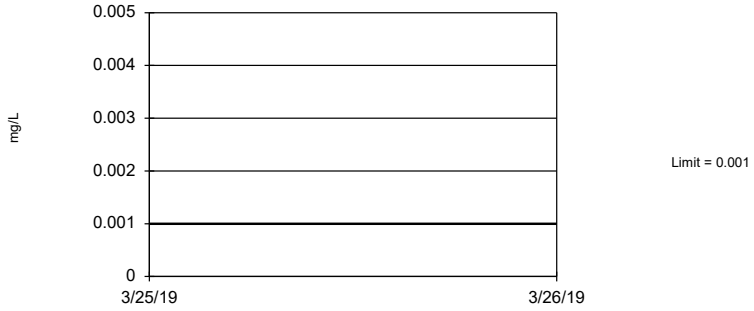
Constituent: Selenium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 84 background values. 97.62% NDs. 94.73% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01345.

Constituent: Thallium Analysis Run 6/3/2019 4:12 PM View: UTL - App IV

Greene County Client: Southern Company Data: Greene County AP

Confidence Intervals - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	**GC-AP-MW-1**	**0.0201**	**0.0165**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4273**	**0.3632**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0152**	**0.0123**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-14**	**0.03007**	**0.019**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0648**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.43**	**0.2498**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.1124**	**0.06381**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05211**	**0.03327**	**0.0167**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-1**	**0.0898**	**0.0452**	**0.0167**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-11**	**0.11**	**0.0646**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.3392**	**0.08533**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.31**	**0.07383**	**0.04**	**Yes**	**12**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.103**	**0.08723**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-10**	**0.1215**	**0.1031**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3545**	**0.1116**	**0.04**	**Yes**	**12**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7785**	**0.4816**	**0.04**	**Yes**	**12**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7196**	**0.5672**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5827**	**0.5258**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6845**	**0.5795**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.5821**	**0.3828**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**

Confidence Intervals -All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-11	0.003	0.000896	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.003	0.000683	0.006	No	12	33.33	No	0.01	NP (normality)
Antimony (mg/L)	GC-AP-MW-21	0.003	0.00107	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.003	0.000928	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.003	0.00091	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.003	0.00112	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-1	0.003	0.000799	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.003	0.00084	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.003	0.000906	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.003	0.000728	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.003	0.00141	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.003	0.000839	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.003	0.000833	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.003	0.000847	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.003	0.00128	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003194	0.001461	0.006	No	12	8.333	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.003	0.00106	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.003	0.00111	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.003	0.000935	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.003	0.000997	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.003	0.000984	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.003	0.00111	0.006	No	12	91.67	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-11	0.007384	0.005325	0.01	No	12	0	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-21	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.005	0.00121	0.01	No	12	75	No	0.01	NP (normality)
Arsenic (mg/L)	GC-AP-MW-32	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.005	0.00122	0.01	No	12	91.67	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-1**	**0.0201**	**0.0165**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-2	0.01327	0.009737	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.007848	0.006827	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4273**	**0.3632**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-6	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.008941	0.006372	0.01	No	12	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0152**	**0.0123**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-13	0.0141	0.00278	0.01	No	12	0	No	0.01	NP (normality)
Arsenic (mg/L)	**GC-AP-MW-14**	**0.03007**	**0.019**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-15	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0648**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.43**	**0.2498**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.1124**	**0.06381**	**0.01**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-25	0.005	0.005	0.01	No	12	100	No	0.01	NP (NDs)
Barium (mg/L)	GC-AP-MW-11	0.1091	0.07547	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02263	0.01871	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.04507	0.03296	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.02373	0.01999	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01345	0.01223	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.0775	0.03368	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.04067	0.03319	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03179	0.02841	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1039	0.09438	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.4594	0.3118	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.05485	0.04295	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.082	0.06675	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1083	0.0884	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1251	0.06904	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.1757	0.1583	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1095	0.09338	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.07196	0.04401	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.02749	0.02323	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.05313	0.03897	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.1791	0.07946	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1318	0.1157	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.09431	0.08537	2	No	12	0	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-11	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-12	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)

Confidence Intervals -All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GC-AP-MW-21	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-31	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-32	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-33	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-1	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-2	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-3	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-5	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-6	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-7	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-8	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-9	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-10	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-13	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-14	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-15	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-16	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-17	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-18	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-25	0.003	0.000715	0.004	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-12	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-31	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-32	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-33	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-1	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-3	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-5	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-7	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-10	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-14	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-16	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-17	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-18	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.001	0.001	0.005	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-11	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-21	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.01	0.00381	0.1	No	12	83.33	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05211**	**0.03327**	**0.0167**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-12	0.01	0.005	0.0167	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-21	0.01	0.005	0.0167	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-31	0.01	0.00239	0.0167	No	12	66.67	No	0.01	NP (normality)

Confidence Intervals -All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-32	0.01	0.005	0.0167	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.01093	0.004256	0.0167	No	12	33.33	No	0.01	Param.
Cobalt (mg/L)	**GC-AP-MW-1**	**0.0898**	**0.0452**	**0.0167**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	GC-AP-MW-2	0.01142	0.009339	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004545	0.003776	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-5	0.01571	0.006109	0.0167	No	12	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.01	0.00223	0.0167	No	12	50	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-7	0.01	0.00218	0.0167	No	12	50	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-8	0.0139	0.00478	0.0167	No	12	0	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-9	0.01379	0.01026	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.01518	0.01388	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.01	0.005	0.0167	No	12	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.01483	0.00547	0.0167	No	12	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01655	0.01445	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01525	0.01248	0.0167	No	12	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.02676	0.01267	0.0167	No	12	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.0225	0.0138	0.0167	No	12	0	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.00791	0.00637	0.0167	No	12	0	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	1.915	0.1658	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.965	-0.04874	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	1.5	0.126	5	No	12	16.67	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.8092	0.1175	5	No	12	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	0.5716	0.06985	5	No	12	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	1.269	0.3999	5	No	12	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.408	0.9906	5	No	12	8.333	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.5	0.374	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	2.126	0.6927	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.756	1.558	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.5	0.176	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.5	0.56	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.998	0.2702	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	2.147	0.5684	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	2.017	0.3965	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	1.5	0.258	5	No	12	16.67	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	2.052	0.2994	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	1.5	0.00389	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	2.026	0.3093	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.51	0.918	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	2.223	0.733	5	No	12	16.67	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.5	0.0751	5	No	12	16.67	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	GC-AP-MW-11	0.1449	0.1041	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.1999	0.1602	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2111	0.1781	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.087	0.045	4	No	13	61.54	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-32	0.054	0.023	4	No	13	38.46	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.3316	0.06816	4	No	13	38.46	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.081	0.04	4	No	13	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-2	0.09453	0.06947	4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.111	0.08221	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-5	0.2321	0.2092	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2222	0.1805	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.09269	0.06869	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.1183	0.07951	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-9	0.1934	0.1575	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2525	0.2084	4	No	13	0	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1709	0.1252	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.19	0.115	4	No	13	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-15	0.1265	0.09846	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.265	0.2062	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.573	0.362	4	No	13	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-18	0.185	0.153	4	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.051	0.021	4	No	13	61.54	No	0.01	NP (normality)
Lead (mg/L)	GC-AP-MW-11	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-12	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-21	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)

Confidence Intervals -All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GC-AP-MW-1	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.005	0.00104	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-5	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-6	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-7	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-8	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-10	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-13	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-14	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-15	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-16	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-17	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-18	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-25	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	**GC-AP-MW-11**	**0.11**	**0.0646**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.3392**	**0.08533**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.31**	**0.07383**	**0.04**	**Yes**	**12**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-31	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-32	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-33	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.05	0.02	0.04	No	12	91.67	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-2	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-3	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	**GC-AP-MW-5**	**0.103**	**0.08723**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-6	0.0519	0.0192	0.04	No	12	41.67	No	0.01	NP (normality)
Lithium (mg/L)	GC-AP-MW-7	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-8	0.04842	0.02176	0.04	No	12	16.67	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.0616	0.0296	0.04	No	12	0	No	0.01	NP (normality)
Lithium (mg/L)	**GC-AP-MW-10**	**0.1215**	**0.1031**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3545**	**0.1116**	**0.04**	**Yes**	**12**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7785**	**0.4816**	**0.04**	**Yes**	**12**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7196**	**0.5672**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5827**	**0.5258**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6845**	**0.5795**	**0.04**	**Yes**	**12**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.5821**	**0.3828**	**0.04**	**Yes**	**12**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-25	0.05	0.02	0.04	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-11	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-12	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-21	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-31	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-32	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-33	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-2	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-3	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-7	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-13	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-16	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-18	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-25	0.0005	0.0005	0.002	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-11	0.00984	0.00556	0.1	No	12	0	No	0.01	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-12	0.1101	0.08568	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-21	0.07203	0.04965	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-31	0.01	0.00201	0.1	No	12	91.67	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)

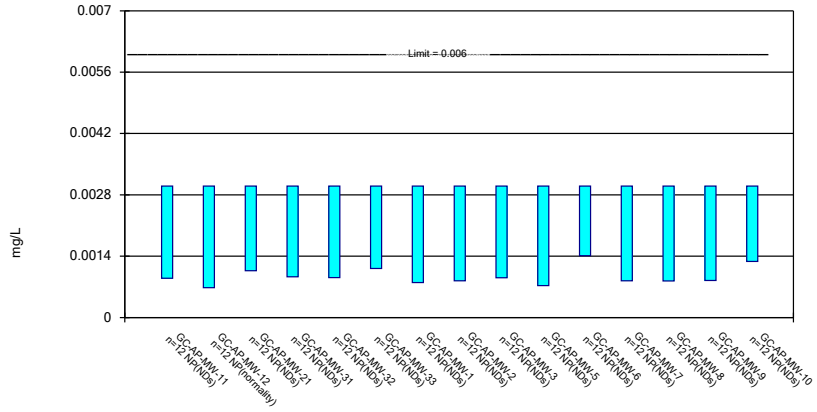
Confidence Intervals -All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/3/2019, 4:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003679	0.002925	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0109	0.008501	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.07976	0.03609	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01858	0.007516	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.09412	0.05611	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-11	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-12	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-21	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-31	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00206	0.05	No	12	75	No	0.01	NP (normality)
Selenium (mg/L)	GC-AP-MW-2	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-5	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-6	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-7	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-8	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-9	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-10	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.02232	0.006479	0.05	No	12	8.333	ln(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-14	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-15	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-16	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-17	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-18	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-25	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.001	0.000869	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-12	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-21	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-31	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-32	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-33	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.001	0.000601	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.001	0.000388	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.001	0.00038	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.001	0.000779	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.001	0.000639	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.001	0.00042	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-8	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-9	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-10	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.001	0.000212	0.002	No	12	25	No	0.01	NP (normality)
Thallium (mg/L)	GC-AP-MW-14	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-15	0.001	0.000697	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.000687	0.000272	0.002	No	12	8.333	No	0.01	NP (normality)
Thallium (mg/L)	GC-AP-MW-17	0.001	0.00067	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.001	0.000404	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.001	0.000232	0.002	No	12	91.67	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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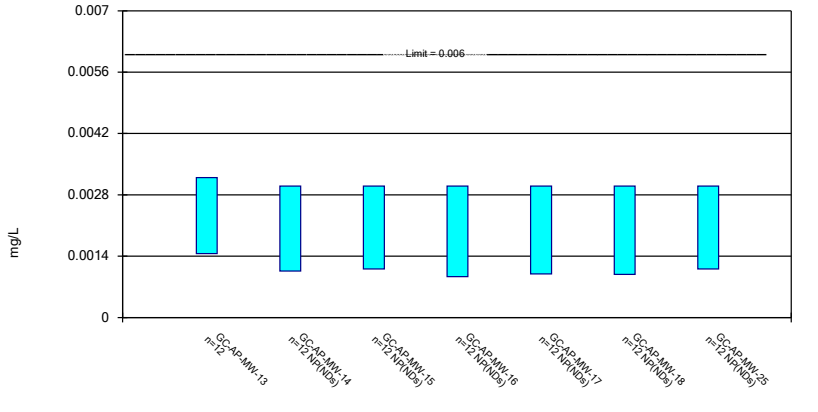
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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Parametric and Non-Parametric (NP) Confidence Interval

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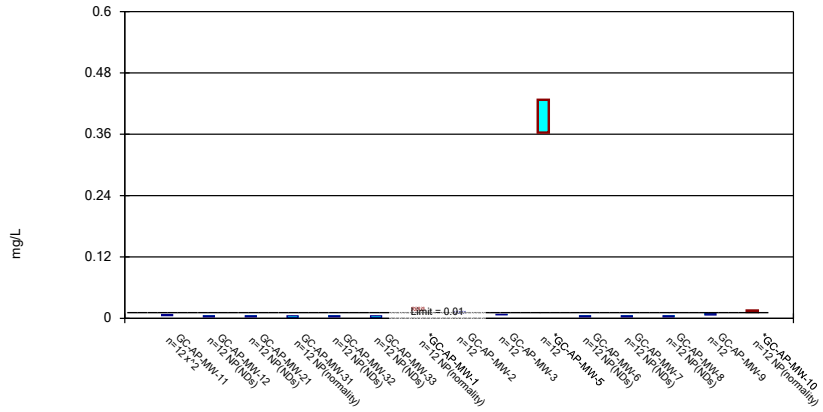

Constituent: Arsenic Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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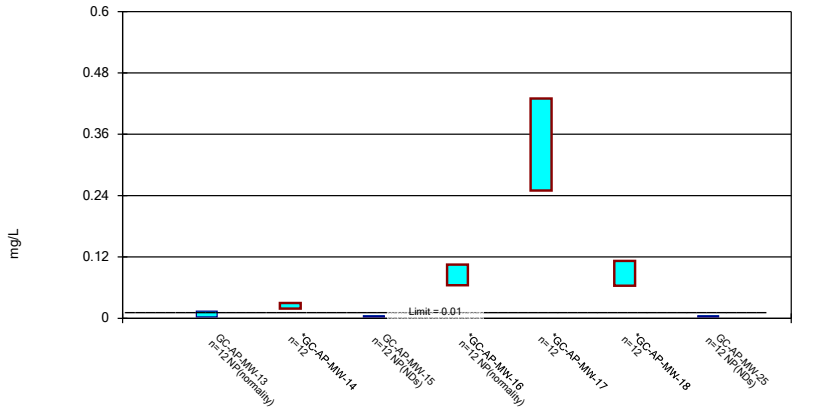
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

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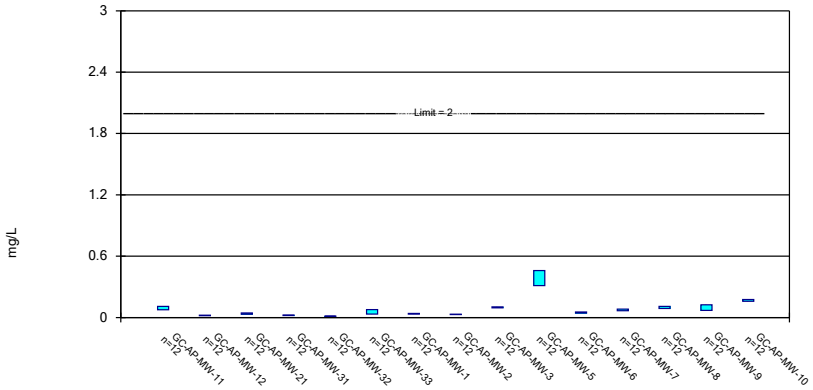

Constituent: Barium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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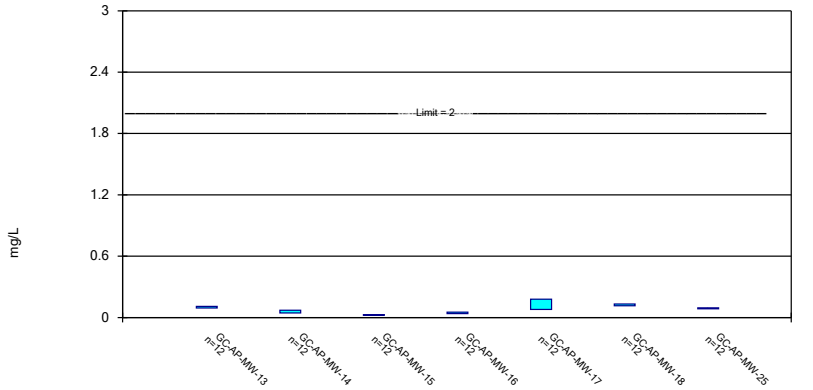
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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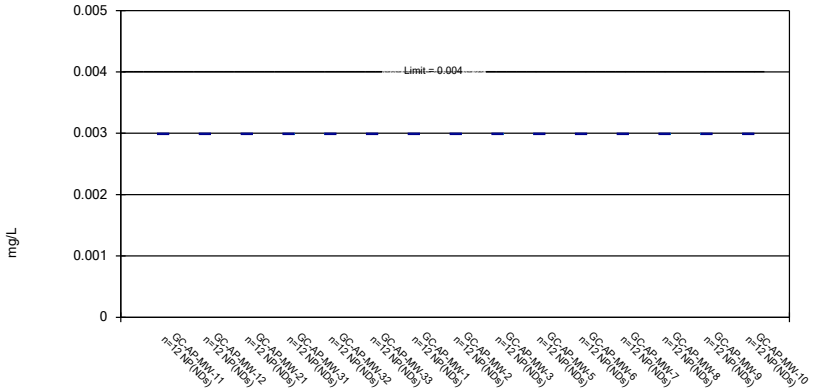
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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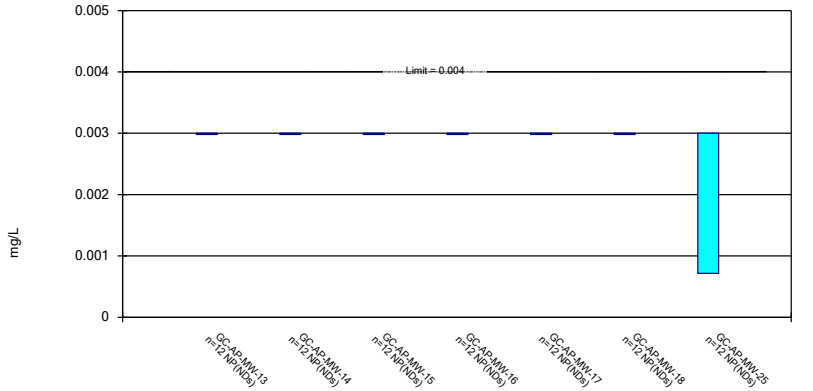
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

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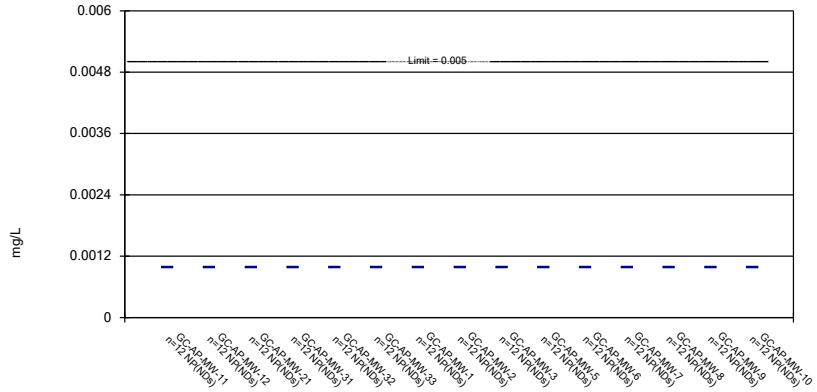

Constituent: Cadmium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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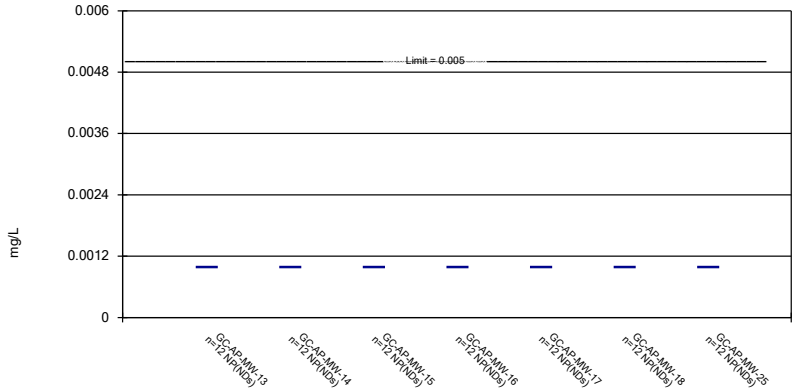
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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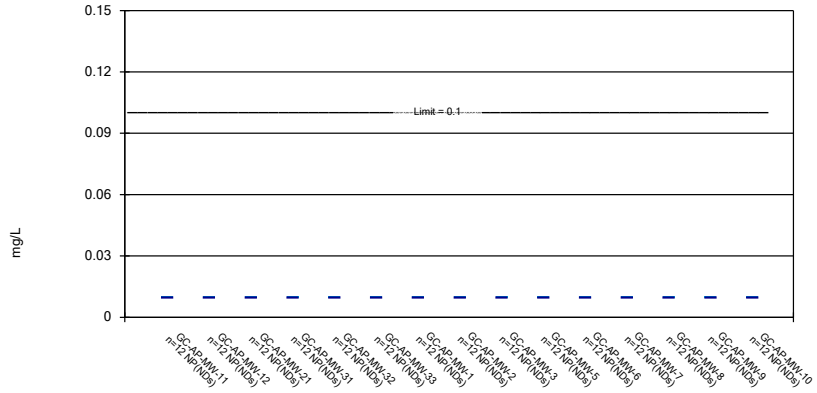
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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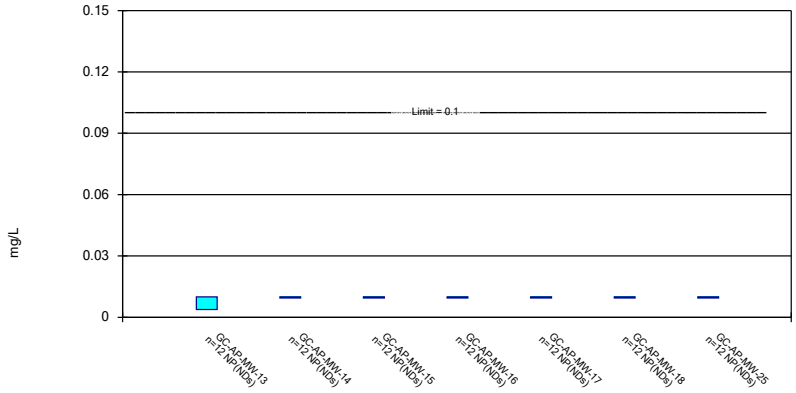
Non-Parametric Confidence Interval

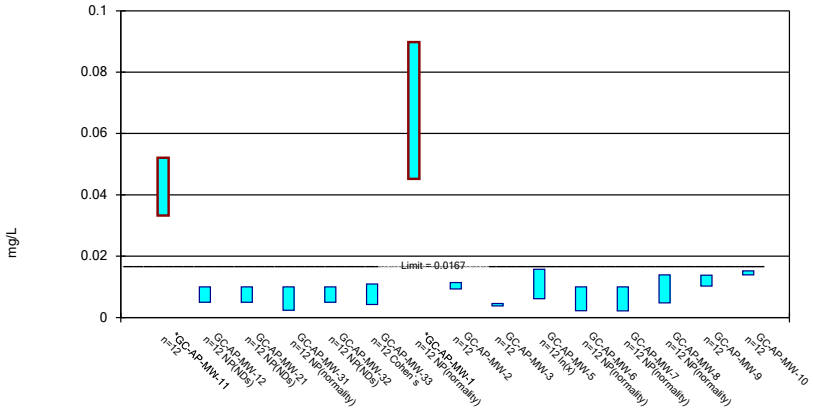
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

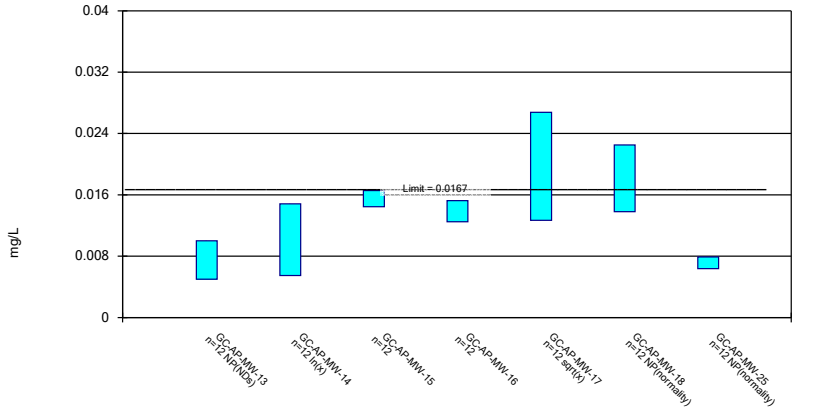
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/3/2019 4:14 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

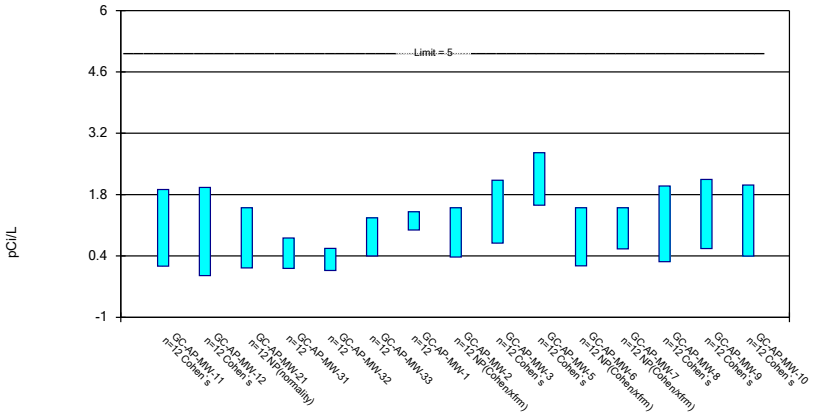
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

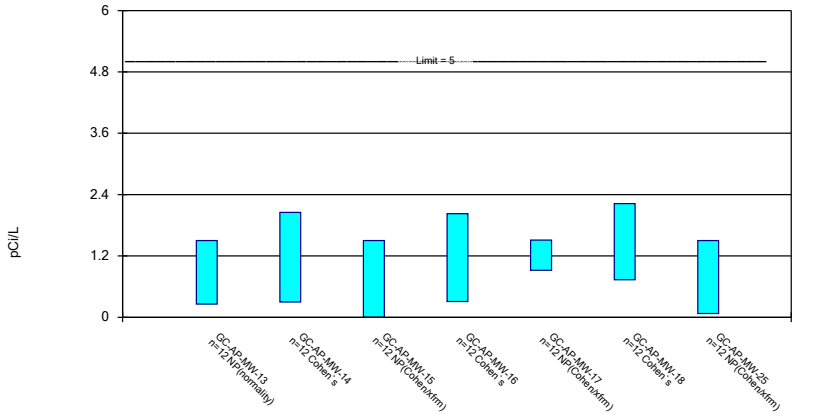
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

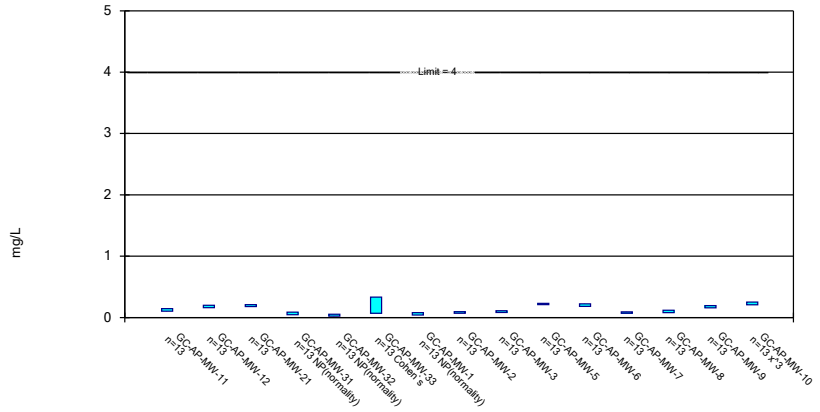
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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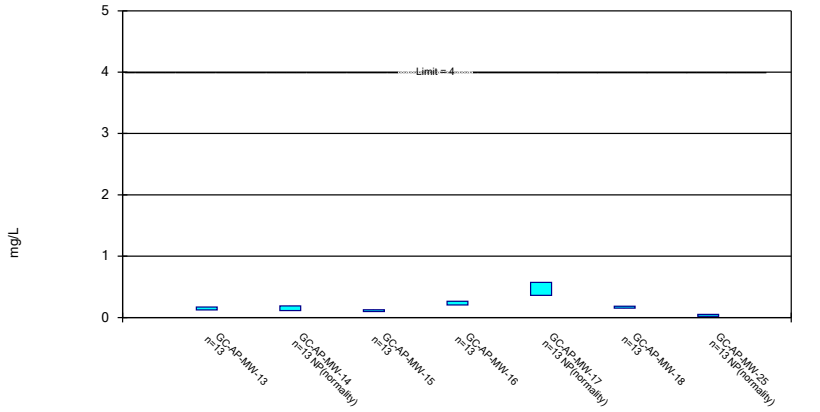
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

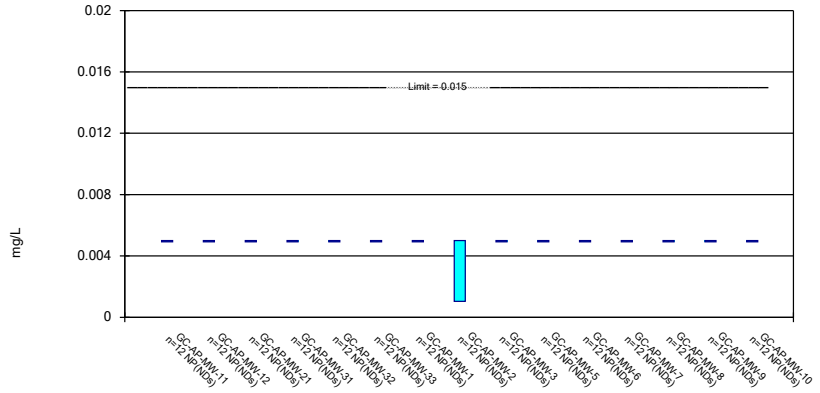


Constituent: Fluoride Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

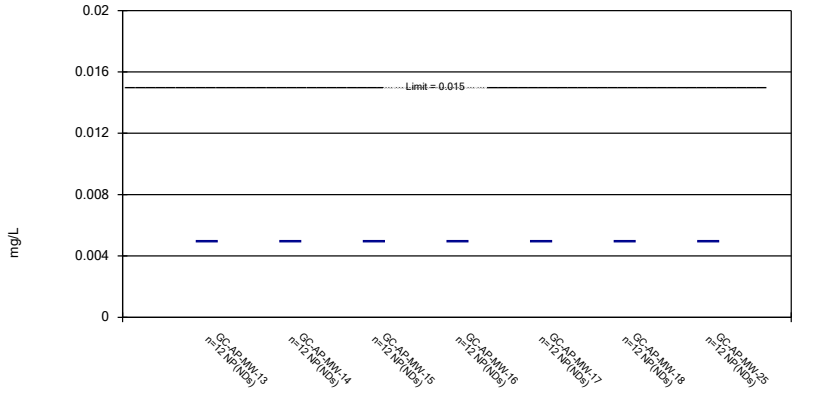


Constituent: Lead Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

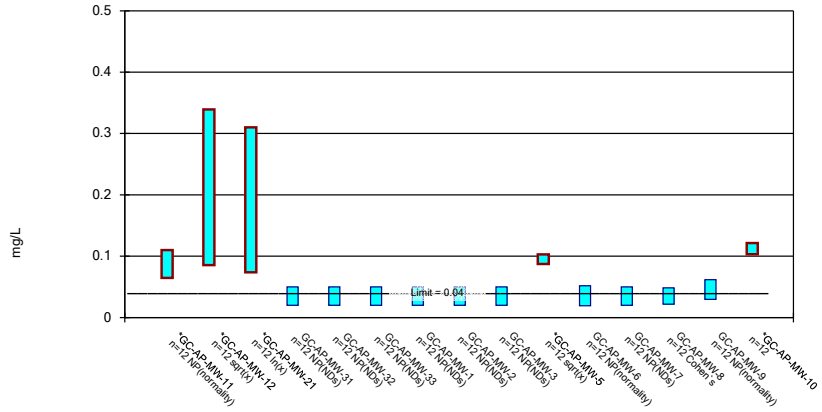
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

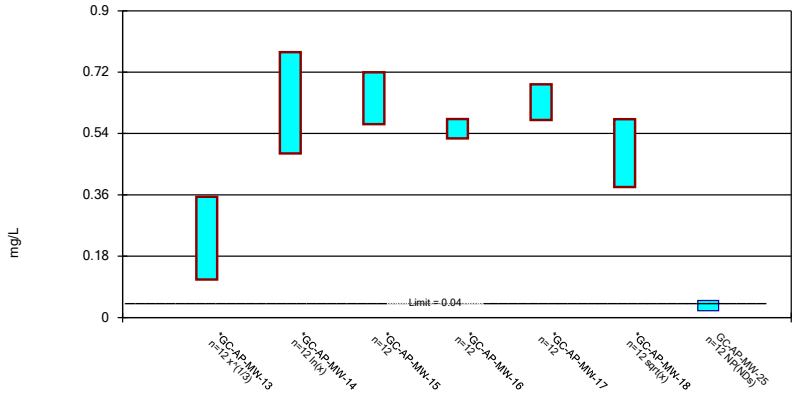


Constituent: Lithium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

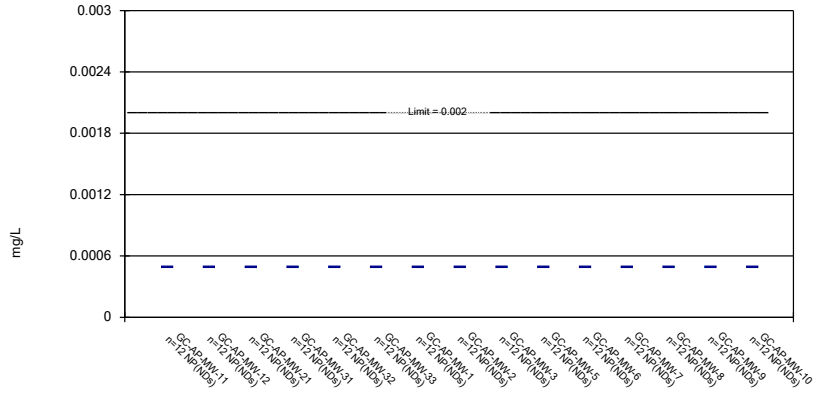


Constituent: Lithium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

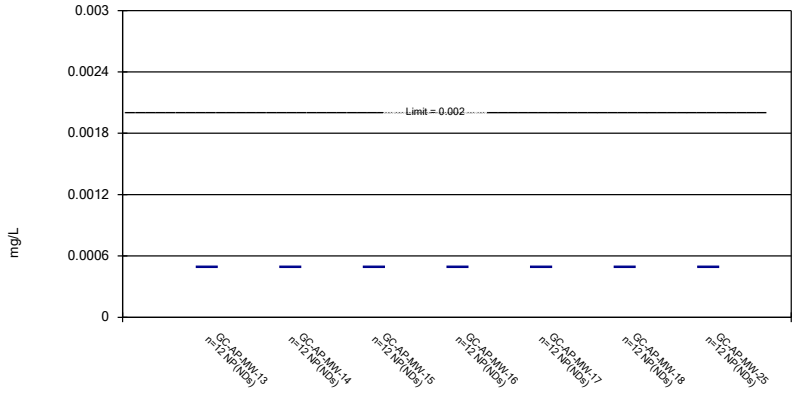


Constituent: Mercury Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

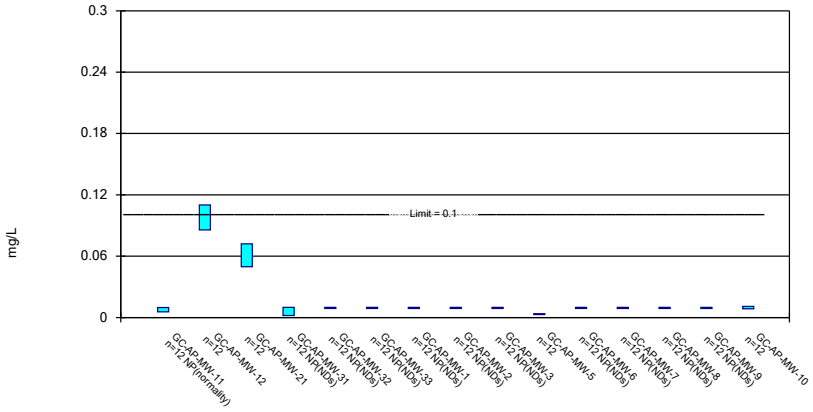
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

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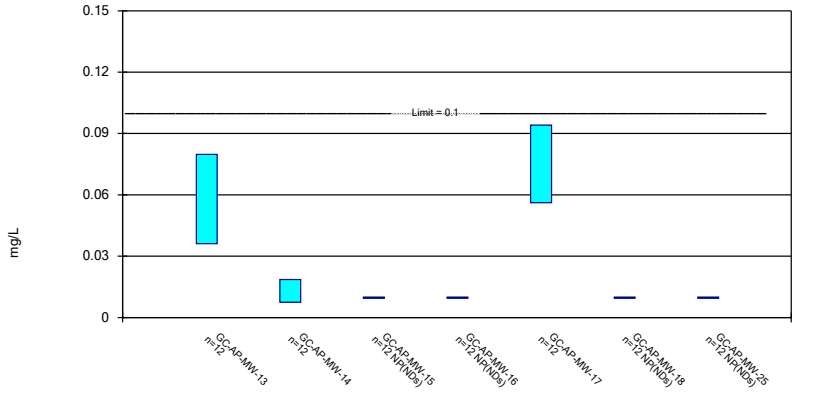
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

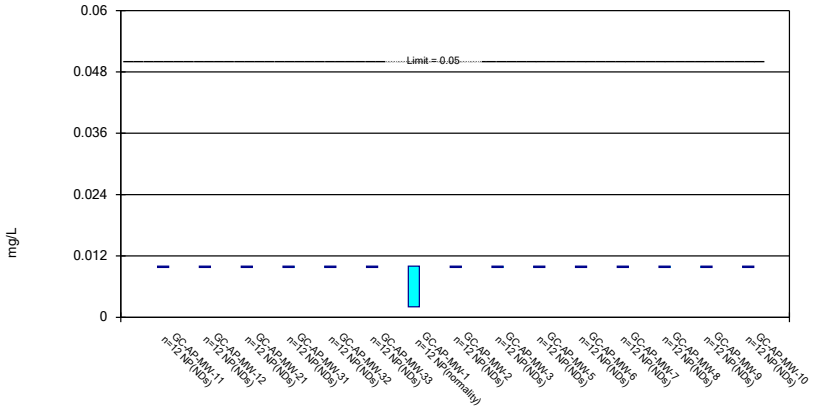


Constituent: Molybdenum Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

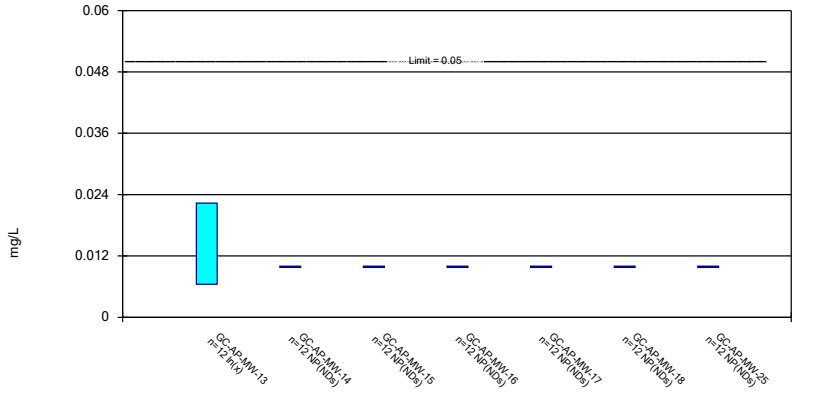


Constituent: Selenium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

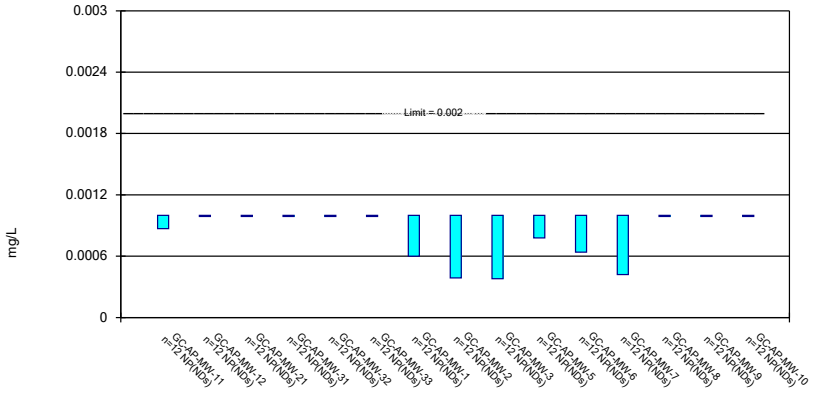
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

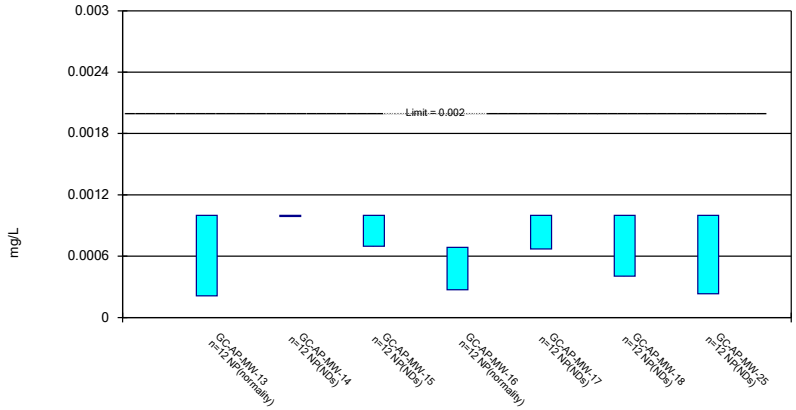


Constituent: Thallium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.14 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/3/2019 4:15 PM View: Confidence Intervals
Greene County Client: Southern Company Data: Greene County AP

2nd
Semi-Annual
Monitoring Event

Interwell Prediction Limit - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-25	0.1	n/a	9/10/2019	0.105	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-1	0.1	n/a	9/10/2019	0.398	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1	n/a	9/9/2019	0.157	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1	n/a	9/11/2019	0.595	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1	n/a	9/10/2019	1.83	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1	n/a	9/10/2019	0.764	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1	n/a	9/10/2019	1.82	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1	n/a	9/10/2019	1.23	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1	n/a	9/10/2019	1.27	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1	n/a	9/10/2019	0.141	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1	n/a	9/10/2019	0.153	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1	n/a	9/11/2019	0.535	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1	n/a	9/10/2019	1.49	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1	n/a	9/10/2019	0.73	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1	n/a	9/10/2019	1.69	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1	n/a	9/9/2019	2.33	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1	n/a	9/9/2019	1.73	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1	n/a	9/10/2019	0.16	Yes	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	9/10/2019	147	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	9/9/2019	111	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	9/9/2019	98.5	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	9/11/2019	90.8	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	9/10/2019	164	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	9/10/2019	188	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	9/10/2019	91	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	9/10/2019	116	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	9/10/2019	69.3	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	9/11/2019	53.9	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	9/10/2019	125	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	9/10/2019	57.2	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	9/10/2019	86.3	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	9/9/2019	66.4	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	9/9/2019	83.2	Yes	98	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-25	7.9	n/a	9/10/2019	17.7	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-1	7.9	n/a	9/10/2019	18.1	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-2	7.9	n/a	9/9/2019	14	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-3	7.9	n/a	9/9/2019	23.8	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-5	7.9	n/a	9/11/2019	11.6	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-6	7.9	n/a	9/10/2019	27.3	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-7	7.9	n/a	9/10/2019	67	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-8	7.9	n/a	9/10/2019	56.1	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-9	7.9	n/a	9/10/2019	28	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-10	7.9	n/a	9/10/2019	16.5	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-11	7.9	n/a	9/10/2019	8.88	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-12	7.9	n/a	9/10/2019	10.9	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-13	7.9	n/a	9/11/2019	12.3	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-14	7.9	n/a	9/10/2019	13.5	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-15	7.9	n/a	9/10/2019	12.8	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-16	7.9	n/a	9/10/2019	12.7	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-17	7.9	n/a	9/9/2019	15.4	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-18	7.9	n/a	9/9/2019	25.6	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-21	7.9	n/a	9/10/2019	11	Yes	98	5.102	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	9/10/2019	0.179	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	9/9/2019	0.163	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	9/11/2019	0.2	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	9/10/2019	0.227	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	9/10/2019	0.178	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	9/10/2019	0.226	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	9/10/2019	0.191	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	9/10/2019	0.26	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	9/10/2019	0.209	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	9/10/2019	0.267	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	9/9/2019	0.477	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	9/10/2019	0.194	Yes	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	9/10/2019	992	Yes	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	9/9/2019	385	Yes	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	9/11/2019	149	Yes	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	9/10/2019	140	Yes	98	26.53	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limit - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**9/10/2019**	**409**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**9/10/2019**	**115**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-13**	**103**	**n/a**	**9/11/2019**	**128**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**9/10/2019**	**193**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**9/10/2019**	**150**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**9/10/2019**	**182**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**9/10/2019**	**1740**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**9/9/2019**	**666**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**9/9/2019**	**371**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**9/11/2019**	**455**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**9/10/2019**	**744**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**9/10/2019**	**1100**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**9/10/2019**	**601**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**9/10/2019**	**586**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**9/10/2019**	**351**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**9/10/2019**	**201**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**9/10/2019**	**218**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**9/11/2019**	**316**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**9/10/2019**	**658**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**9/10/2019**	**358**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**9/10/2019**	**453**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**9/9/2019**	**500**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**9/9/2019**	**409**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**9/10/2019**	**198**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**

Interwell Prediction Limit - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	**GC-AP-MW-25**	**0.1**	**n/a**	**9/10/2019**	**0.105**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-1**	**0.1**	**n/a**	**9/10/2019**	**0.398**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-2**	**0.1**	**n/a**	**9/9/2019**	**0.157**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-3	0.1	n/a	9/9/2019	0.035	No	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-5**	**0.1**	**n/a**	**9/11/2019**	**0.595**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-6**	**0.1**	**n/a**	**9/10/2019**	**1.83**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-7**	**0.1**	**n/a**	**9/10/2019**	**0.764**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-8**	**0.1**	**n/a**	**9/10/2019**	**1.82**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-9**	**0.1**	**n/a**	**9/10/2019**	**1.23**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-10**	**0.1**	**n/a**	**9/10/2019**	**1.27**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-11**	**0.1**	**n/a**	**9/10/2019**	**0.141**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-12**	**0.1**	**n/a**	**9/10/2019**	**0.153**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-13**	**0.1**	**n/a**	**9/11/2019**	**0.535**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-14**	**0.1**	**n/a**	**9/10/2019**	**1.49**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-15**	**0.1**	**n/a**	**9/10/2019**	**0.73**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-16**	**0.1**	**n/a**	**9/10/2019**	**1.69**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-17**	**0.1**	**n/a**	**9/9/2019**	**2.33**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-18**	**0.1**	**n/a**	**9/9/2019**	**1.73**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-21**	**0.1**	**n/a**	**9/10/2019**	**0.16**	**Yes**	**91**	**91.21**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-31	0.1	n/a	9/11/2019	0.1ND	No	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1	n/a	9/11/2019	0.1ND	No	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1	n/a	9/11/2019	0.1ND	No	91	91.21	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	9/10/2019	9.28	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	**GC-AP-MW-1**	**42.7**	**n/a**	**9/10/2019**	**147**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-2**	**42.7**	**n/a**	**9/9/2019**	**111**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-3**	**42.7**	**n/a**	**9/9/2019**	**98.5**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-5**	**42.7**	**n/a**	**9/11/2019**	**90.8**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-6**	**42.7**	**n/a**	**9/10/2019**	**164**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-7**	**42.7**	**n/a**	**9/10/2019**	**188**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-8**	**42.7**	**n/a**	**9/10/2019**	**91**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-9**	**42.7**	**n/a**	**9/10/2019**	**116**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-10**	**42.7**	**n/a**	**9/10/2019**	**69.3**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	9/10/2019	27.7	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	9/10/2019	30.5	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	**GC-AP-MW-13**	**42.7**	**n/a**	**9/11/2019**	**53.9**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-14**	**42.7**	**n/a**	**9/10/2019**	**125**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-15**	**42.7**	**n/a**	**9/10/2019**	**57.2**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-16**	**42.7**	**n/a**	**9/10/2019**	**86.3**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-17**	**42.7**	**n/a**	**9/9/2019**	**66.4**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-18**	**42.7**	**n/a**	**9/9/2019**	**83.2**	**Yes**	**98**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	GC-AP-MW-21	42.7	n/a	9/10/2019	28.4	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	9/11/2019	6.96	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	9/11/2019	9.95	No	98	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	9/11/2019	2.17	No	98	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	**GC-AP-MW-25**	**7.9**	**n/a**	**9/10/2019**	**17.7**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-1**	**7.9**	**n/a**	**9/10/2019**	**18.1**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-2**	**7.9**	**n/a**	**9/9/2019**	**14**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-3**	**7.9**	**n/a**	**9/9/2019**	**23.8**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-5**	**7.9**	**n/a**	**9/11/2019**	**11.6**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-6**	**7.9**	**n/a**	**9/10/2019**	**27.3**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-7**	**7.9**	**n/a**	**9/10/2019**	**67**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-8**	**7.9**	**n/a**	**9/10/2019**	**56.1**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-9**	**7.9**	**n/a**	**9/10/2019**	**28**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-10**	**7.9**	**n/a**	**9/10/2019**	**16.5**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-11**	**7.9**	**n/a**	**9/10/2019**	**8.88**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-12**	**7.9**	**n/a**	**9/10/2019**	**10.9**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-13**	**7.9**	**n/a**	**9/11/2019**	**12.3**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-14**	**7.9**	**n/a**	**9/10/2019**	**13.5**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-15**	**7.9**	**n/a**	**9/10/2019**	**12.8**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-16**	**7.9**	**n/a**	**9/10/2019**	**12.7**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-17**	**7.9**	**n/a**	**9/9/2019**	**15.4**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-18**	**7.9**	**n/a**	**9/9/2019**	**25.6**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	**GC-AP-MW-21**	**7.9**	**n/a**	**9/10/2019**	**11**	**Yes**	**98**	**5.102**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Chloride (mg/L)	GC-AP-MW-31	7.9	n/a	9/11/2019	5.31	No	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-32	7.9	n/a	9/11/2019	4.21	No	98	5.102	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-33	7.9	n/a	9/11/2019	4.16	No	98	5.102	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	9/10/2019	0.1ND	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-1**	**0.159**	**n/a**	**9/10/2019**	**0.179**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**

Interwell Prediction Limit - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	**GC-AP-MW-2**	**0.159**	**n/a**	**9/9/2019**	**0.163**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	9/9/2019	0.121	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-5**	**0.159**	**n/a**	**9/11/2019**	**0.2**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-6**	**0.159**	**n/a**	**9/10/2019**	**0.227**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	9/10/2019	0.086	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	9/10/2019	0.113	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-9**	**0.159**	**n/a**	**9/10/2019**	**0.178**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-10**	**0.159**	**n/a**	**9/10/2019**	**0.226**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-11**	**0.159**	**n/a**	**9/10/2019**	**0.191**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-12**	**0.159**	**n/a**	**9/10/2019**	**0.26**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	9/11/2019	0.118	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-14**	**0.159**	**n/a**	**9/10/2019**	**0.209**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	9/10/2019	0.122	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-16**	**0.159**	**n/a**	**9/10/2019**	**0.267**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-17**	**0.159**	**n/a**	**9/9/2019**	**0.477**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	9/9/2019	0.157	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-21**	**0.159**	**n/a**	**9/10/2019**	**0.194**	**Yes**	**92**	**61.96**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	9/11/2019	0.1ND	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	9/11/2019	0.0518	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	9/11/2019	0.1ND	No	92	61.96	n/a	0.000...	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.96	9/10/2019	5.15	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-1	6.8	3.96	9/10/2019	5.88	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-2	6.8	3.96	9/9/2019	6.13	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-3	6.8	3.96	9/9/2019	6.22	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-5	6.8	3.96	9/11/2019	6.36	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-6	6.8	3.96	9/10/2019	6.55	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-7	6.8	3.96	9/10/2019	6.39	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-8	6.8	3.96	9/10/2019	6.31	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-9	6.8	3.96	9/10/2019	6.43	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-10	6.8	3.96	9/10/2019	6.33	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-11	6.8	3.96	9/10/2019	5.91	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-12	6.8	3.96	9/10/2019	6.69	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-13	6.8	3.96	9/11/2019	6.22	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-14	6.8	3.96	9/10/2019	6.11	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-15	6.8	3.96	9/10/2019	5.82	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-16	6.8	3.96	9/10/2019	6.35	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-17	6.8	3.96	9/9/2019	5.84	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-18	6.8	3.96	9/9/2019	6.28	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-21	6.8	3.96	9/10/2019	6.58	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-31	6.8	3.96	9/11/2019	5.85	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-32	6.8	3.96	9/11/2019	5.87	No	122	0	n/a	0.00026	NP Inter (normality) ...
pH (SU)	GC-AP-MW-33	6.8	3.96	9/11/2019	4.57	No	122	0	n/a	0.00026	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	9/10/2019	66	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-1**	**103**	**n/a**	**9/10/2019**	**992**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-2**	**103**	**n/a**	**9/9/2019**	**385**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	9/9/2019	6.56	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-5**	**103**	**n/a**	**9/11/2019**	**149**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**9/10/2019**	**140**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**9/10/2019**	**409**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	9/10/2019	37.4	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**9/10/2019**	**115**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	9/10/2019	50.5	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	9/10/2019	87.2	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	9/10/2019	89.3	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-13**	**103**	**n/a**	**9/11/2019**	**128**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**9/10/2019**	**193**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**9/10/2019**	**150**	**Yes**	**98**	**26.53**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	9/10/2019	68	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	9/9/2019	57.3	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	9/9/2019	17.8	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	9/10/2019	63.1	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	9/11/2019	3.83	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	9/11/2019	2.66	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	9/11/2019	14.5	No	98	26.53	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**9/10/2019**	**182**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**9/10/2019**	**1740**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**9/9/2019**	**666**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**9/9/2019**	**371**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**

Interwell Prediction Limit - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**9/11/2019**	**455**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**9/10/2019**	**744**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**9/10/2019**	**1100**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**9/10/2019**	**601**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**9/10/2019**	**586**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**9/10/2019**	**351**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**9/10/2019**	**201**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**9/10/2019**	**218**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**9/11/2019**	**316**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**9/10/2019**	**658**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**9/10/2019**	**358**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**9/10/2019**	**453**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**9/9/2019**	**500**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**9/9/2019**	**409**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**9/10/2019**	**198**	**Yes**	**98**	**16.33**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	GC-AP-MW-31	174	n/a	9/11/2019	52.7	No	98	16.33	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-32	174	n/a	9/11/2019	55.3	No	98	16.33	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-33	174	n/a	9/11/2019	68.3	No	98	16.33	n/a	0.000...	NP Inter (normality) ...

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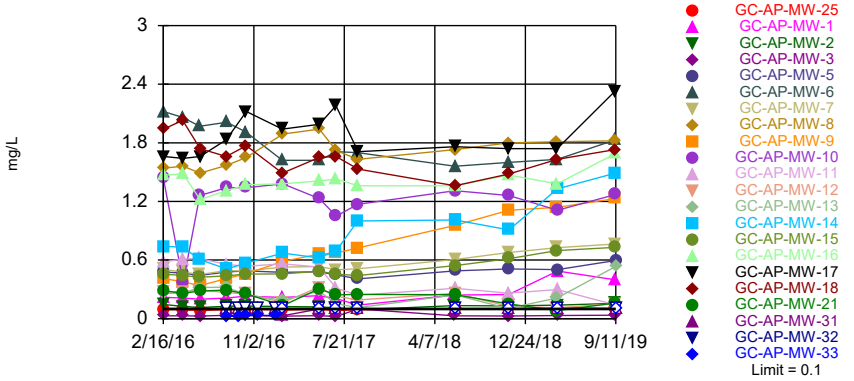
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 91.21% NDs. Annual per-constituent alpha = 0.01091. Individual comparison alpha = 0.0002285 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: Boron Analysis Run 1/21/2020 1:29 PM View: Interwell PL

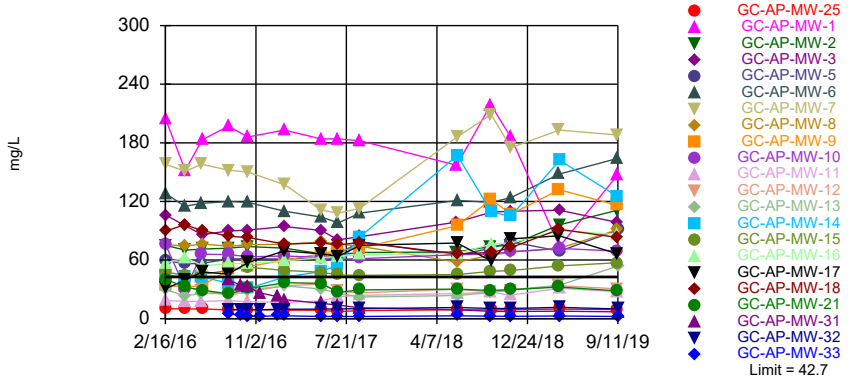
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.009488. Individual comparison alpha = 0.0001986 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: Calcium Analysis Run 1/21/2020 1:29 PM View: Interwell PL

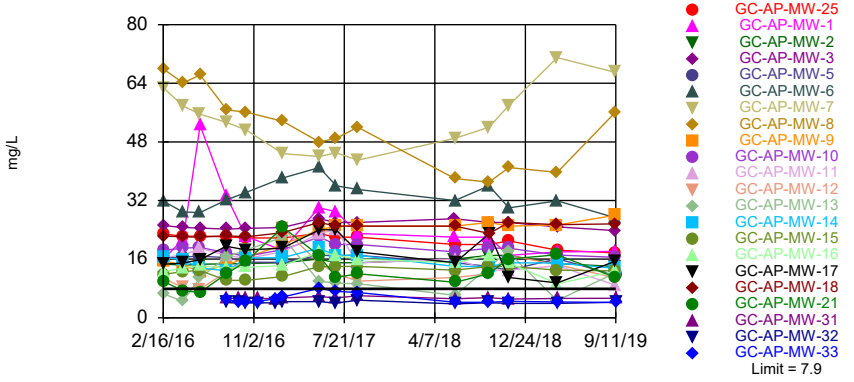
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 5.102% NDs. Annual per-constituent alpha = 0.009488. Individual comparison alpha = 0.0001986 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: Chloride Analysis Run 1/21/2020 1:29 PM View: Interwell PL

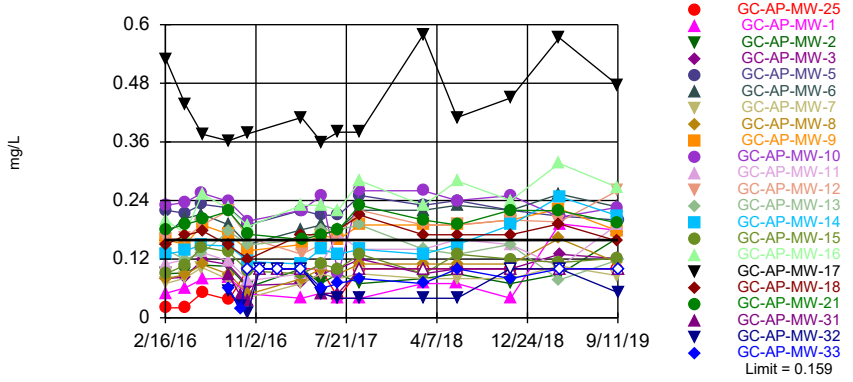
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 92 background values. 61.96% NDs. Annual per-constituent alpha = 0.01071. Individual comparison alpha = 0.0002242 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: Fluoride Analysis Run 1/21/2020 1:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-5
2/16/2016	0.739	0.26	0.412	1.44	0.273	1.54	0.286			
2/17/2016								0.0271 (J)	0.146	0.478
4/12/2016	0.733	0.26						<0.1		0.467
4/13/2016			0.376	0.373	0.276	1.56	0.26		0.125	
5/31/2016	0.603	0.318		1.26	0.291					0.443
6/1/2016			0.338			1.49	0.283	<0.1	0.114	
8/15/2016									0.128	
8/16/2016		0.322		1.34	0.268		0.292	<0.1		
8/17/2016	0.509		0.412			1.57				0.477
9/19/2016										
9/20/2016										
10/11/2016								0.024 (J)	0.129	0.489
10/12/2016	0.569	0.244	0.46	1.34	0.252	1.65	0.254			
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								0.0333 (J)	0.124	0.475
1/25/2017	0.671	0.188	0.586	1.38	0.167	1.89	0.133			
1/26/2017										
5/9/2017	0.622	0.281			0.32		0.304	<0.1	0.121	0.479
5/10/2017			0.661	1.23		1.94				
6/27/2017								<0.1		
6/28/2017	0.695	0.153	0.673	1.05	0.231	1.72	0.243		0.111	0.448
8/29/2017	1	0.112	0.723	1.17	0.191	1.63	0.249	<0.1		
8/30/2017									0.0915 (J)	0.407
6/4/2018									0.134	
6/5/2018			0.954	1.31		1.73		<0.1		0.489
6/6/2018	1.01	0.244			0.26		0.245			
11/5/2018		0.104			0.127		0.151			
11/6/2018									0.131	0.508
11/7/2018	0.908		1.11	1.26		1.8		<0.1		
3/26/2019		0.213	1.14		0.111	1.81	0.0834 (J)	<0.1		
3/27/2019	1.33			1.11					0.138	0.502
9/9/2019									0.157	
9/10/2019	1.49		1.23	1.27	0.153	1.82	0.16	<0.1		
9/11/2019		0.535								0.595

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-24 (bg)	GC-AP-MW-18	GC-AP-MW-16	GC-AP-MW-6	GC-AP-MW-17
2/16/2016										
2/17/2016	0.503	0.581	0.454	0.219	0.0922 (J)	<0.1	1.94	1.47	2.12	1.66
4/12/2016			0.444		0.0935 (J)	<0.1	2.03		2.06	
4/13/2016	0.478	0.61		0.211				1.48		1.64
5/31/2016	0.452	0.615	0.424						1.97	
6/1/2016				0.2	0.0826 (J)	<0.1	1.74	1.22		1.66
8/15/2016				0.211			1.66	1.31		1.83
8/16/2016		0.554	0.438			<0.1				
8/17/2016	0.492				0.092 (J)				2.01	
9/19/2016										
9/20/2016										
10/11/2016			0.456	0.23	0.0976 (J)	<0.1			1.91	
10/12/2016	0.487	0.537					1.77	1.37		2.12
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017			0.458	0.218	0.0877 (J)	<0.1	1.49	1.38	1.62	1.94
1/25/2017	0.529	0.562								
1/26/2017										
5/9/2017		0.528		0.235	0.0953 (J)					
5/10/2017	0.533		0.486			<0.1	1.65	1.41	1.62	1.99
6/27/2017			0.454	0.206			1.66	1.43		2.18
6/28/2017	0.501	0.313			0.0835 (J)	<0.1			1.71	
8/29/2017	0.51	0.241			0.0914 (J)	<0.1			1.7	
8/30/2017			0.441	0.138			1.53	1.36		1.71
6/4/2018				0.242						
6/5/2018	0.605	0.311	0.543			<0.1	1.36	1.36	1.56	1.76
6/6/2018					0.102					
11/5/2018		0.262								
11/6/2018			0.614	0.247	0.0995 (J)		1.48	1.47		1.74
11/7/2018	0.677					<0.1			1.6	
3/26/2019	0.727		0.697			<0.1	1.63	1.38	1.63	1.74
3/27/2019		0.298		0.488	0.113					
9/9/2019							1.73			2.33
9/10/2019	0.764	0.141	0.73	0.398	0.105	<0.1		1.69	1.83	
9/11/2019										

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.0288 (J)								
4/12/2016	0.0293 (J)								
4/13/2016									
5/31/2016									
6/1/2016	0.0279 (J)								
8/15/2016	0.0332 (J)								
8/16/2016		<0.1	<0.1	<0.1	<0.1	0.0268 (J)			
8/17/2016							<0.1	<0.1	<0.1
9/19/2016			<0.1		<0.1	0.0225 (J)			
9/20/2016		<0.1		<0.1			<0.1	<0.1	<0.1
10/11/2016	0.0328 (J)	<0.1	<0.1	<0.1	<0.1	0.0304 (J)			
10/12/2016							<0.1	0.02 (J)	<0.1
11/14/2016			<0.1		<0.1	0.0355 (J)			
11/15/2016		<0.1		0.0229 (J)			<0.1	<0.1	<0.1
1/3/2017			<0.1		<0.1	0.0304 (J)			
1/4/2017		<0.1		<0.1			<0.1	<0.1	<0.1
1/23/2017		<0.1						0.0287 (J)	0.0217 (J)
1/24/2017	0.0262 (J)		0.0282 (J)		<0.1		0.0331 (J)		
1/25/2017						<0.1			
1/26/2017				<0.1					
5/9/2017	0.0298 (J)	<0.1		<0.1			<0.1	<0.1	<0.1
5/10/2017			<0.1		<0.1	<0.1			
6/27/2017		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/28/2017	0.0226 (J)								
8/29/2017								<0.1	<0.1
8/30/2017	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
6/4/2018	0.0296 (J)								
6/5/2018		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/6/2018									
11/5/2018					<0.1				
11/6/2018	0.0268 (J)	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
11/7/2018									
3/26/2019		<0.1		<0.1			<0.1	<0.1	<0.1
3/27/2019	0.0316 (J)		<0.1		<0.1	<0.1			
9/9/2019	0.035 (J)								
9/10/2019									
9/11/2019		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-23 (bg)	GC-AP-MW-3	GC-AP-MW-2
2/16/2016	34.6	75.9	33.9	40.4	29.8	44.4	76.3			
2/17/2016								38.7	106	75
4/12/2016					23.3	43.2		42.7	95.2	
4/13/2016	32.2	74.1	32.5	32.2			30.5			70.2
5/31/2016	28.8				25.9	43	65.9			
6/1/2016		76.4	33.9	29.3				41.8	86.1	71.2
8/15/2016									89.7	72.2
8/16/2016	24			25.4	25.5		65.6	40.9		
8/17/2016		74.2	50.3			35.9				
9/19/2016										
9/20/2016										
10/11/2016								38.1	90.6	73.8
10/12/2016	27.8	75.7	53.3	30.7	29.5	31.1	63.4			
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								27.7	94.2	72.2
1/25/2017	33.7	76.1	59.9	36.8	33.6	42.7	64.2			
1/26/2017										
5/9/2017	35.5			36.1	30.4	48.1		29.3	90.3	66.4
5/10/2017		78.6	66.5				62.6			
6/27/2017								28.6		
6/28/2017	28	76.4	69.8	26.9	26	55	60.8		80.7	65.4
8/29/2017	26.4	74.1	72	29.4	22.3	83.6	61.4	32.3		
8/30/2017									84	67.8
6/4/2018									98.8	68.3
6/5/2018		58	95.1				65.5	34.5		
6/6/2018	30.1			30.2	23.7	167				
9/10/2018				28.8						73.9
9/11/2018	27.4	64.9	122		26.8		66.1	32		
9/12/2018						109			109	
11/5/2018	28.8			29.7	29.4					
11/6/2018									110	75.1
11/7/2018		68.1	107			105	68.5	30.3		
3/26/2019	33.7	72	132	32.4	34.1			31.3		
3/27/2019						162	71.8		111	96.1
9/9/2019									98.5	111
9/10/2019	30.5	91	116	28.4		125	69.3	30.7		
9/11/2019					53.9					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25	GC-AP-MW-7	GC-AP-MW-24 (bg)
2/16/2016										
2/17/2016	204	47.7	57	30.7	89.6	59.8	18.6	10.2	158	6.54
4/12/2016		44.4			96.2	56.1		10		6.15
4/13/2016	152		62.5	39.5			17.8		151	
5/31/2016		45.3				56.6	17.7		158	
6/1/2016	183		54.4	47.7	90.2			9.87		5.7
8/15/2016	197		56.2	45.6	84.4					
8/16/2016		49.4					18.4			6.77
8/17/2016						61		8.88	152	
9/19/2016										
9/20/2016										
10/11/2016	186	52.7				61.3		9.22		8.84
10/12/2016			56.6	57.6	82.9		17.3		150	
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017	193	49.4	59.1	69.4	76.4	61		8.72		12.8
1/25/2017							16.6		137	
1/26/2017										
5/9/2017	184					61.7	18	8.56		
5/10/2017		47.4	62.5	66.2	77.4				111	12.4
6/27/2017	184	44.9	63.6	63.8	75.4					
6/28/2017						66.1	22.6	7.16	108	17.9
8/29/2017							23.9	8.32	113	19
8/30/2017	182	44.4	65.7	75.1	78	78.9				
6/4/2018	157									
6/5/2018		45.1	66.8	77.4	66.3	64.8	25.7		186	30
6/6/2018								9.05		
9/10/2018	219						27.2			
9/11/2018		48.5				72.2			209	28.7
9/12/2018			76.3	58.9	67.8			8.98		
11/5/2018							24.1			
11/6/2018	186	49.2	77.4	81.6	72.7	78.9		9.21		
11/7/2018									175	30.7
3/26/2019		54	90	84.7	91.5				193	32.3
3/27/2019	73.8					69.1	31	9.77		
9/9/2019				66.4	83.2					
9/10/2019	147	57.2	86.3				27.7	9.28	188	32.8
9/11/2019						90.8				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	128								
4/12/2016	115								
4/13/2016									
5/31/2016	118								
6/1/2016									
8/15/2016									
8/16/2016		2.02	5.54	1.24	39.5	9.33			
8/17/2016	120						7.74	1.1	5.88
9/19/2016			3.01		34.5	9.26			
9/20/2016		1.22		1.11			2.43	0.771	5.95
10/11/2016	119	1.48	2.74	1.22	32.4	9.31			
10/12/2016							2.46	0.711	6.1
11/14/2016			2.47		26.5	9.17			
11/15/2016		1.36		1.34			2.28	0.641	6.28
1/3/2017			2.94		22.6	9.66			
1/4/2017		1.11		2.39			2.7	0.797	4.97
1/23/2017				1.83				0.655	5.17
1/24/2017	110				19.5	9.67	4.19		
1/25/2017			2.91						
1/26/2017		1.03							
5/9/2017		0.289 (J)		0.823			3.28	0.538	15.7
5/10/2017	104		2.27		15.7	9.81			
6/27/2017		0.292 (J)	2.2	0.956	13.8	9.88	3.76	0.413 (J)	14.2
6/28/2017	98								
8/29/2017	108							0.504	11.1
8/30/2017		0.336 (J)	2.26	1.04	11.1	10.3	2.31		
6/4/2018									
6/5/2018	121	0.2 (J)	2.97	1.18	9.12	11.4	2.76	0.339 (J)	3.93
6/6/2018									
9/10/2018									
9/11/2018	119	0.171 (J)	2.6	1.5	7.5	10.5	2.04	0.776	3.76
9/12/2018									
11/5/2018						10.5			
11/6/2018		0.193 (J)	2.42	1.64	7.39		2	0.746	4.81
11/7/2018	124								
3/26/2019	148	0.223 (J)		1.33			2.13	0.526	3.18
3/27/2019			2.75		7.65	11.6			
9/9/2019									
9/10/2019	164								
9/11/2019		0.158 (J)	2.17	0.925	6.96	9.95	1.98	0.638	3.98

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-23 (bg)	GC-AP-MW-3	GC-AP-MW-2
2/16/2016	10.8	67.9	15.6	9.95	6.52	16.4	18.4			
2/17/2016								1.54	25.2	14.7
4/12/2016					4.47	15.9		1.51	24.6	
4/13/2016	8.2	64.1	14.3	7.33			19			14.3
5/31/2016	7.74				10.8	13.6	19.2			
6/1/2016		66.3	12.6	6.97				1.46	24.5	14.6
8/15/2016									24.2	14.7
8/16/2016	12.5			12	16.6		17.7	1.5		
8/17/2016		56.7	14.4			12.8				
9/19/2016										
9/20/2016										
10/11/2016								1.52	24.4	14.8
10/12/2016	15.7	56.1	16.4	15.4	18.5	16.3	16.8			
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								1.38	24.6	15
1/25/2017	24.4	53.6	20	24.7	22	16.4	18.6			
1/26/2017										
5/9/2017	15			17	10	19		2.4	27	16
5/10/2017		48	24				22			
6/27/2017								2.1		
6/28/2017	12	49	25	11	9.4	17	20		26	15
8/29/2017	10	52	25	12	9.3	17	20	2.4		
8/30/2017									26	15
6/4/2018									27	16
6/5/2018		38	25				18	1.7 (J)		
6/6/2018	11			9.7	6.1	14				
9/10/2018				12						17
9/11/2018	12	37	26		14		19	1.5 (J)		
9/12/2018						14			26	
11/5/2018	17			16	18					
11/6/2018									26	17
11/7/2018		41	25			15	19	1.4 (J)		
3/26/2019	14.5	39.7	25.3	17.2	4.7			1.23		
3/27/2019						14.9	17.1		24.8	14.8
9/9/2019									23.8	14
9/10/2019	10.9	56.1	28	11		13.5	16.5	1.38		
9/11/2019					12.3					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25	GC-AP-MW-7	GC-AP-MW-24 (bg)
2/16/2016										
2/17/2016	16	11.8	12.5	14.6	22.3	16.4	16.6	22.9	62.7	3.3
4/12/2016		12.6			22.1	16.6		22.2		3.25
4/13/2016	21.5		13.6	14.9			17		57.8	
5/31/2016		12.9				16.8	19		55.6	
6/1/2016	52.5		14.2	15.9	22			22.3		3.55
8/15/2016	33.3		13.6	19.5	22.4					
8/16/2016		10.2					17			3.45
8/17/2016						16.4		22.1	53.3	
9/19/2016										
9/20/2016										
10/11/2016	22.2	10.2				15.2		21.8		3.78
10/12/2016			13.8	18.5	22.1		16.2		51.2	
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017	18.4	11.2	14.2	19	23.2	15.1		21.8		4.61
1/25/2017							18		44.8	
1/26/2017										
5/9/2017	30					17	23	23		
5/10/2017		14	18	24	26				44	5.9
6/27/2017	29	14	17	24	25					
6/28/2017						17	24	22	45	5.7
8/29/2017							15	22	43	6.8
8/30/2017	23	14	16	18	25	17				
6/4/2018	22									
6/5/2018		13	15	15	25	15	16		49	7.9
6/6/2018								20		
9/10/2018	22						13			
9/11/2018		14				14			52	6.1
9/12/2018			17	23	23			20		
11/5/2018							13			
11/6/2018	17	14	15	11	26	13		21		
11/7/2018									58	5.2
3/26/2019		13	9.27	9.52	25.4				71	6.92
3/27/2019	18					16.1	14.2	18.4		
9/9/2019				15.4	25.6					
9/10/2019	18.1	12.8	12.7				8.88	17.7	67	4.39
9/11/2019						11.6				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	31.8								
4/12/2016	28.9								
4/13/2016									
5/31/2016	28.7								
6/1/2016									
8/15/2016									
8/16/2016		2.21	4.88	2.54	5.32	4.24			
8/17/2016	32.2						1.77	1.78	2.44
9/19/2016			4.45		5.29	4.13			
9/20/2016		2.12		2.51			1.56	1.61	2.54
10/11/2016	34.2	2.24	4.36	2.34	5.26	4.07			
10/12/2016							1.54	1.51	2.67
11/14/2016			4.42		5.28	4.08			
11/15/2016		6.65		2.1			1.53	1.5	2.94
1/3/2017			5.18		5.18	4.06			
1/4/2017		2.15		2.44			1.58	1.53	2.92
1/23/2017				2.37				1.62	3.21
1/24/2017	38.1				5.41	4.4	1.71		
1/25/2017			5.66						
1/26/2017		2.31							
5/9/2017		2.3		2.8			2.1	2.2	2.5
5/10/2017	41		8		5.8	4.4			
6/27/2017		2.1	7.2	2.1	5.4	4	2	1.9 (J)	3
6/28/2017	36								
8/29/2017	35							2	3.6
8/30/2017		2.8	6.9	3	6	4.8	1.5 (J)		
6/4/2018									
6/5/2018	32	1.8 (J)	4.2	2.3	5.2	3.8	1.2 (J)	1.9 (J)	2.2
6/6/2018									
9/10/2018									
9/11/2018	36	<2	4.2	1.5 (J)	5.5	4.1	<2	<2	1.5 (J)
9/12/2018									
11/5/2018						3.9			
11/6/2018		<2	4.5	1.4 (J)	5.1		<2	1.9 (J)	2.5
11/7/2018	30								
3/26/2019	31.9	1.07		2.42			1.2	2.18	2
3/27/2019			4.33		5.26	3.9			
9/9/2019									
9/10/2019	27.3								
9/11/2019		1.19	4.16	3.72	5.31	4.21	1.26	1.7	2.34

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-13	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-2	GC-AP-MW-18
2/16/2016	0.14 (J)	0.16 (J)	0.13 (J)	0.23 (J)	0.16 (J)	0.08 (J)	0.18 (J)			
2/17/2016								0.05 (J)	0.09 (J)	0.15 (J)
4/12/2016	0.119 (J)		0.137 (J)							0.168 (J)
4/13/2016		0.163 (J)		0.236 (J)	0.15 (J)	0.088 (J)	0.191 (J)	0.061 (J)	0.092 (J)	
5/31/2016	0.132 (J)	0.19 (J)	0.149 (J)	0.255 (J)						
6/1/2016					0.19 (J)	0.109 (J)	0.201 (J)	0.079 (J)	0.108 (J)	0.178 (J)
8/15/2016								0.081 (J)	0.105 (J)	0.149 (J)
8/16/2016	0.177 (J)	0.219 (J)		0.238 (J)			0.218 (J)			
8/17/2016			0.147 (J)		0.171 (J)	0.089 (J)				
9/19/2016										
9/20/2016										
10/11/2016								0.049 (J)	0.062 (J)	
10/12/2016	0.149 (J)	0.163 (J)	0.115 (J)	0.198 (J)	0.137 (J)	0.048 (J)	0.171 (J)			0.12 (J)
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
3/13/2017										
3/14/2017			0.11					0.04 (J)	<0.1	0.17
3/15/2017	0.16	0.13		0.22	0.15	0.08 (J)	0.16			
5/9/2017	0.18	0.15	0.14				0.17	0.05 (J)	0.07 (J)	
5/10/2017				0.25	0.17	0.1				0.17
6/27/2017								0.04 (J)		0.18
6/28/2017	0.18	0.17	0.13	0.09 (J)	0.16	0.09 (J)	0.18		0.09 (J)	
8/29/2017	0.19	0.22	0.14	0.26	0.19	0.11	0.23			
8/30/2017								0.04 (J)	0.07 (J)	0.21
2/27/2018			0.13	0.26	0.19	0.11		0.07 (J)	0.08 (J)	
2/28/2018	0.14	0.19					0.2			0.17
6/4/2018								0.07 (J)	0.09 (J)	
6/5/2018				0.24	0.19	0.11				0.17
6/6/2018	0.13	0.19	0.15				0.19			
11/5/2018	0.15	0.2					0.22			
11/6/2018								0.04 (J)	0.07 (J)	0.17
11/7/2018			0.19	0.25	0.2	0.11				
3/26/2019	0.0775 (J)	0.196			0.223	0.162	0.219			0.192
3/27/2019			0.248	0.206				0.192	0.089 (J)	
9/9/2019									0.163	0.157
9/10/2019		0.26	0.209	0.226	0.178	0.113	0.194	0.179		
9/11/2019	0.118									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-7	GC-AP-MW-6	GC-AP-MW-16	GC-AP-MW-15	GC-AP-MW-11	GC-AP-MW-17	GC-AP-MW-25	GC-AP-MW-23 (bg)
2/16/2016										
2/17/2016	0.08 (J)	0.22 (J)	0.07 (J)	0.17 (J)	0.2 (J)	0.09 (J)	0.11 (J)	0.53	0.02 (J)	0.08 (J)
4/12/2016	0.083 (J)	0.214 (J)		0.203 (J)		0.107 (J)			0.021 (J)	0.077 (J)
4/13/2016			0.081 (J)		0.173 (J)		0.119 (J)	0.437		
5/31/2016		0.232 (J)	0.103 (J)	0.212 (J)		0.145 (J)	0.134 (J)			
6/1/2016	0.118 (J)				0.253 (J)			0.376	0.051 (J)	0.101 (J)
8/15/2016	0.109 (J)				0.224 (J)			0.362		
8/16/2016						0.135 (J)	0.116 (J)			0.093 (J)
8/17/2016		0.225 (J)	0.078 (J)	0.19 (J)					0.037 (J)	
9/19/2016										
9/20/2016										
10/11/2016	0.066 (J)	0.19 (J)		0.15 (J)		0.096 (J)			<0.1	0.059 (J)
10/12/2016			0.041 (J)		0.187 (J)		0.076 (J)	0.377		
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
3/13/2017										
3/14/2017	0.07 (J)	0.22	0.07 (J)	0.18	0.23	0.09 (J)	0.09 (J)	0.41	<0.1	0.07 (J)
3/15/2017										
5/9/2017	0.09 (J)	0.21					0.11		<0.1	0.08 (J)
5/10/2017			0.09 (J)	0.19	0.23	0.11		0.36		
6/27/2017					0.22	0.1		0.38		0.08 (J)
6/28/2017	0.1	0.21	0.08 (J)	0.18			0.17		0.04 (J)	
8/29/2017			0.09 (J)	0.22			0.14		<0.1	0.1
8/30/2017	0.12	0.25			0.28	0.13		0.38		
2/27/2018	0.09 (J)	0.23	0.08 (J)	0.22			0.14			0.08 (J)
2/28/2018					0.23	0.09 (J)		0.58	<0.1	
6/4/2018	0.1									
6/5/2018		0.24	0.08 (J)	0.23	0.28	0.13	0.16	0.41		0.09 (J)
6/6/2018									<0.1	
11/5/2018							0.15			
11/6/2018	0.1	0.22			0.24	0.12		0.45	<0.1	
11/7/2018			0.08 (J)	0.22						0.08 (J)
3/26/2019			0.106	0.253	0.316	0.113		0.573		0.123
3/27/2019	0.13	0.208					0.104		<0.1	
9/9/2019	0.121							0.477		
9/10/2019			0.086 (J)	0.227	0.267	0.122	0.191		<0.1	0.0914 (J)
9/11/2019		0.2								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/21/2020 1:30 PM View: Interwell PL

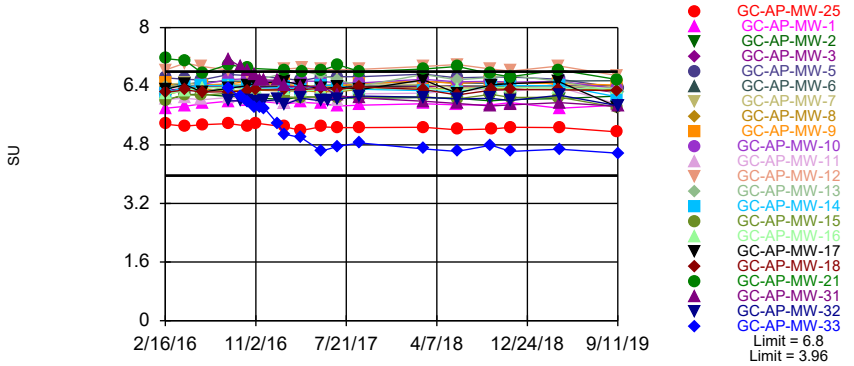
Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-24 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	0.02 (J)								
4/12/2016	0.026 (J)								
4/13/2016									
5/31/2016									
6/1/2016	0.057 (J)								
8/15/2016									
8/16/2016	0.046 (J)	0.036 (J)	0.054 (J)	0.05 (J)	0.087 (J)	0.061 (J)			
8/17/2016							0.039 (J)	0.159 (J)	0.055 (J)
9/19/2016			0.023 (J)		0.045 (J)	0.018 (J)			
9/20/2016		<0.1		0.015 (J)			0.01 (o)	0.126 (J)	0.021 (o)
10/11/2016	<0.1	<0.1	0.011 (J)	<0.1	0.034 (J)	<0.1			
10/12/2016							<0.1	0.1 (J)	<0.1
11/14/2016			<0.1		<0.1	<0.1			
11/15/2016		<0.1		<0.1			<0.1	0.016 (J)	<0.1
1/3/2017			<0.1		<0.1	<0.1			
1/4/2017		<0.1		<0.1			<0.1	<0.1	<0.1
3/13/2017				<0.1				0.31 (o)	
3/14/2017	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1		<0.1
3/15/2017									
5/9/2017		<0.1		<0.1			<0.1	0.25 (o)	<0.1
5/10/2017	<0.1		0.05 (J)		0.05 (J)	0.06 (J)			
6/27/2017		<0.1	0.04 (J)	<0.1	0.05 (J)	0.07 (J)	<0.1	0.22 (o)	<0.1
6/28/2017	<0.1								
8/29/2017	0.04 (J)						<0.1	0.22 (o)	
8/30/2017		<0.1	0.04 (J)	<0.1	<0.1	0.08 (J)			<0.1
2/27/2018	<0.1	<0.1	0.04 (J)	<0.1	<0.1	0.07 (J)	<0.1	0.08 (J)	<0.1
2/28/2018									
6/4/2018									
6/5/2018	0.04 (J)	<0.1	0.04 (J)	<0.1	<0.1	0.1	<0.1	0.07 (J)	<0.1
6/6/2018									
11/5/2018			<0.1						
11/6/2018		<0.1		<0.1	<0.1	0.08 (J)	<0.1	0.07 (J)	<0.1
11/7/2018	<0.1								
3/26/2019	<0.1	<0.1		<0.1			<0.1	<0.1	<0.1
3/27/2019			<0.1		<0.1	<0.1			
9/9/2019									
9/10/2019	0.0545 (J)								
9/11/2019		<0.1	0.0518 (J)	<0.1	<0.1	<0.1	<0.1	0.0716 (J)	0.0649 (J)

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 122 background values. Annual per-constituent alpha = 0.01244. Individual comparison alpha = 0.00026 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: pH Analysis Run 1/21/2020 1:29 PM View: Interwell PL

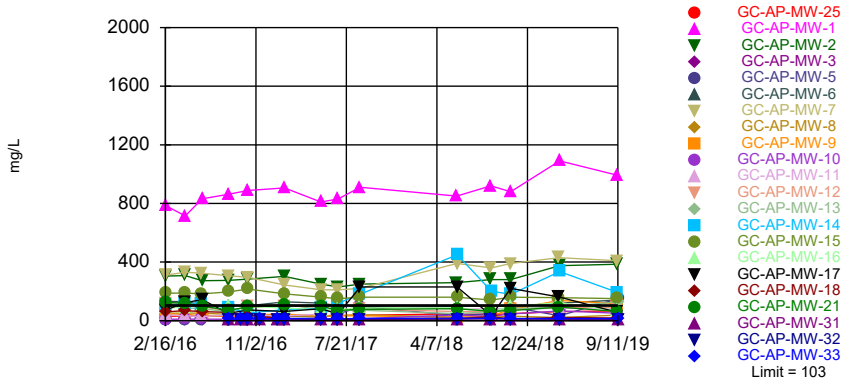
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-9, GC-AP-MW-13,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 26.53% NDs. Annual per-constituent alpha = 0.009488. Individual comparison alpha = 0.0001986 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

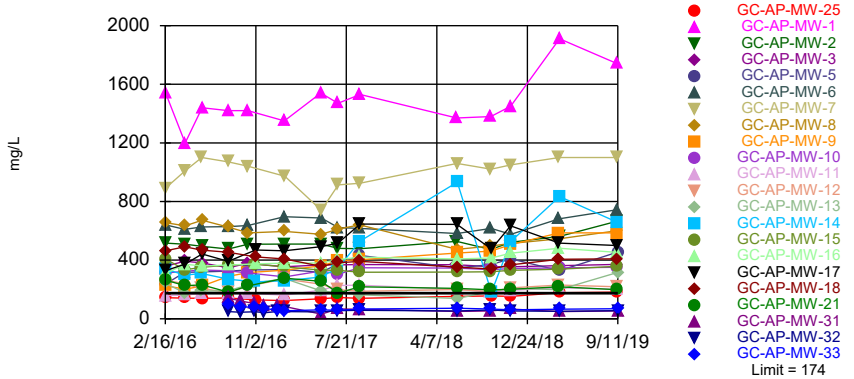
Constituent: Sulfate Analysis Run 1/21/2020 1:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 16.33% NDs. Annual per-constituent alpha = 0.009488. Individual comparison alpha = 0.0001986 (1 of 2). Comparing 22 points to limit. Assumes 2 future values.

Constituent: TDS Analysis Run 1/21/2020 1:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: pH (SU) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-10	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-25
2/16/2016	6.5	6.4	6.16	6.21	7.15	6.84	6.29			
2/17/2016								6.32	6.63	5.36
4/12/2016		6.41		6.37					6.59	5.31
4/13/2016	6.32		6.29		7.1	7.03	6.21	6.44		
5/31/2016		6.22		6.42		6.94	6.45		6.57	
6/1/2016	6.43		6.33		6.76			6.24		5.35
8/15/2016								6.34		
8/16/2016		6.41			6.99	6.84	6.58			
8/17/2016	6.46		6.27	6.42					6.72	5.38
9/19/2016										
9/20/2016										
10/11/2016									6.69	5.31
10/12/2016	6.53	6.42	6.3	6.38	6.89	6.75	6.6	6.42		
10/31/2016										
11/1/2016		6.55		6.33						
11/2/2016								6.48		5.39
11/14/2016										
11/15/2016										
11/28/2016										
11/29/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								6.53	6.61	5.29
1/25/2017	6.45	6.76	6.27	6.37	6.84	6.87	6.47			
1/26/2017										
3/13/2017										
3/14/2017				6.3				6.43	6.55	5.19
3/15/2017	6.39	6.82	6.27		6.78	6.9	6.54			
5/9/2017		6.7		6.43	6.83	6.85			6.65	5.29
5/10/2017	6.39		6.25				6.53	6.33		
5/31/2017										
6/27/2017								6.38		
6/28/2017	6.4	6.58	6.25	6.4	6.98	6.85	6.49		6.66	5.27
8/29/2017	6.47	6.4	6.32	6.32	6.8	6.86	6.49			5.27
8/30/2017								6.31	6.66	
2/27/2018	6.54		6.36	6.28			6.59		6.73	
2/28/2018		6.72			6.87	6.94		6.57		5.28
6/4/2018										
6/5/2018	6.47		6.3				6.52	6.21	6.63	
6/6/2018		6.57		6.25	6.94	6.99				5.21
9/10/2018					6.74					
9/11/2018	6.53	6.64	6.36			6.87	6.53		6.65	
9/12/2018				6.42				6.43		5.23
11/5/2018		6.69			6.66	6.81				
11/6/2018								6.47	6.65	5.28
11/7/2018	6.49		6.31	6.42			6.51			
3/26/2019	6.47	6.54	6.32		6.84	6.95		6.52		
3/27/2019				6.41			6.53		6.59	5.27
9/9/2019								5.84		
9/10/2019	6.43		6.31	6.11	6.58	6.69	6.33			5.15
9/11/2019		6.22							6.36	

Prediction Limit

Constituent: pH (SU) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-18	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)	GC-AP-MW-3	GC-AP-MW-16
2/16/2016										
2/17/2016	5.8	6.02	6.23	6.46	6.45	6.01	5.39	6.8	6.29	6.18
4/12/2016		6.17	6.3	6.45			5.29	6.54	6.33	
4/13/2016	5.85				6.49	6.17				6.28
5/31/2016		6.15		6.51	6.43					
6/1/2016	5.92		6.24			6.18	5.39	6.49	6.4	6.36
8/15/2016	5.99		6.25			6.12			6.36	6.37
8/16/2016		6.21					5.51	6.57		
8/17/2016				6.54	6.43					
9/19/2016										
9/20/2016										
10/11/2016	6.02	6.14		6.53		6.09	5.44	6.54	6.38	
10/12/2016			6.26		6.46					6.32
10/31/2016										
11/1/2016		6.15								
11/2/2016			6.3				5.49	6.54		6.33
11/14/2016										
11/15/2016										
11/28/2016										
11/29/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017	5.92	6.11	6.3	6.44		6.04	5.44	6.42	6.34	6.29
1/25/2017					6.43					
1/26/2017										
3/13/2017										
3/14/2017	5.96	6.09	6.31	6.4	6.41	6.11	5.48	6.59	6.42	6.27
3/15/2017										
5/9/2017	5.93					6.1		6.42	6.35	
5/10/2017		6.11	6.34	6.4	6.41		5.43			6.3
5/31/2017										
6/27/2017	5.86	6.09	6.32					6.44		6.28
6/28/2017				6.46	6.46	6.09	5.49		6.32	
8/29/2017				6.47	6.46		5.46	6.43		
8/30/2017	5.88	6.1	6.38			6.07			6.32	6.34
2/27/2018	5.92			6.53	6.45	6.09	5.48	6.49	6.39	
2/28/2018		6.11	6.31							6.33
6/4/2018	5.89					6.07			6.4	
6/5/2018		6.05	6.16	6.49	6.36		5.31	6.43		6.29
6/6/2018										
9/10/2018	5.89					6				
9/11/2018		6.18		6.48	6.38		5.36	6.35		
9/12/2018			6.29						6.35	6.36
11/5/2018										
11/6/2018	5.95	6.09	6.31			6.04			6.34	6.37
11/7/2018				6.48	6.37		5.34	6.37		
3/26/2019		6.1	6.3	6.54	6.39		5.32	6.46		6.34
3/27/2019	5.8					6.06			6.44	
9/9/2019			6.28			6.13			6.22	
9/10/2019	5.88	5.82		6.55	6.39		4.9	5.85		6.35
9/11/2019										

Prediction Limit

Constituent: pH (SU) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-26 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	6.04								
4/12/2016									
4/13/2016	6.07								
5/31/2016	6.03								
6/1/2016									
8/15/2016									
8/16/2016	6.09	5.39	6	6.21	7.13	6.34			
8/17/2016							5.85	6.15	5.47
9/19/2016			6		6.94	6.11			
9/20/2016		5.37		6.05			5.82	4.99	5.22
10/11/2016		5.39	6.02	6.2	6.82	5.99			
10/12/2016	6.06						5.76	4.88	5.1
10/31/2016		5.36		6.61				4.87	
11/1/2016			5.97		6.71	5.84			
11/2/2016									
11/14/2016			5.98		6.57	5.83			
11/15/2016		5.33		6.64			5.79	4.81	5.07
11/28/2016			6		6.57	5.79			
11/29/2016		5.33		6.39			5.73	4.84	5.1
1/3/2017			6.03		6.56	5.39			
1/4/2017		5.49		6.06			5.69	4.88	5.3
1/23/2017		5.48					5.45		5.12
1/24/2017			5.9		6.41			5.4	
1/25/2017	5.94					5.09			
1/26/2017				6.02					
3/13/2017				5.68			4.8		
3/14/2017	6.08	5.17	6.07		6.37	4.99		5.13	4.74
3/15/2017									
5/9/2017	6.07	5.11		5.05			4.82	4.96	4.83
5/10/2017			6		6.41	4.63			
5/31/2017			6.02						
6/27/2017		5.29	6.05	4.9	6.14	4.76	5.27	5.34	4.87
6/28/2017	6.02								
8/29/2017	6.19						5.28		4.71
8/30/2017		5.09	6.13	4.73	6.08	4.85		4.69	
2/27/2018	6.21	5.25	6.1	4.87	5.99	4.69	5.11	4.91	4.96
2/28/2018									
6/4/2018									
6/5/2018	6.27	5.12	6.05	4.89	5.93	4.62	5.24	4.87	5
6/6/2018									
9/10/2018	6.33								
9/11/2018		5.19	6.07	4.88	5.86	4.79	5.28	4.65	4.94
9/12/2018									
11/5/2018	6.26		6.01						
11/6/2018		5.12		4.86	5.89	4.62	5.54	4.67	4.9
11/7/2018									
3/26/2019		5.16		4.97			5.4	4.92	4.96
3/27/2019	6.37		6.15		5.95	4.68			
9/9/2019									
9/10/2019	5.91								
9/11/2019		4.11	5.87	3.96	5.85	4.57	5.53	4.33	4.85

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-23 (bg)	GC-AP-MW-3	GC-AP-MW-2
2/16/2016	119	49.4	45.2	125	113	108	9.03			
2/17/2016								14.7	<1	304
4/12/2016					86.7	114		20	0.49 (J)	
4/13/2016	122	51.7	43.9	119			10.7			307
5/31/2016	94.3				83.1	114	10.2			
6/1/2016		51.2	32	99.2				20.1	0.544 (J)	273
8/15/2016									0.332 (J)	275
8/16/2016	67.1			71.9	59.3		9.1	19.1		
8/17/2016		42.9	31.9			85.4				
9/19/2016										
9/20/2016										
10/11/2016								18.4	<1	284
10/12/2016	94.1	39.5	39.6	93.9	99.3	53.5	7.24			
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								15	<1	302
1/25/2017	101	31.3	44	103	113	75.4	9.71			
1/26/2017										
5/9/2017	91			100	74	84		14	2.1 (J)	250
5/10/2017		30	32				11			
6/27/2017								14		
6/28/2017	71	35	34	69	71	120	10		<1	230
8/29/2017	80	40	34	77	72	180	14	16		
8/30/2017									<1	250
6/4/2018									1.4 (J)	260
6/5/2018		25	22				39	14		
6/6/2018	62			81	48	450				
9/10/2018				64						280
9/11/2018	63	23	33		62		29	13		
9/12/2018						200			<1	
11/5/2018	74			68	81					
11/6/2018									<1	280
11/7/2018		30	76			180	45	14		
3/26/2019	92.3	21.6	138	92	92.4			12.3		
3/27/2019						335	66.2		6.64	375
9/9/2019									6.56	385
9/10/2019	89.3	37.4	115	63.1		193	50.5	12.4		
9/11/2019					128					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25	GC-AP-MW-7	GC-AP-MW-24 (bg)
2/16/2016										
2/17/2016	785	187	87.4	72.3	60.2	<1	40.2	28.7	311	10.4
4/12/2016		188			68.2	0.483 (J)		32.5		11.3
4/13/2016	715		92.7	123			33.1		330	
5/31/2016		183				0.518 (J)	28.1		324	
6/1/2016	832		111	144	61.4			31.9		10.4
8/15/2016	862		98.3	50.1	56					
8/16/2016		196					38.5			12.2
8/17/2016						3.63		30.5	306	
9/19/2016										
9/20/2016										
10/11/2016	888	216				15.6		32.3		19.8
10/12/2016			99.3	72.6	36.6		38.3		296	
11/14/2016										
11/15/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017	906	183	85.4	63.4	12.3	28.9		33.5		30.7
1/25/2017							32		243	
1/26/2017										
5/9/2017	810					25	44	33		
5/10/2017		160	74	82	10				210	33
6/27/2017	830	150	75	44	9.7					
6/28/2017						45	88	35	210	56
8/29/2017							110	37	220	61
8/30/2017	910	160	87	230	7.8	96				
6/4/2018	850									
6/5/2018		160	87	230	13	36	79		390	97
6/6/2018								47		
9/10/2018	920						80			
9/11/2018		140				48			360	83
9/12/2018			63	33	28			41		
11/5/2018							81			
11/6/2018	880	160	97	220	11	93		48		
11/7/2018									390	91
3/26/2019		157	123	161	21.3				430	103
3/27/2019	1090					33.4	83.2	62.4		
9/9/2019				57.3	17.8					
9/10/2019	992	150	68				87.2	66	409	83.4
9/11/2019						149				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	132								
4/12/2016	130								
4/13/2016									
5/31/2016	111								
6/1/2016									
8/15/2016									
8/16/2016		0.894 (J)	9.33	0.702 (J)	1.78	2.06			
8/17/2016	95.8						6.46	0.928 (J)	16.2
9/19/2016			11.2		2.06	1.44			
9/20/2016		<1		<1			8.3	0.478 (J)	14.9
10/11/2016	101	<1	12.6	<1	2.33	1.38			
10/12/2016							8.36	0.727 (J)	12.4
11/14/2016			12.4		2.31	1.15			
11/15/2016		1.19		<1			8.75	0.448 (J)	8.6
1/3/2017			14.3		2.81	1.57			
1/4/2017		<1		<1			7.85	0.627 (J)	12.2
1/23/2017				0.493 (J)				1.34	16
1/24/2017	129				3.34	2.06	6.62		
1/25/2017			15.2						
1/26/2017		0.6 (J)							
5/9/2017		<1		<1			5.6	<1	55
5/10/2017	120		12		2.9 (J)	2.1 (J)			
6/27/2017		<1	13	<1	3.4 (J)	2.7 (J)	5.3	<1	45
6/28/2017	100								
8/29/2017	95							<1	37
8/30/2017		<1	15	<1	3.7 (J)	2.6 (J)	8.2		
6/4/2018									
6/5/2018	98	1.4 (J)	17	<1	3.7 (J)	3.1 (J)	8.3	2.1 (J)	9.3
6/6/2018									
9/10/2018									
9/11/2018	100	<1	16	<1	2.2 (J)	1.6 (J)	8.9	<1	7.8
9/12/2018									
11/5/2018						2.4 (J)			
11/6/2018		<1	15	<1	3.1 (J)		8.6	<1	6
11/7/2018	97								
3/26/2019	120	0.594 (J)		<1			10.1	1.66	6.86
3/27/2019			15.1		3.55	3.24			
9/9/2019									
9/10/2019	140								
9/11/2019		<1	14.5	<1	3.83	2.66	10.6	1.29	5.29

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-23 (bg)	GC-AP-MW-3	GC-AP-MW-2
2/16/2016	264	656	226	264	242	340	312			
2/17/2016								142	358	516
4/12/2016					176	298		155	393	
4/13/2016	238	634	202	226			324			508
5/31/2016	206				189	309	333			
6/1/2016		672	224	231				148	381	494
8/15/2016									348	476
8/16/2016	180			181	192		327	132		
8/17/2016		624	290			269				
9/19/2016										
9/20/2016										
10/11/2016									379	508
10/12/2016	223	586	315	225			312			
10/31/2016										
11/1/2016					244	252				
11/2/2016								115		
11/28/2016										
11/29/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017								107	354	510
1/25/2017	271	596	332	277	274	259	286			
1/26/2017										
5/9/2017	236			255	191	285		80.7	368	510
5/10/2017		576	361				326			
6/27/2017								96.7		
6/28/2017	198	612	396	175	176	348	304		368	480
8/29/2017	187	640	402	218	163	528	348	120		
8/30/2017									370	478
6/4/2018									369	528
6/5/2018		474	448				346	113		
6/6/2018	199			207	138	932				
9/10/2018				197						472
9/11/2018	184	496	462		185		335	108		
9/12/2018						180			354	
11/5/2018	210			200	208					
11/6/2018									354	522
11/7/2018		514	506			528	342	96.7		
3/26/2019	230	546	586	218	198			103		
3/27/2019						834	347		362	562
9/9/2019									371	666
9/10/2019	218 (D)	601 (D)	586	198		658	351	107		
9/11/2019					316					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25	GC-AP-MW-7	GC-AP-MW-24 (bg)
2/16/2016										
2/17/2016	1540	408	310	328	464	238	158	144	892	53
4/12/2016		334			491	316		140		38.7
4/13/2016	1200		372	373			161		1010	
5/31/2016		351				320	173		1100	
6/1/2016	1440		360	442	468			139		46
8/15/2016	1420		366	392	454					
8/16/2016		367					173			48
8/17/2016						325		142	1070	
9/19/2016										
9/20/2016										
10/11/2016	1420					333				
10/12/2016							173		1040	
10/31/2016										
11/1/2016		372								
11/2/2016			374	469	422			128		66.7
11/28/2016										
11/29/2016										
1/3/2017										
1/4/2017										
1/23/2017										
1/24/2017	1350	354	380	464	408	336		124		78.7
1/25/2017							161		972	
1/26/2017										
5/9/2017	1540					317	195	136		
5/10/2017		332	381	492	358				740	92.7
6/27/2017	1470	331	404	516	382					
6/28/2017						373	227	145	914	118
8/29/2017							229	139	924	128
8/30/2017	1530	317	420	646	392	432				
6/4/2018	1370									
6/5/2018		318	408	644	352	347	200		1060	171
6/6/2018								153		
9/10/2018	1380						183			
9/11/2018		321				370			1020	170
9/12/2018			415	476	339			156		
11/5/2018							193			
11/6/2018	1450	331	447	634	368	409		153		
11/7/2018									1050	163
3/26/2019		338 (D)	481	516	406				1100	174
3/27/2019	1910					328	211	178		
9/9/2019				500	409 (D)					
9/10/2019	1740	358	453				201	182	1100	167
9/11/2019						455				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/21/2020 1:31 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	640								
4/12/2016	610								
4/13/2016									
5/31/2016	626								
6/1/2016									
8/15/2016									
8/16/2016		41.3	101	<25	142	49.3			
8/17/2016	628						65.3	36.7	64
9/19/2016			80		121	44.7			
9/20/2016		42.7		26.7			44	25.3	60
10/11/2016	636								
10/12/2016								<25	54.7
10/31/2016		140		25.3			38.7		
11/1/2016			78		103	48			
11/2/2016									
11/28/2016			68.7		84	40.7			
11/29/2016		78		<25			34	<25	42
1/3/2017			60.7		89.3	49.3			
1/4/2017		34		34.7			42	27.3	56
1/23/2017				33.3				<25	50.7
1/24/2017	696				83.3	48.7	45.3		
1/25/2017			54.7						
1/26/2017		32.7							
5/9/2017		<25		<25			49.3	28.7	126
5/10/2017	687		60.7		31.3	46.7			
6/27/2017		30.7	58	<25	67.3	55.3	46	27.3	93.3
6/28/2017	622								
8/29/2017	616							30.7	84
8/30/2017		25.3	66.7	28	64	57.3	38.7		
6/4/2018									
6/5/2018	582	<25	71.3	28.7	50	52.7	34.7	26	38.7
6/6/2018									
9/10/2018									
9/11/2018	616	<25	66.7	29.3	53.3	60	34.7	<25	35.3
9/12/2018									
11/5/2018						53.3			
11/6/2018		<25	61.3	<25	66		36	26	40.7
11/7/2018	576								
3/26/2019	682	<25		19.9 (D)			30	<25	36.7
3/27/2019			65.3		48.7	51.35 (D)			
9/9/2019									
9/10/2019	744								
9/11/2019		<25	68.3 (D)	34	52.7	55.3	40	27.3	40.7

Trend Test Summary Table

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-23 (bg)	0	19	43	No	13	76.92	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	43	No	13	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004402	34	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	2	43	No	13	92.31	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	11	43	No	13	84.62	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	2	43	No	13	92.31	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	6	43	No	13	92.31	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	43	No	13	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-1	0.01707	35	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003495	12	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.01151	31	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1548	-43	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-7**	**0.07671**	**56**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-8**	**0.08582**	**46**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-9**	**0.2669**	**71**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-10	-0.03387	-14	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-11**	**-0.1323**	**-60**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-12**	**-0.04543**	**-44**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-13	-0.03525	-20	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.1976	42	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-15**	**0.0657**	**49**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-16	0.03224	15	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.05021	26	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.1104	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.03739	-40	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-3.388	-39	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-24 (bg)**	**8.998**	**81**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.815	-31	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.138	-35	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.2613	-41	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-29 (bg)**	**-0.531**	**-73**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.01404	-3	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-11.41	-27	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	1.774	26	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	3.724	25	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-5**	**6.232**	**71**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-6	3.498	22	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	9.339	18	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	-0.8444	-11	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-9**	**27**	**82**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-10	1.41	21	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	1.755	25	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-14**	**29.15**	**53**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-15	1.601	25	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-16**	**9.454**	**74**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GC-AP-MW-17**	**13.07**	**63**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-18	-7.151	-35	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.03911	-22	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-24 (bg)**	**1.166**	**53**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GC-AP-MW-25**	**-1.128**	**-62**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.146	-18	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.1145	22	48	No	14	7.143	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1955	-39	-48	No	14	14.29	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.4179	-38	-48	No	14	14.29	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	-0.05131	-10	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-2.414	-26	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	0.4867	36	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0.09217	11	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.7778	-35	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	-0.1111	-2	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	0.07783	1	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-8**	**-8.989**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GC-AP-MW-9**	**4.085**	**73**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-10	-0.2298	-13	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-1.56	-41	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	0.7916	14	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	0.07788	1	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.3498	-12	-48	No	14	0	n/a	n/a	0.01	NP

Trend Test Summary Table

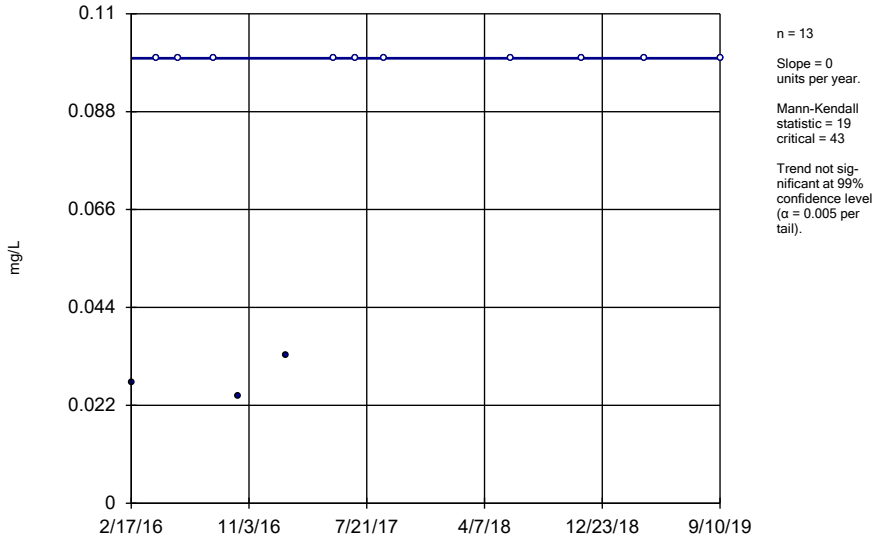
Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	0.482	29	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	0.5454	15	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.4475	-4	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-18**	**1.043**	**52**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-21	1.103	23	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.004218	23	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.006518	25	48	No	14	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.01632	-19	-30	No	10	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	12	43	No	13	92.31	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	1	43	No	13	84.62	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	23	48	No	14	85.71	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	13	48	No	14	92.86	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-1	0.001738	9	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-2	-0.00...	-9	-48	No	14	7.143	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	-0.00203	-11	-48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-6**	**0.01693**	**50**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-9	0.01467	43	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.001109	3	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.0153	33	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.0147	41	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02109	39	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-16**	**0.02416**	**49**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-17	0.02425	27	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.002173	23	48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	0.007897	22	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-23 (bg)**	**-2.183**	**-61**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-24 (bg)**	**31.05**	**78**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-3.2	-41	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.5138	33	48	No	14	35.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.7165	36	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	-9	-48	No	14	64.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	-9	-48	No	14	85.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-1**	**62.57**	**55**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-2	2.877	7	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-5**	**30.31**	**69**	**48**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-6	-2.203	-17	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	27.49	23	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	1.862	15	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	-6.259	-8	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	42.52	45	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-15**	**-12**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-23 (bg)	-12.56	-47	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-24 (bg)**	**48.04**	**73**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-25	9.777	45	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-8.795	-36	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0	-5	-48	No	14	35.71	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-4.333	-31	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-29 (bg)**	**-13.34**	**-62**	**-48**	**Yes**	**14**	**42.86**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-30 (bg)	1.172	15	48	No	14	35.71	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	70.46	23	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	6.952	23	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-2.747	-11	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-5**	**36.54**	**59**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-6	-3.715	-4	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	24.47	24	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-37.88	-41	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-9**	**109.7**	**86**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-10	10.26	44	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-11**	**13.47**	**51**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-12	-7.43	-17	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	2.3	4	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	105.5	30	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	-8.277	-28	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-16**	**34.76**	**81**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-17**	**72.38**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-18	-38.61	-47	-48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-10.45	-34	-48	No	14	0	n/a	n/a	0.01	NP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 19 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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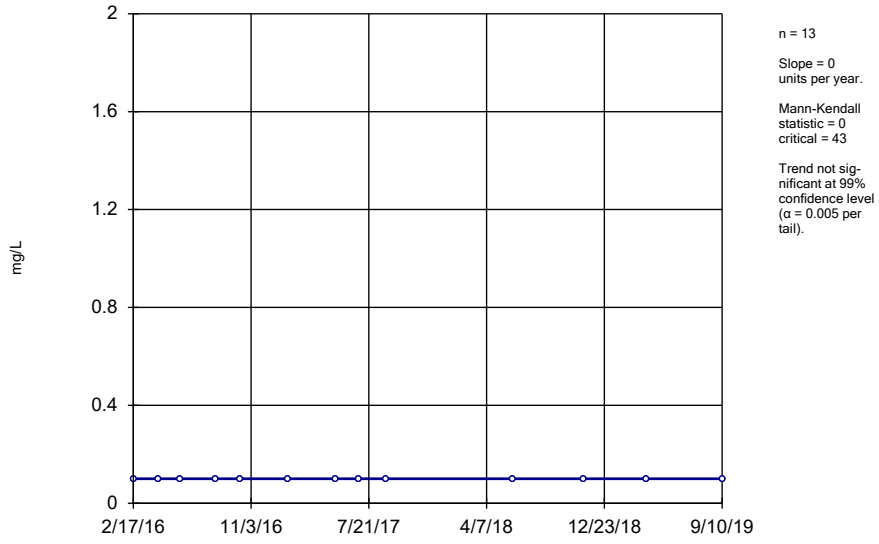
Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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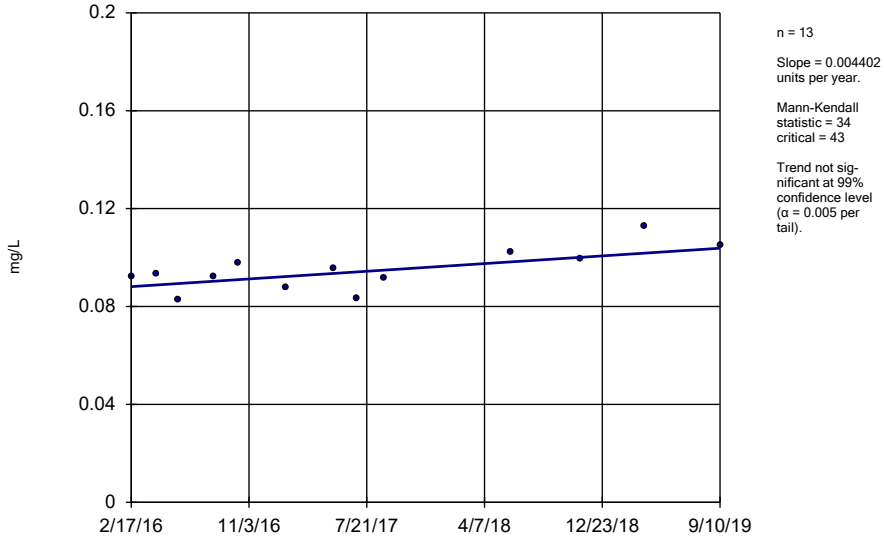
Sen's Slope Estimator

GC-AP-MW-25



n = 13

Slope = 0.004402 units per year.

Mann-Kendall statistic = 34 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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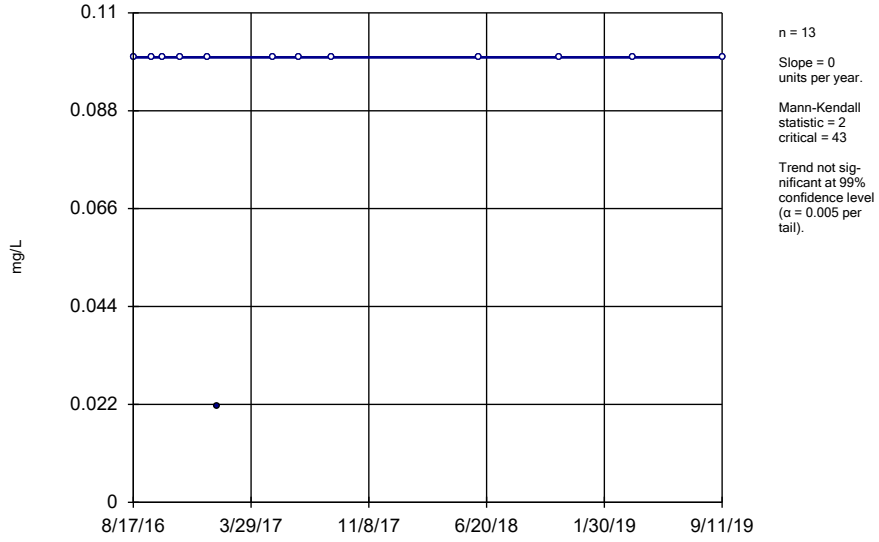
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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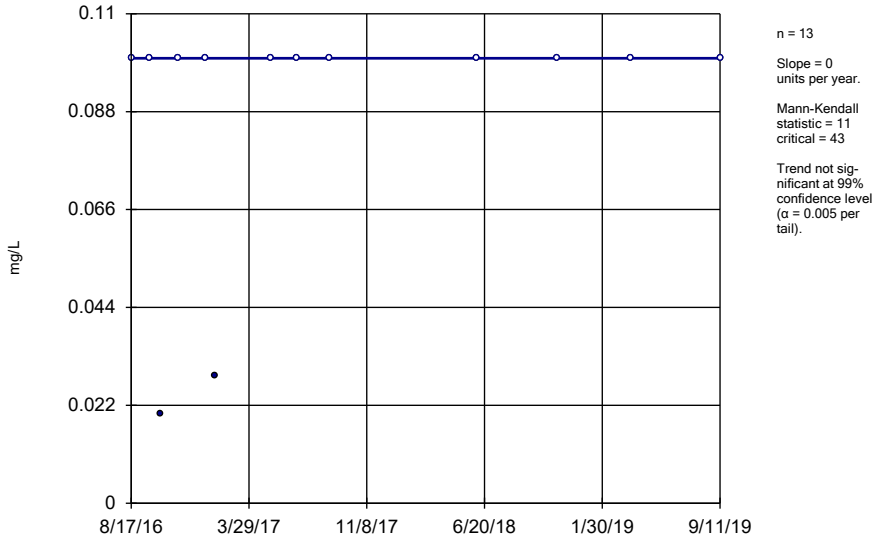
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 11 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:32 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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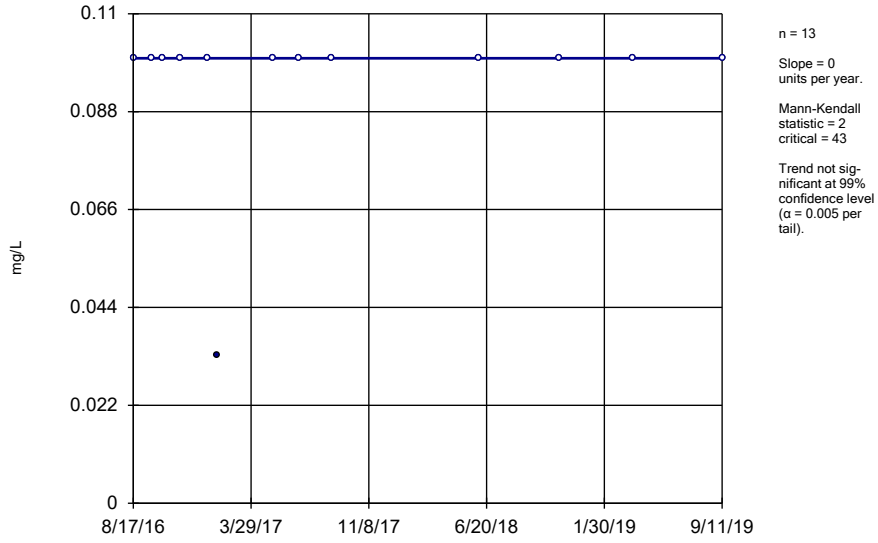
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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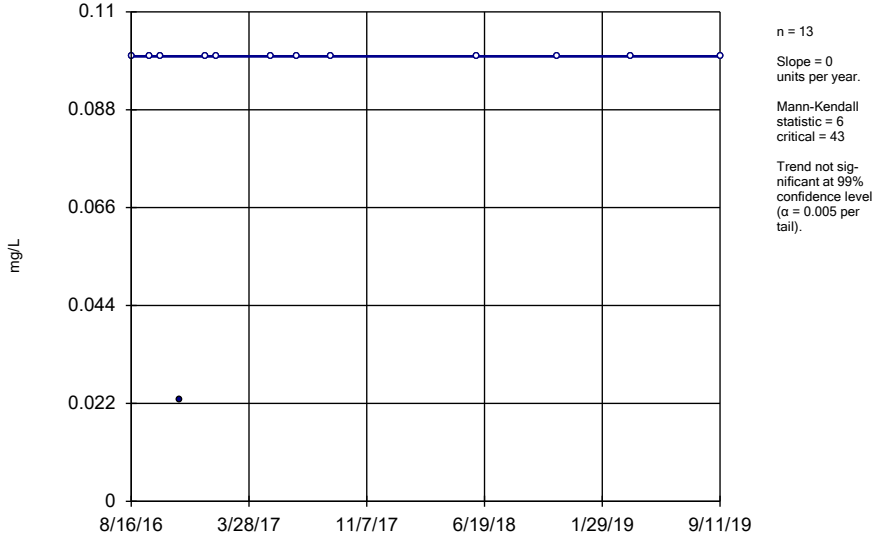
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 6 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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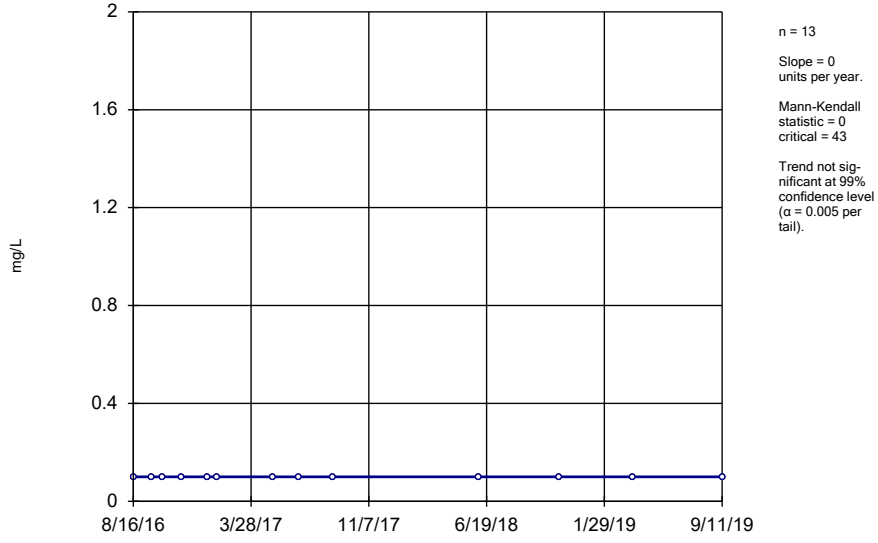
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 13

Slope = 0 units per year.

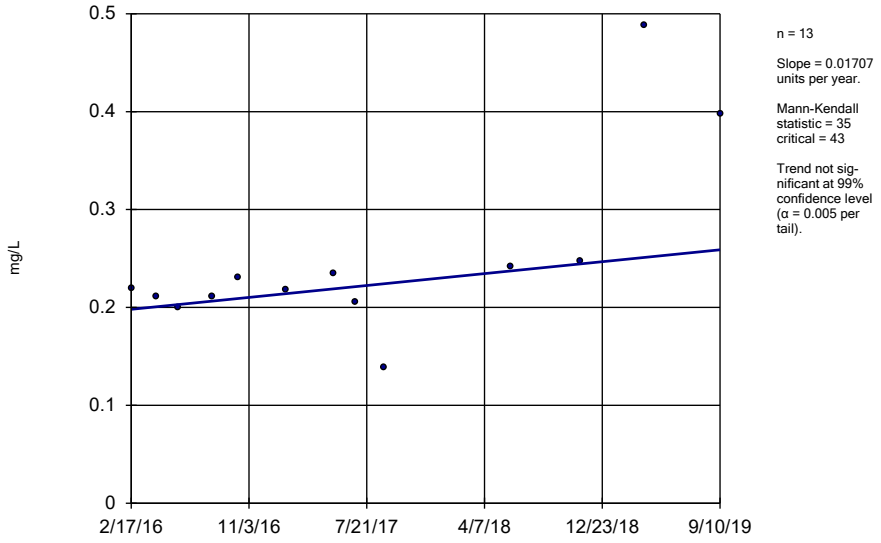
Mann-Kendall statistic = 0 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1



n = 13

Slope = 0.01707 units per year.

Mann-Kendall statistic = 35
critical = 43

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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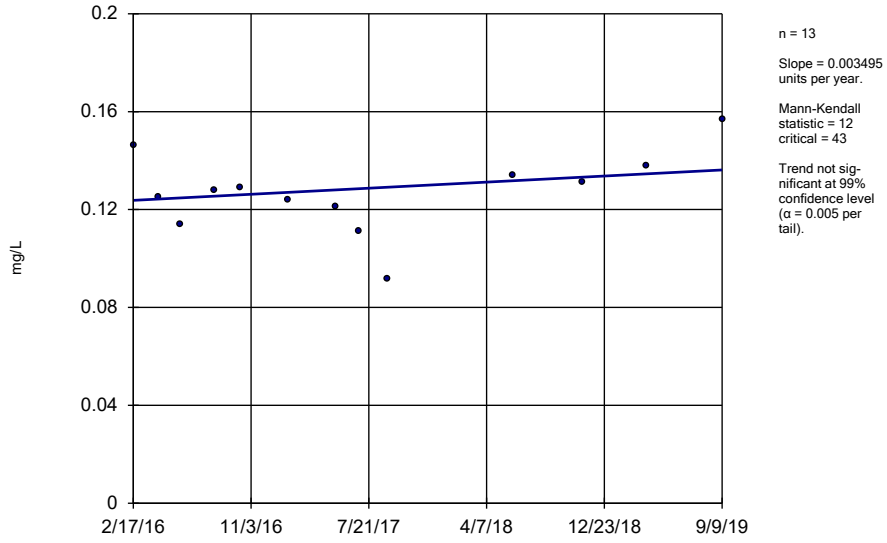
Sen's Slope Estimator

GC-AP-MW-2



n = 13

Slope = 0.003495 units per year.

Mann-Kendall statistic = 12
critical = 43

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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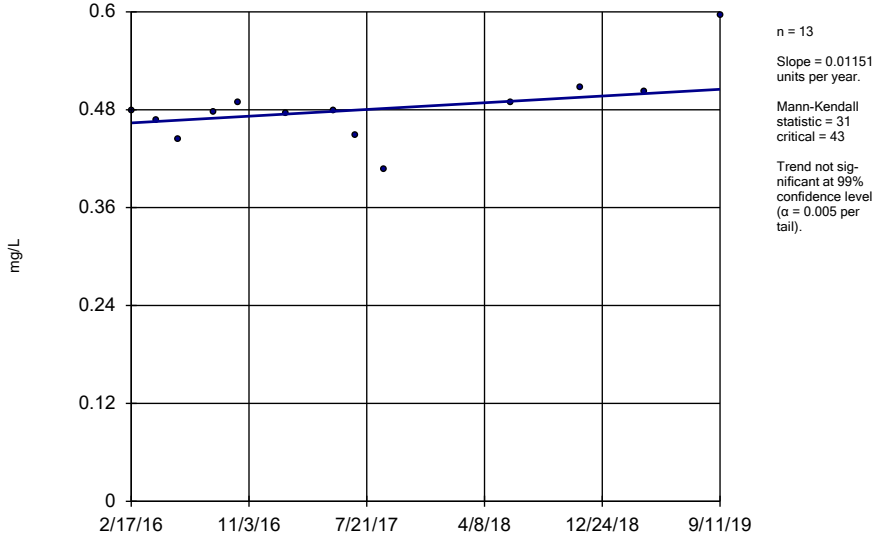
Sen's Slope Estimator

GC-AP-MW-5



n = 13

Slope = 0.01151 units per year.

Mann-Kendall statistic = 31
critical = 43

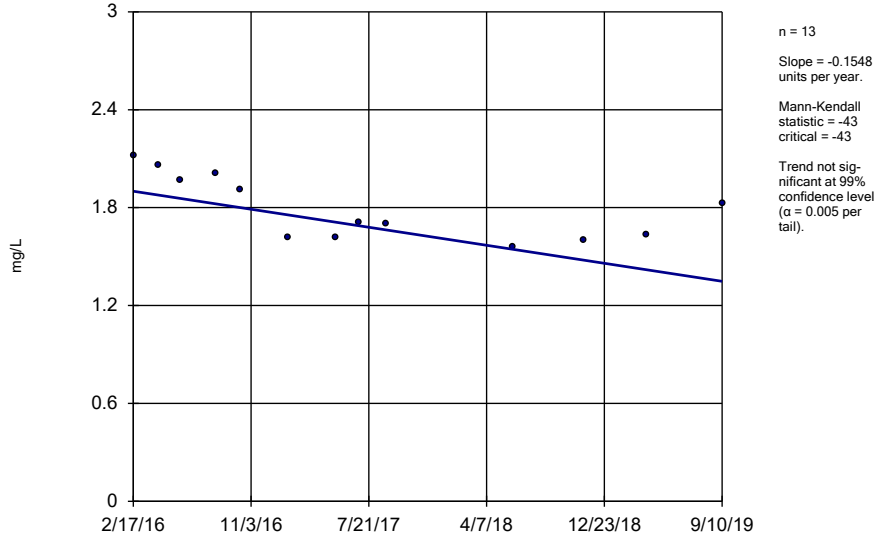
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 13

Slope = -0.1548 units per year.

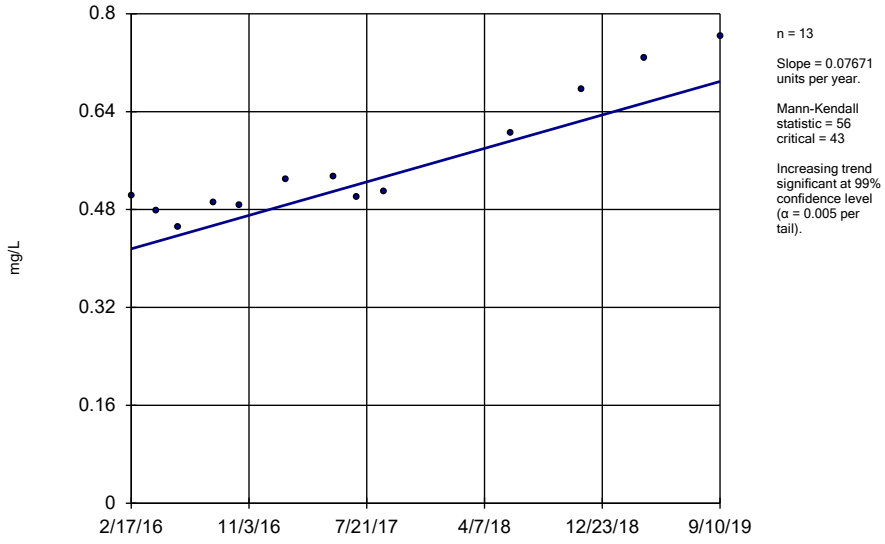
Mann-Kendall statistic = -43
critical = -43

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7



n = 13

Slope = 0.07671 units per year.

Mann-Kendall statistic = 56
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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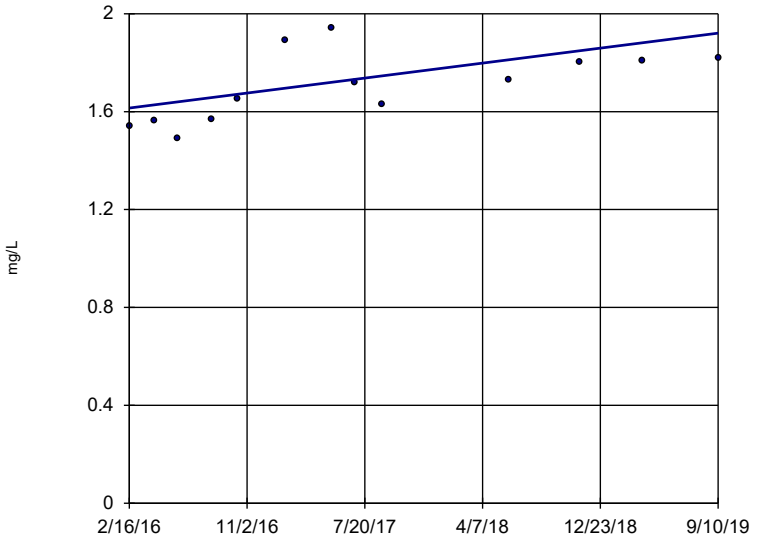
Sen's Slope Estimator

GC-AP-MW-8



n = 13

Slope = 0.08582 units per year.

Mann-Kendall statistic = 46
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

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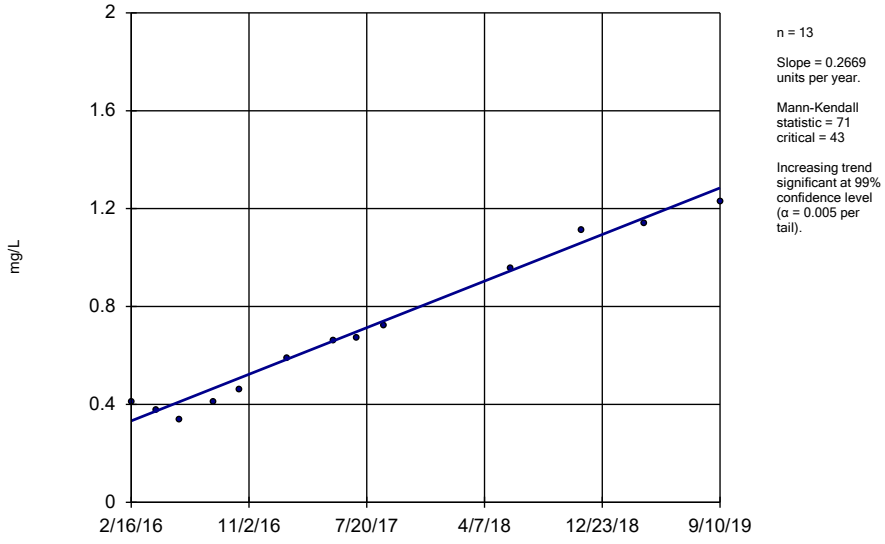
Sen's Slope Estimator

GC-AP-MW-9



n = 13

Slope = 0.2669 units per year.

Mann-Kendall statistic = 71
critical = 43

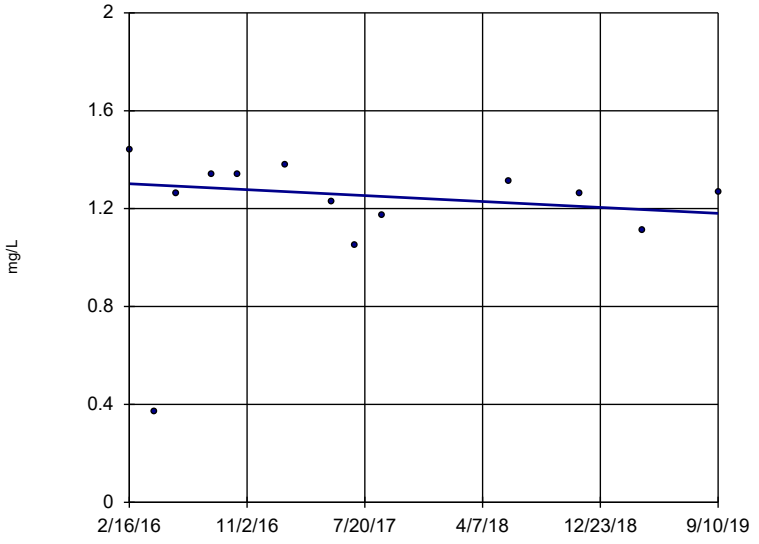
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 13

Slope = -0.03387 units per year.

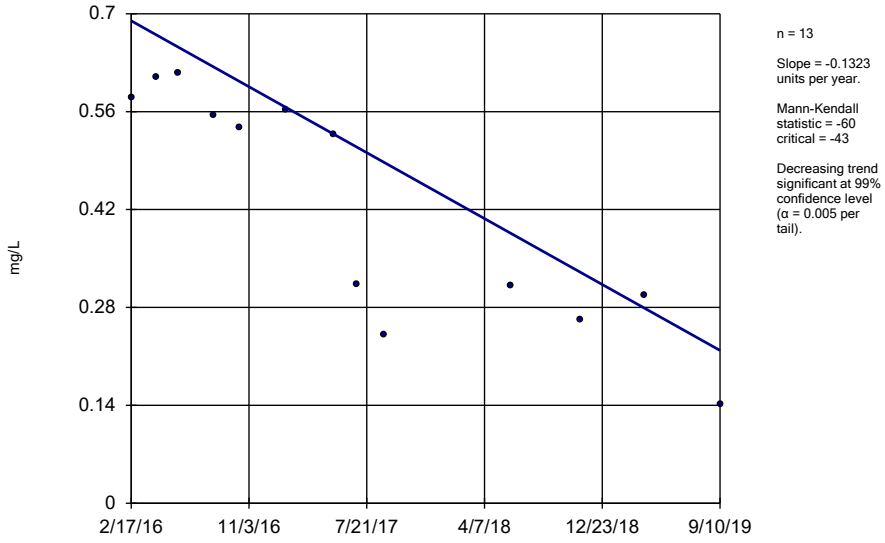
Mann-Kendall statistic = -14
critical = -43

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-11



n = 13

Slope = -0.1323 units per year.

Mann-Kendall statistic = -60 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

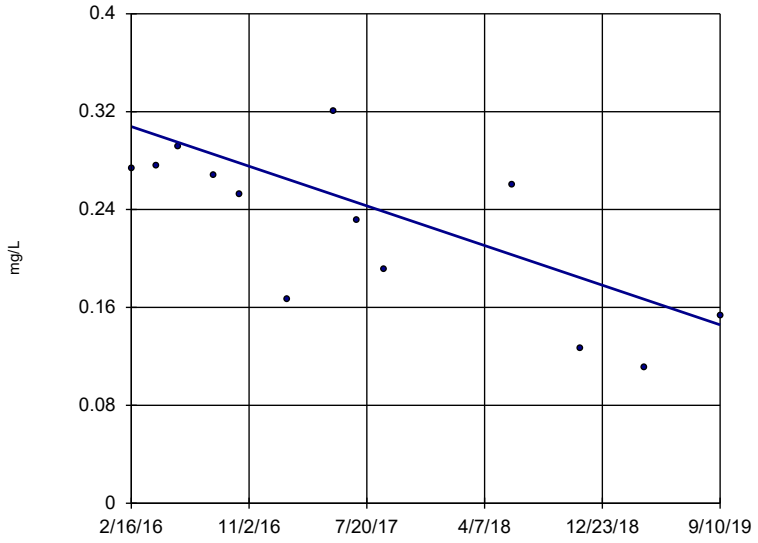
Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 13

Slope = -0.04543 units per year.

Mann-Kendall statistic = -44 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

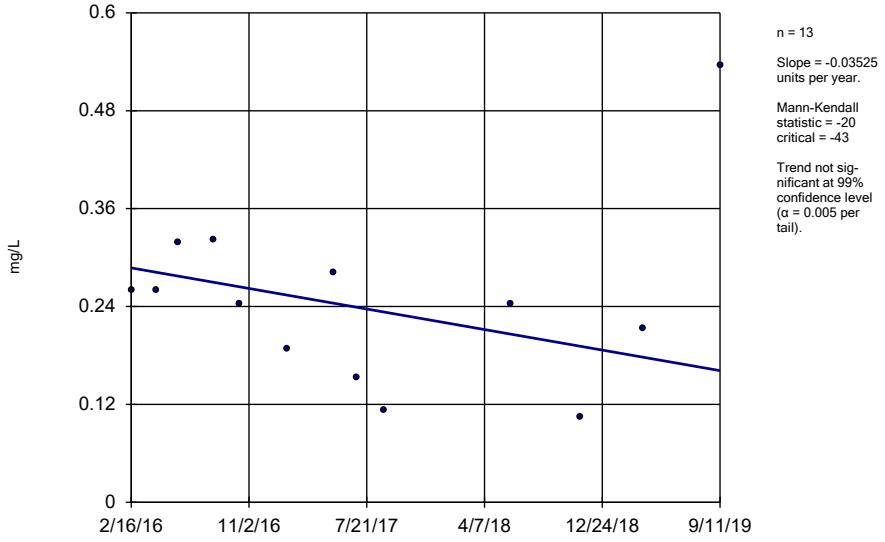
Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 13

Slope = -0.03525 units per year.

Mann-Kendall statistic = -20 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

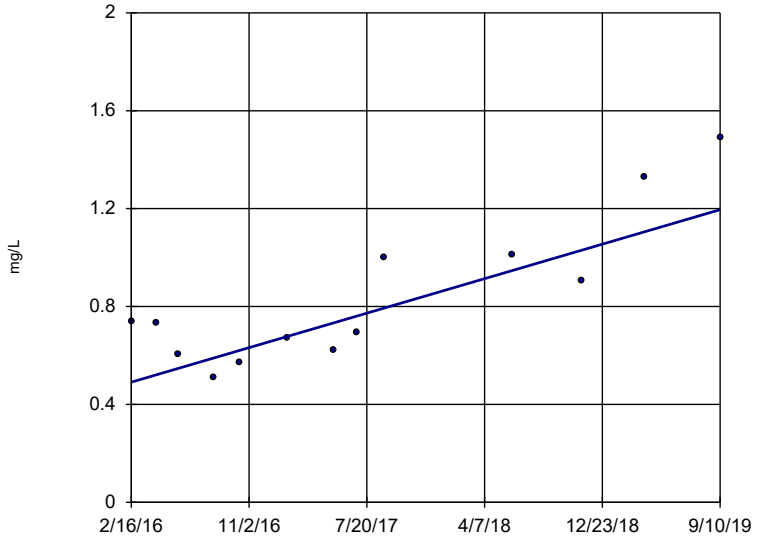
Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 13

Slope = 0.1976 units per year.

Mann-Kendall statistic = 42 critical = 43

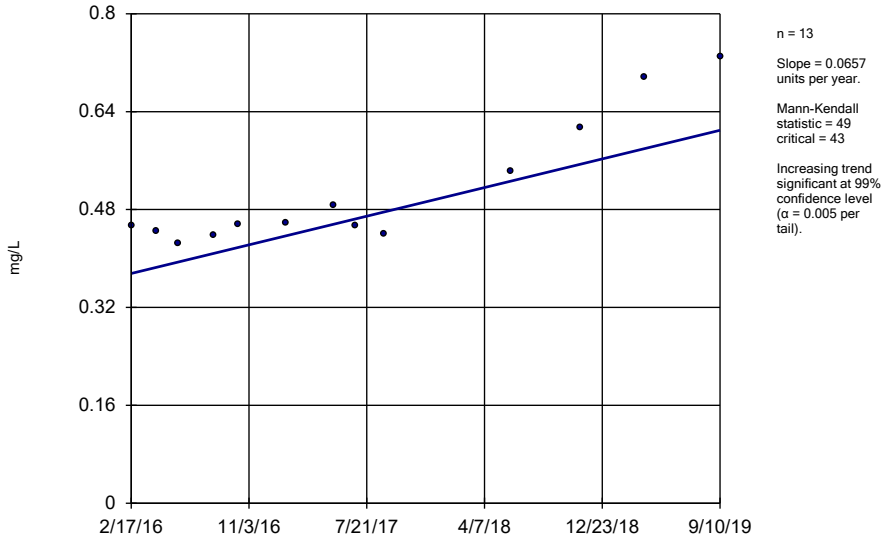
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15



n = 13

Slope = 0.0657 units per year.

Mann-Kendall statistic = 49
critical = 43

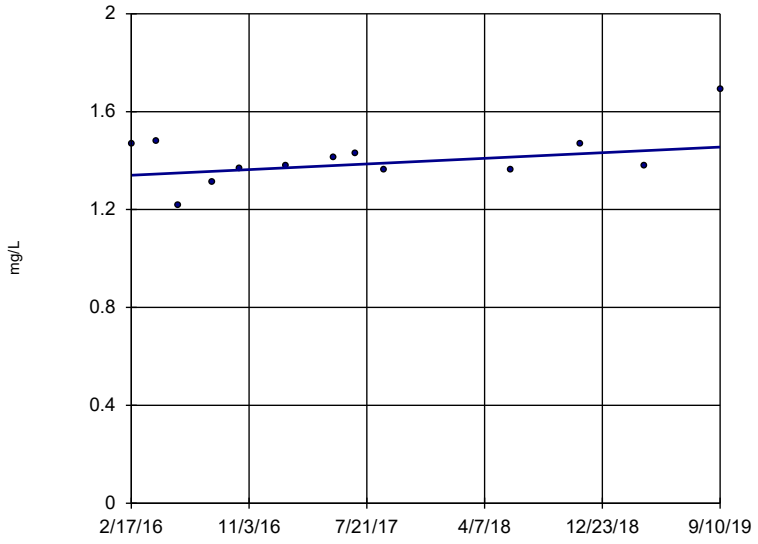
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 13

Slope = 0.03224 units per year.

Mann-Kendall statistic = 15
critical = 43

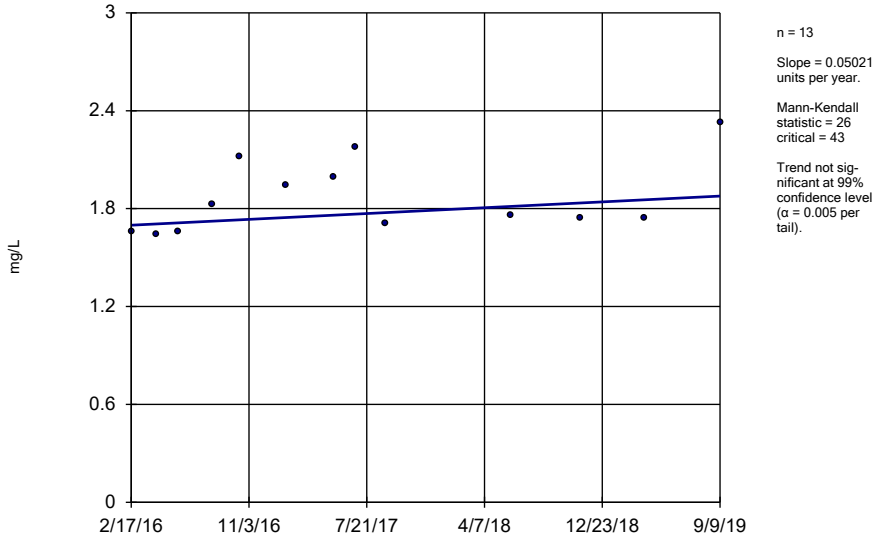
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 13

Slope = 0.05021 units per year.

Mann-Kendall statistic = 26
critical = 43

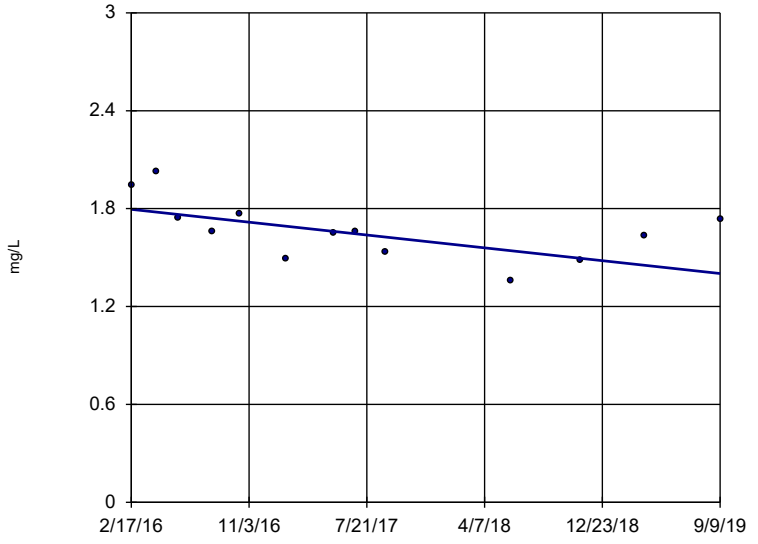
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 13

Slope = -0.1104 units per year.

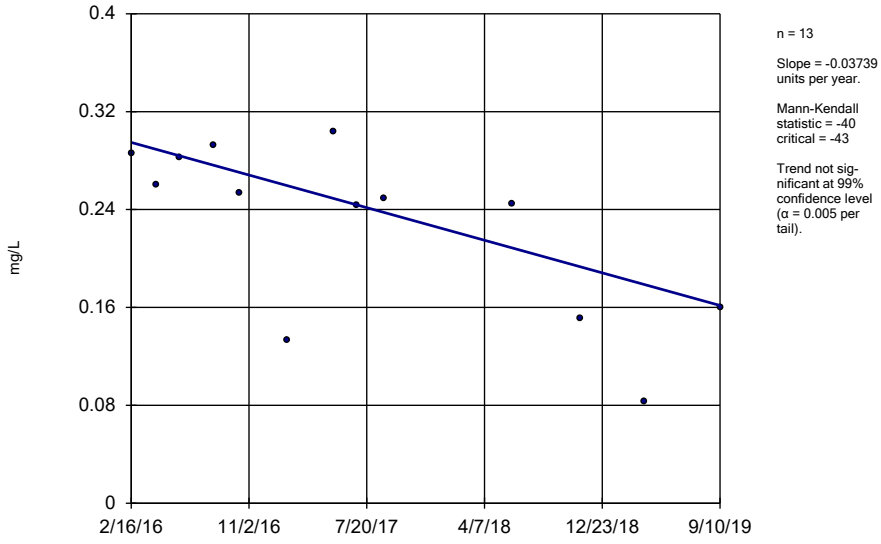
Mann-Kendall statistic = -37
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-21



n = 13

Slope = -0.03739 units per year.

Mann-Kendall statistic = -40 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

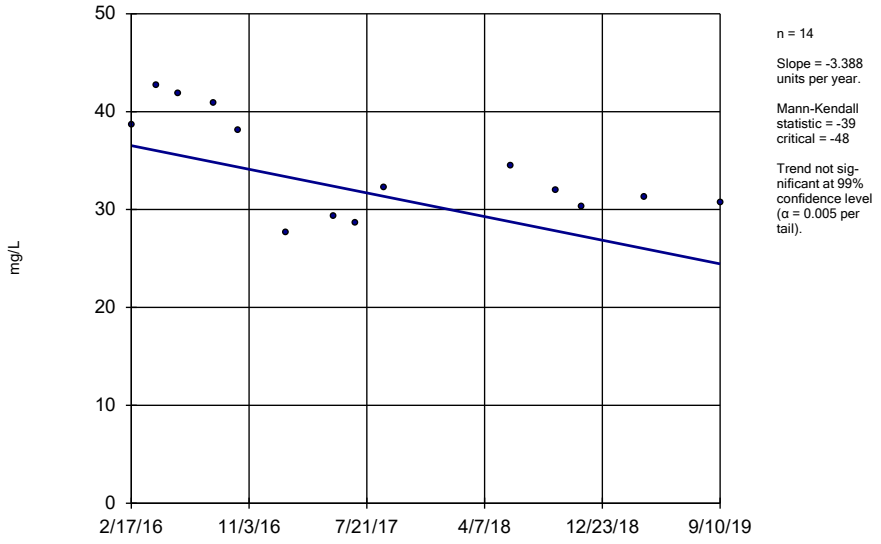
Constituent: Boron Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = -3.388 units per year.

Mann-Kendall statistic = -39 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

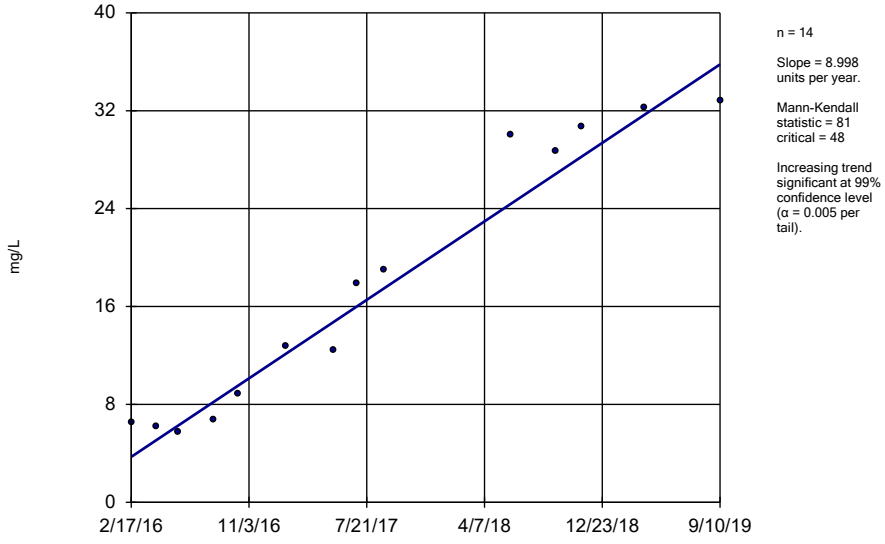
Constituent: Calcium Analysis Run 1/21/2020 1:33 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 8.998 units per year.

Mann-Kendall statistic = 81 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

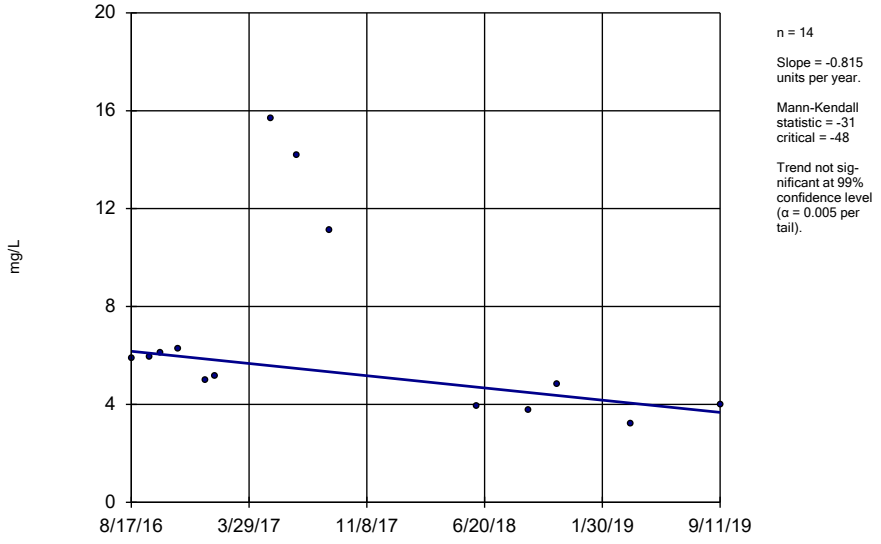
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 14

Slope = -0.815 units per year.

Mann-Kendall statistic = -31 critical = -48

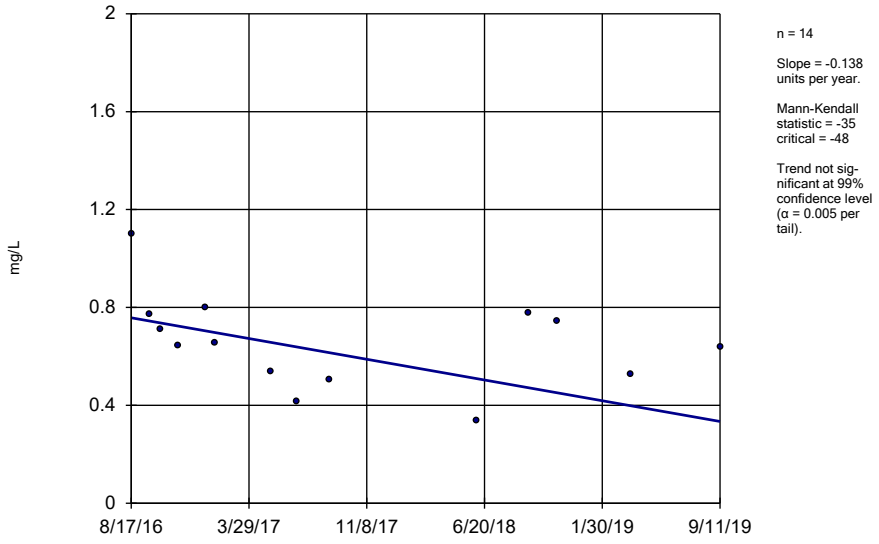
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = -0.138 units per year.

Mann-Kendall statistic = -35 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

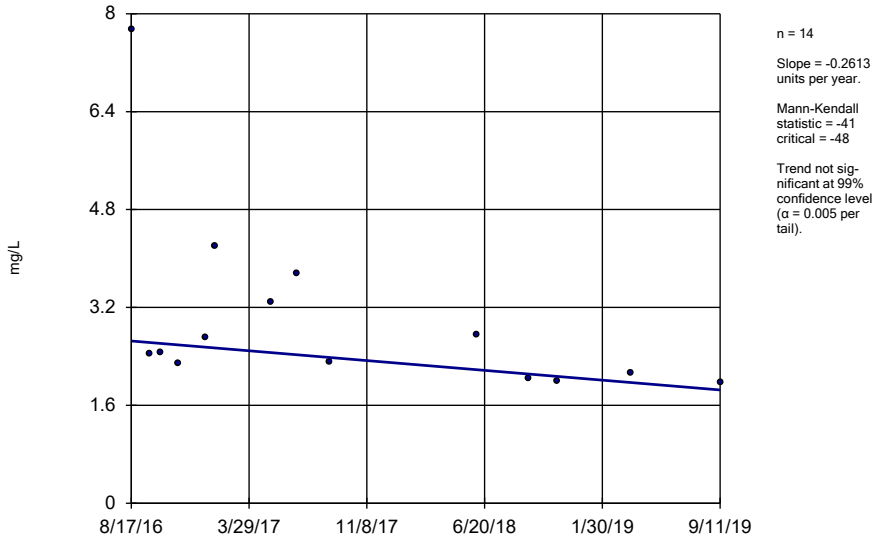
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = -0.2613 units per year.

Mann-Kendall statistic = -41 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

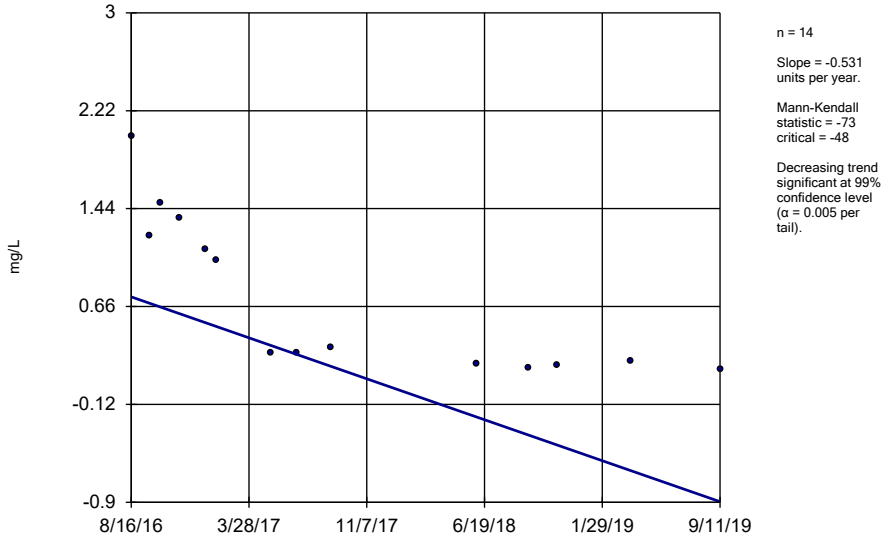
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = -0.531 units per year.

Mann-Kendall statistic = -73 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

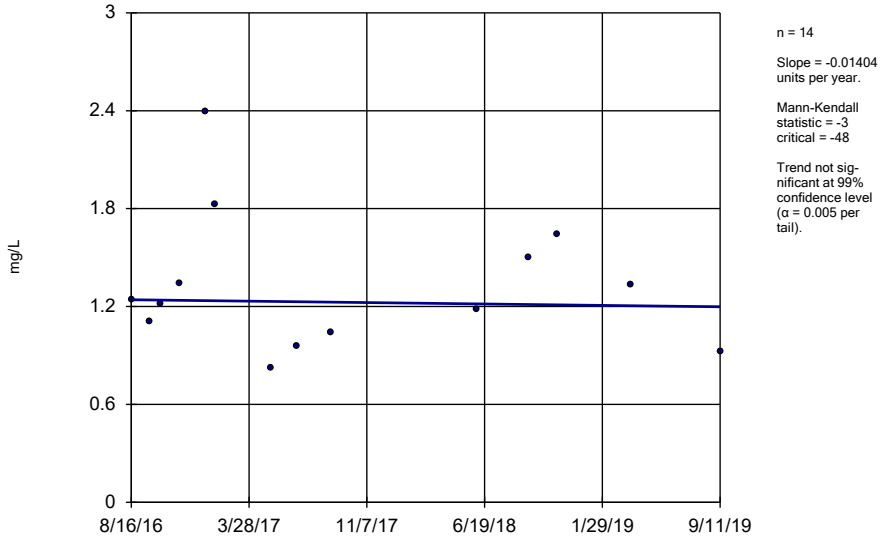
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = -0.01404 units per year.

Mann-Kendall statistic = -3 critical = -48

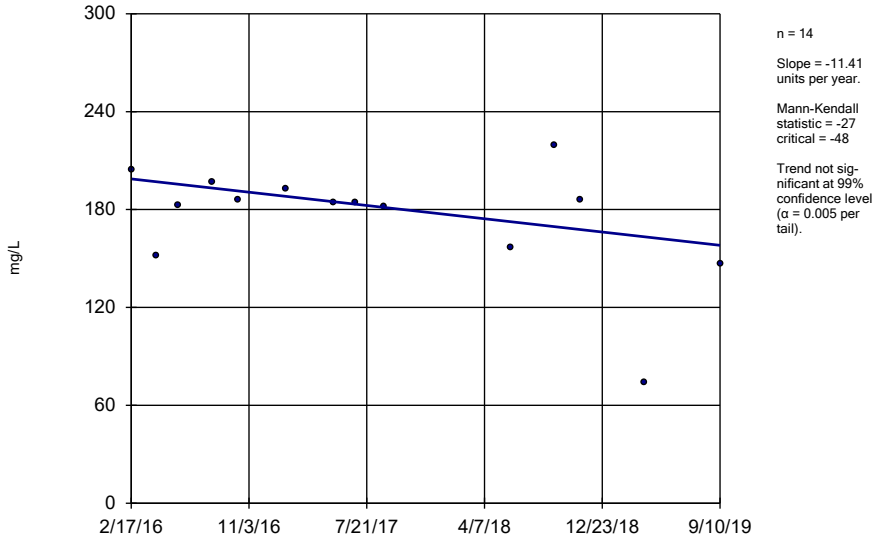
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = -11.41 units per year.

Mann-Kendall statistic = -27 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

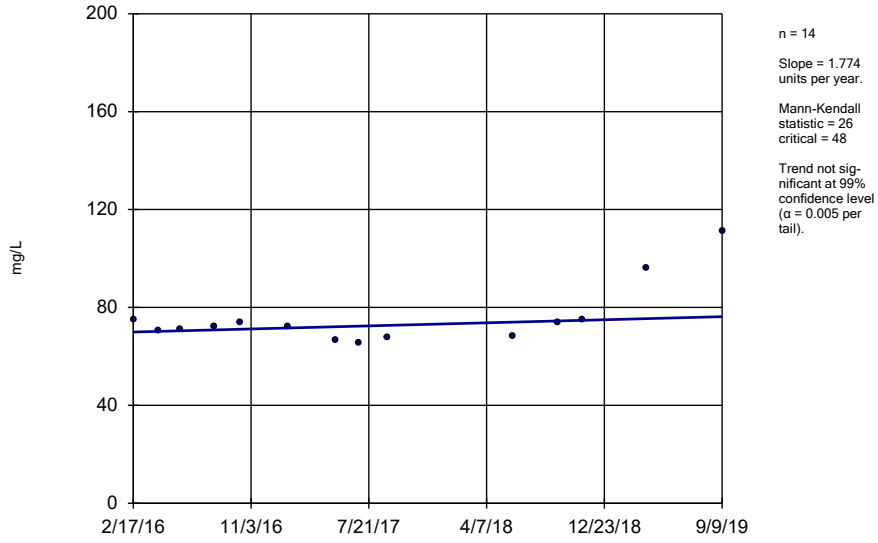
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = 1.774 units per year.

Mann-Kendall statistic = 26 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

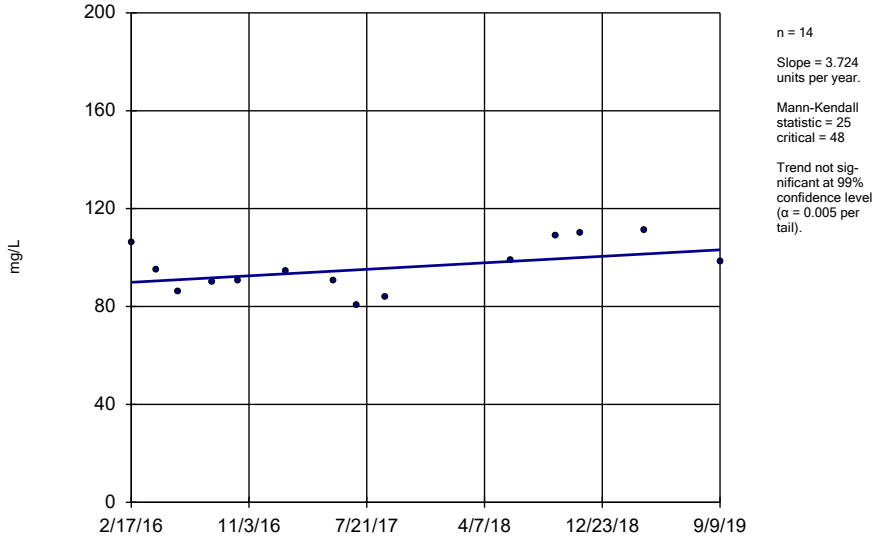
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 14

Slope = 3.724 units per year.

Mann-Kendall statistic = 25 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

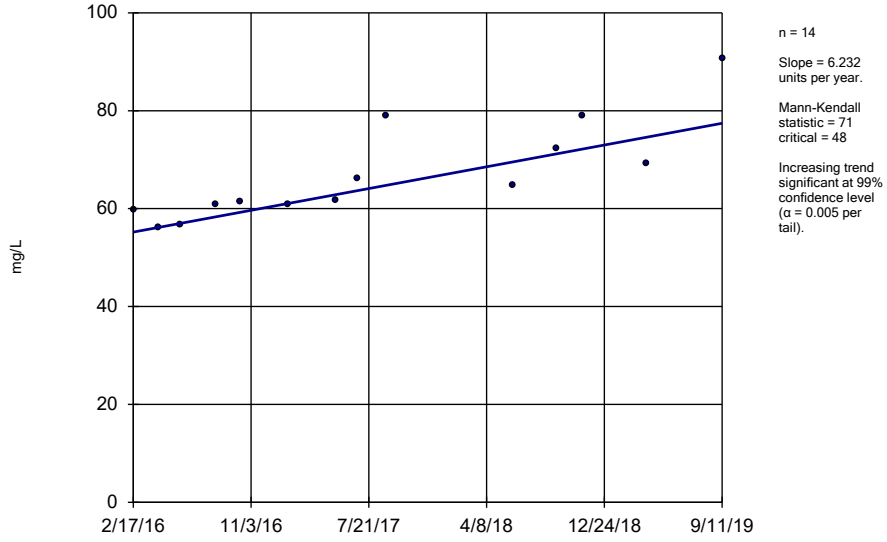
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = 6.232 units per year.

Mann-Kendall statistic = 71 critical = 48

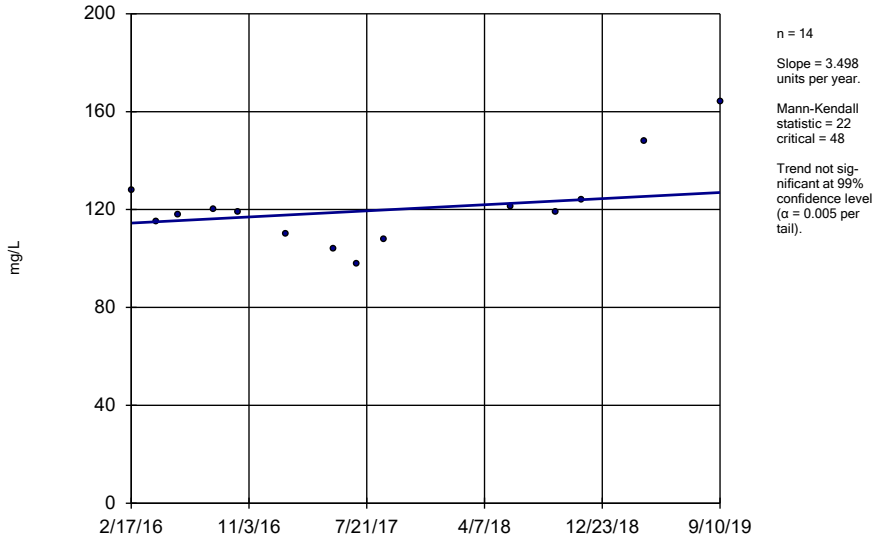
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = 3.498 units per year.

Mann-Kendall statistic = 22
critical = 48

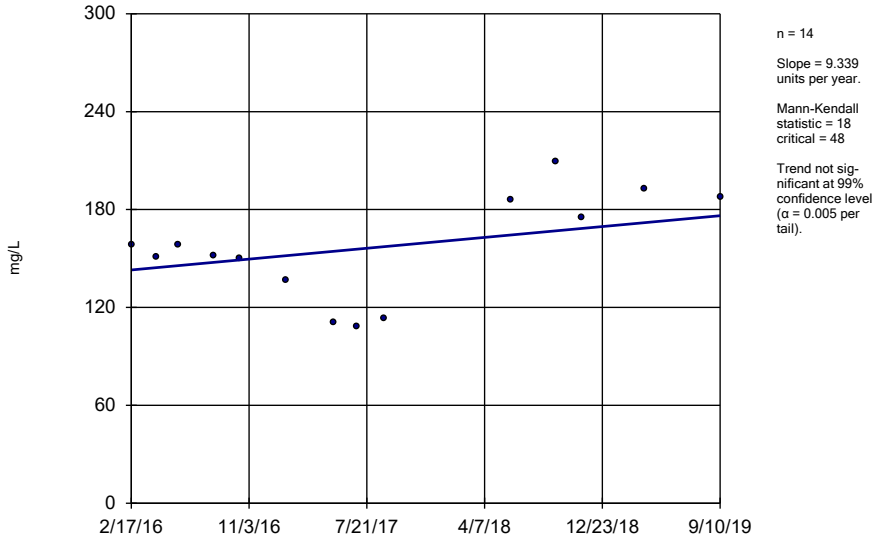
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 14

Slope = 9.339 units per year.

Mann-Kendall statistic = 18
critical = 48

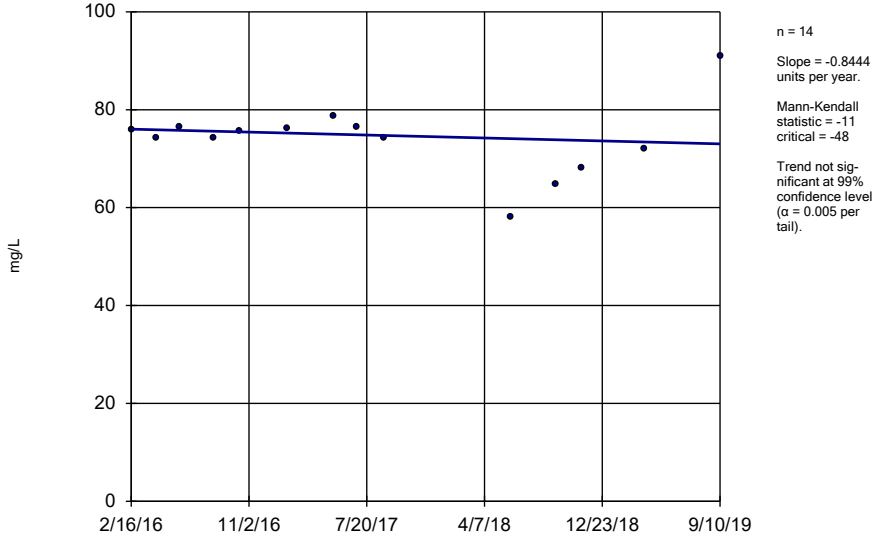
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 14

Slope = -0.8444 units per year.

Mann-Kendall statistic = -11
critical = -48

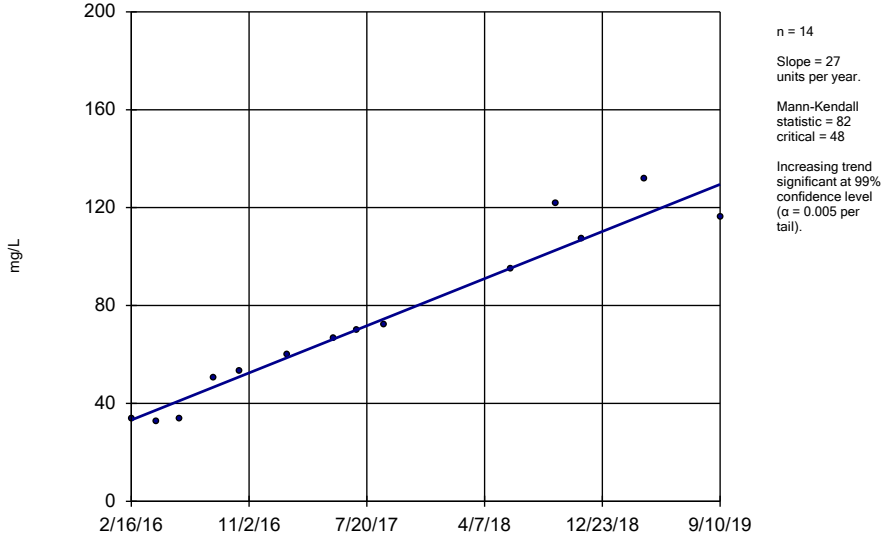
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 27 units per year.

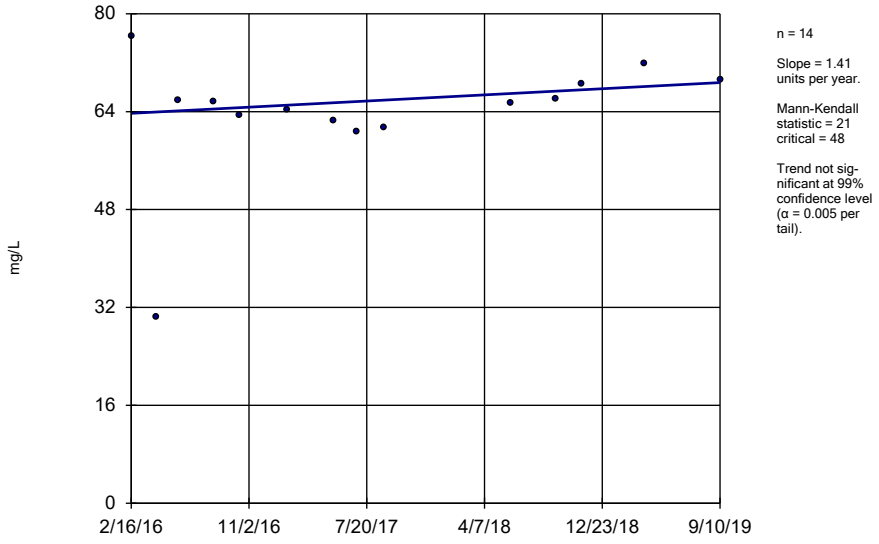
Mann-Kendall statistic = 82
critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-10



n = 14

Slope = 1.41 units per year.

Mann-Kendall statistic = 21 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

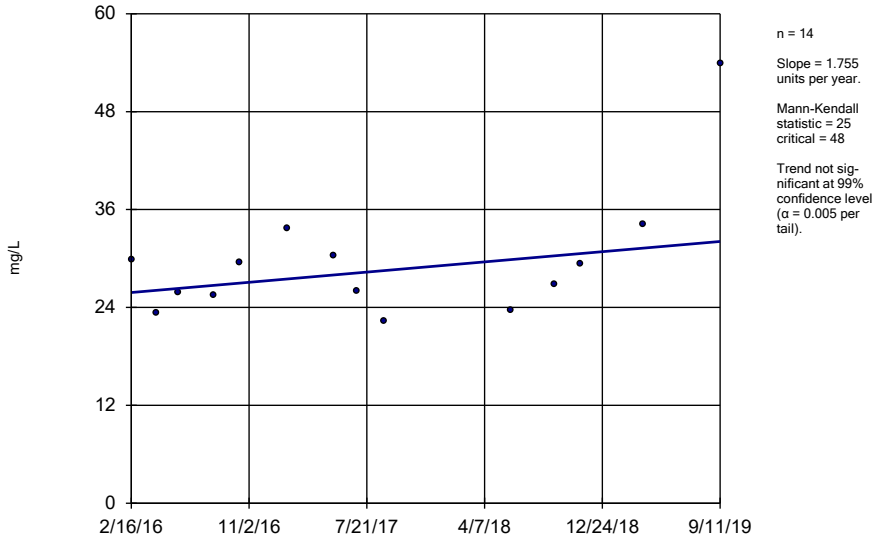
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 14

Slope = 1.755 units per year.

Mann-Kendall statistic = 25 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

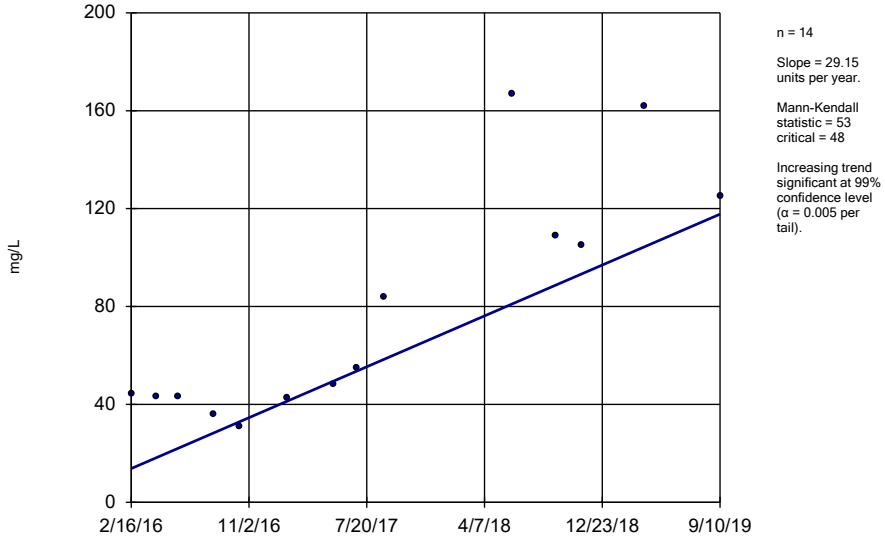
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = 29.15 units per year.

Mann-Kendall statistic = 53 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

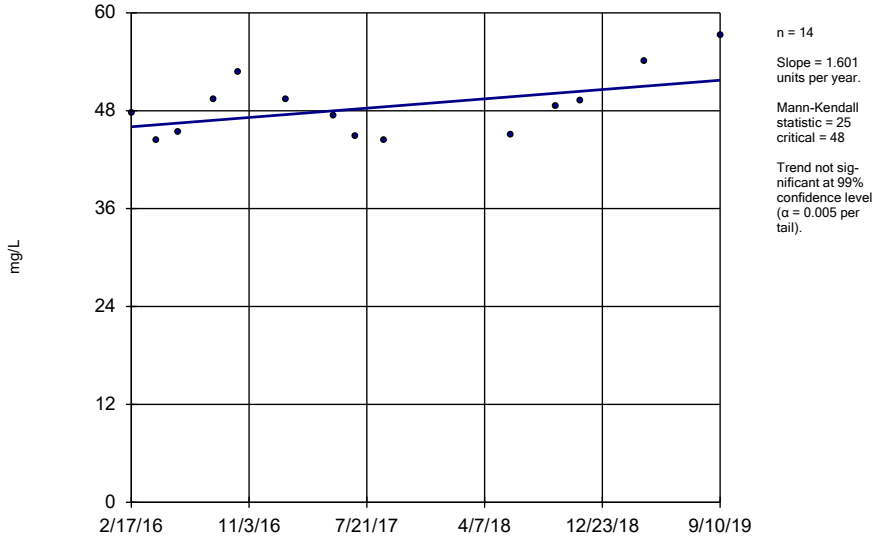
Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 14

Slope = 1.601 units per year.

Mann-Kendall statistic = 25 critical = 48

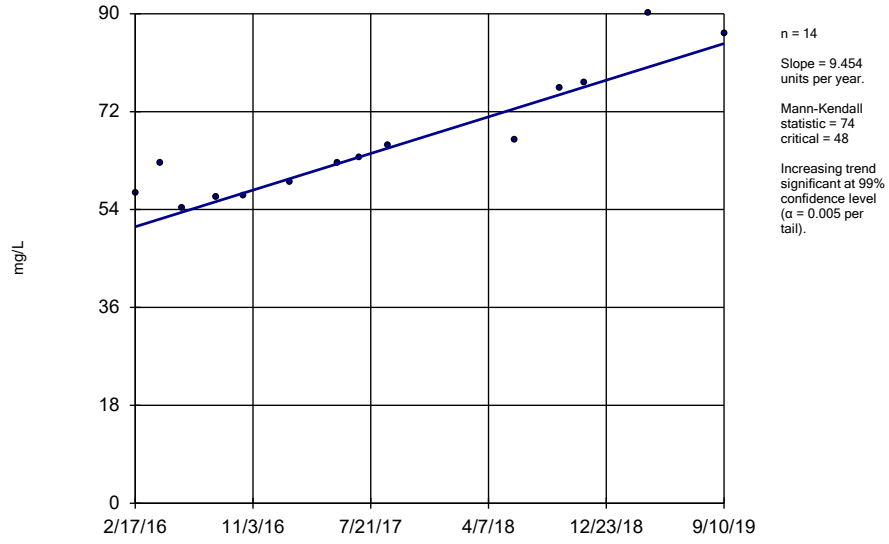
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16



n = 14

Slope = 9.454 units per year.

Mann-Kendall statistic = 74
critical = 48

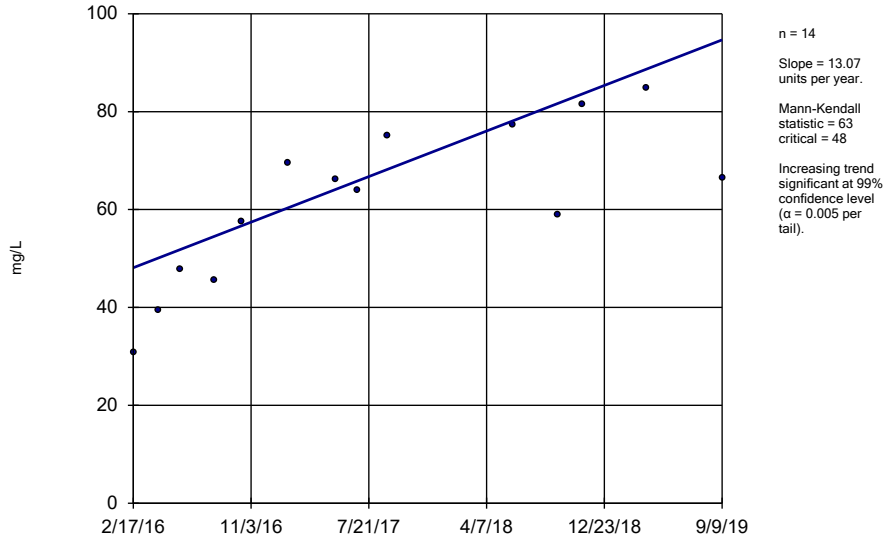
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 14

Slope = 13.07 units per year.

Mann-Kendall statistic = 63
critical = 48

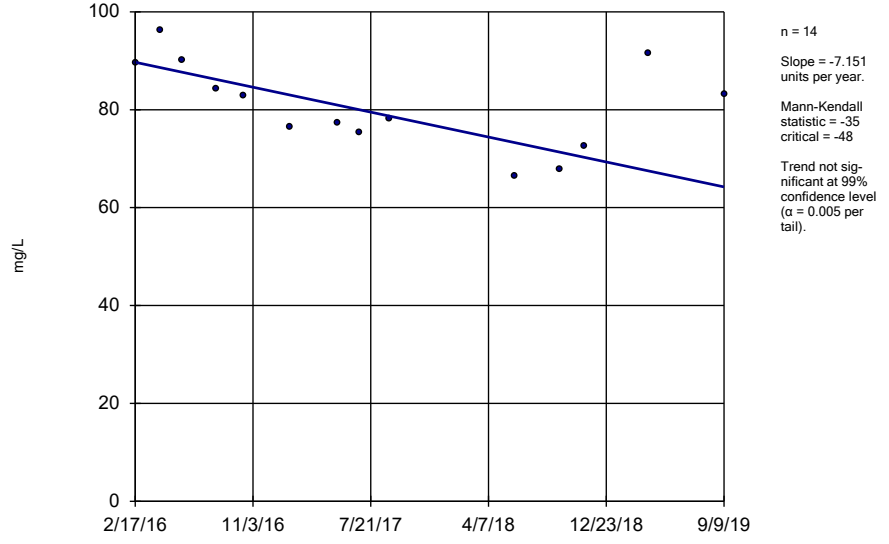
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 14

Slope = -7.151 units per year.

Mann-Kendall statistic = -35
critical = -48

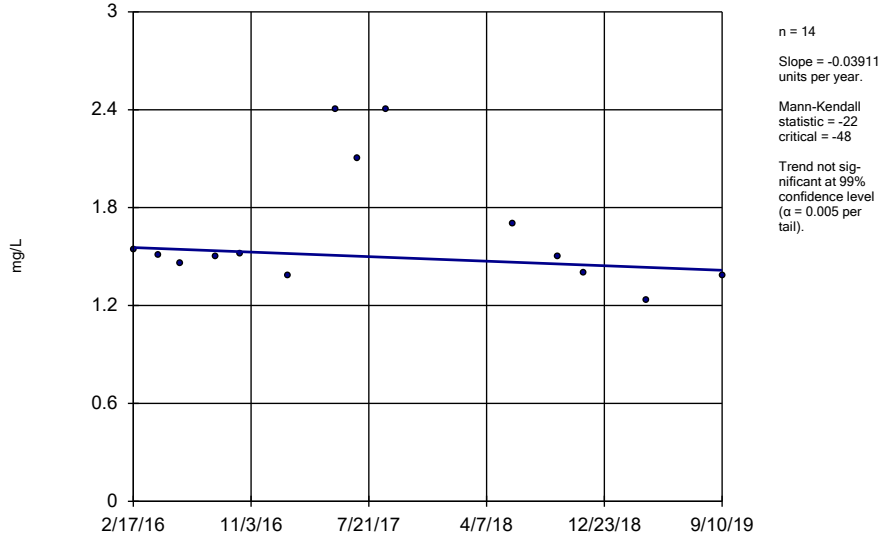
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = -0.03911 units per year.

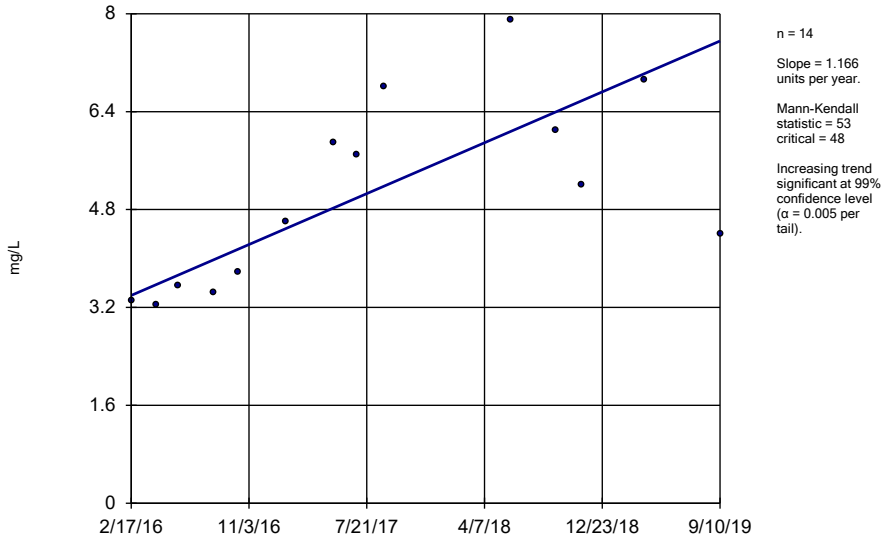
Mann-Kendall statistic = -22
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:34 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 1.166 units per year.

Mann-Kendall statistic = 53
critical = 48

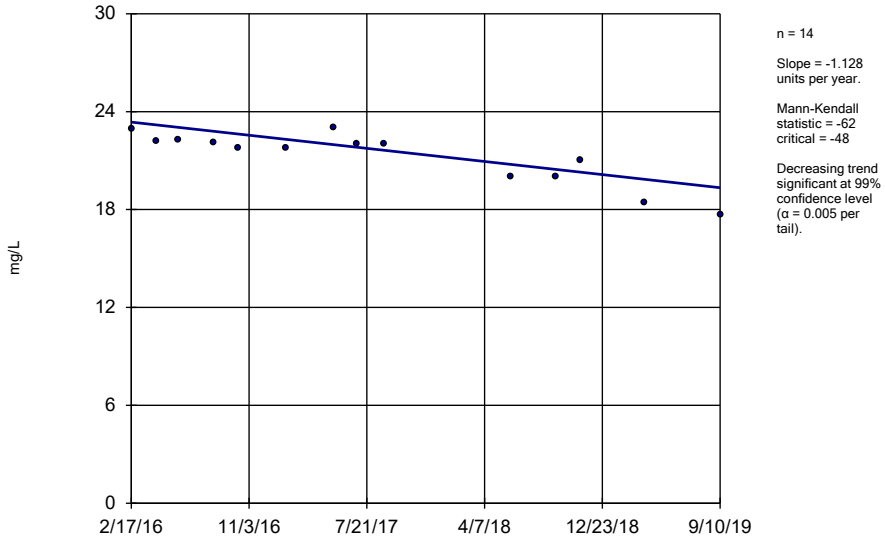
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 14

Slope = -1.128 units per year.

Mann-Kendall statistic = -62
critical = -48

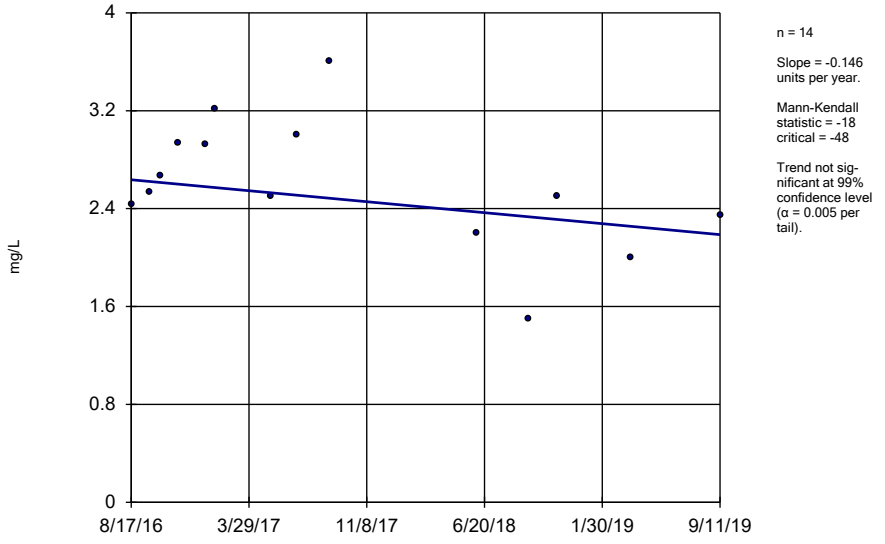
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 14

Slope = -0.146 units per year.

Mann-Kendall statistic = -18
critical = -48

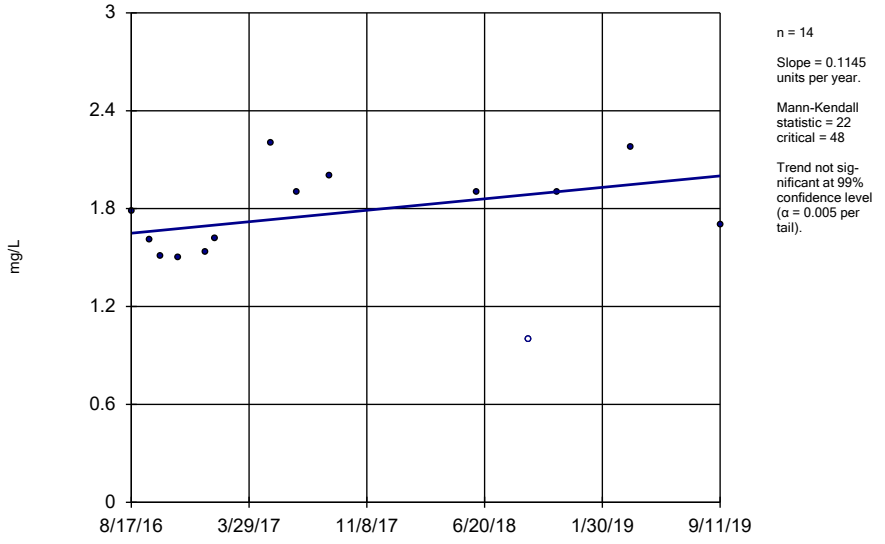
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = 0.1145 units per year.

Mann-Kendall statistic = 22
critical = 48

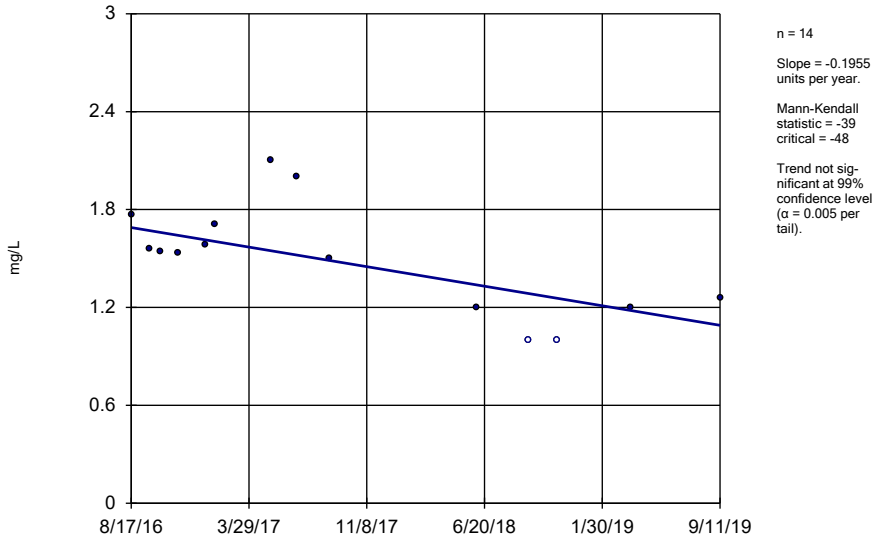
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = -0.1955 units per year.

Mann-Kendall statistic = -39 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

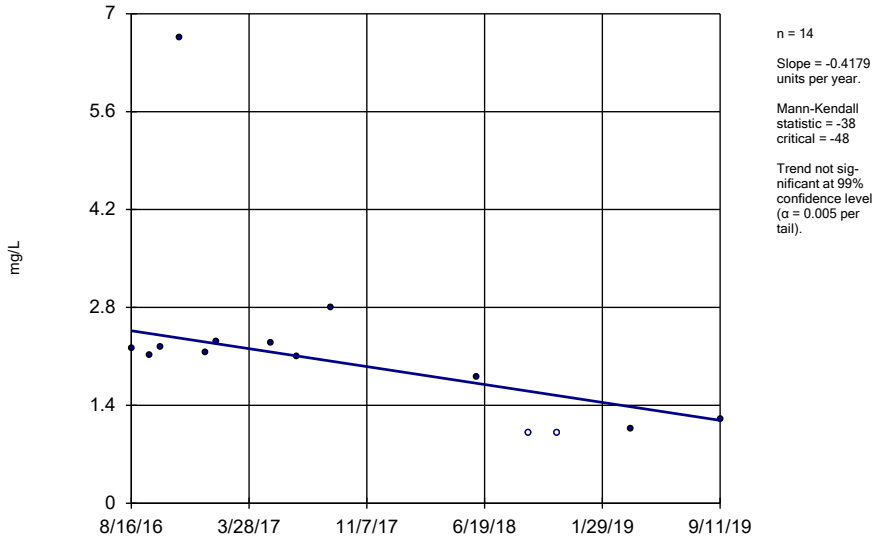
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = -0.4179 units per year.

Mann-Kendall statistic = -38 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

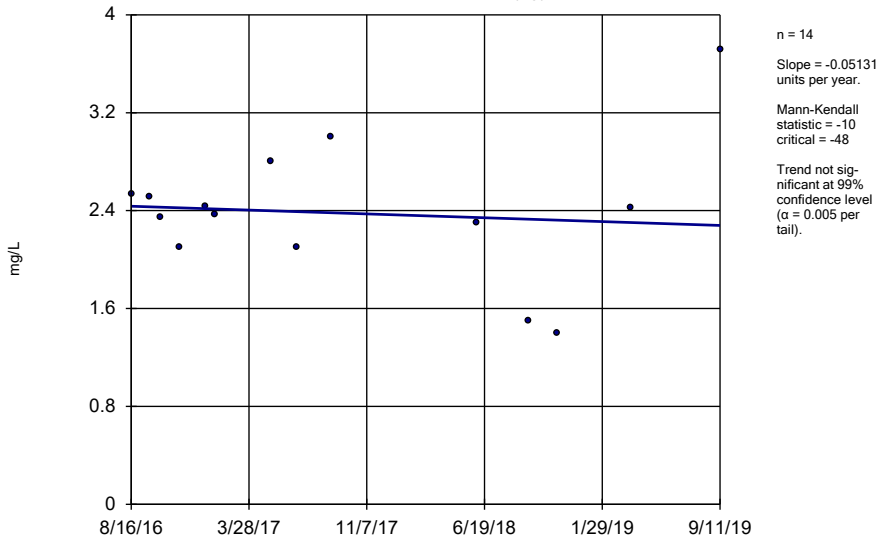
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = -0.05131 units per year.

Mann-Kendall statistic = -10 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

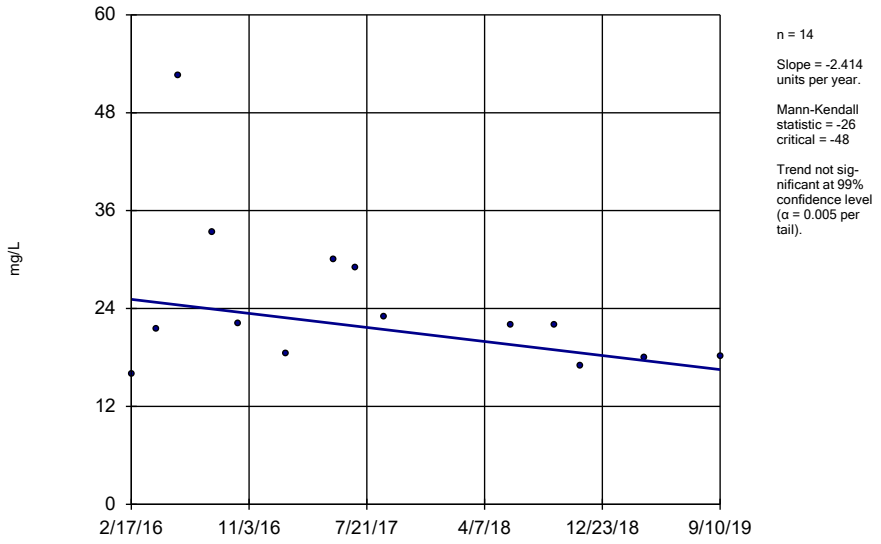
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = -2.414 units per year.

Mann-Kendall statistic = -26 critical = -48

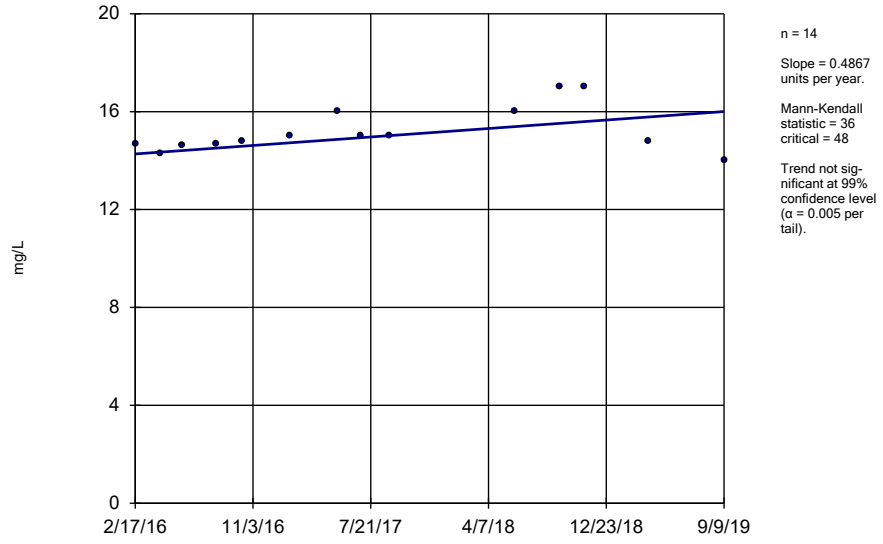
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = 0.4867 units per year.

Mann-Kendall statistic = 36 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

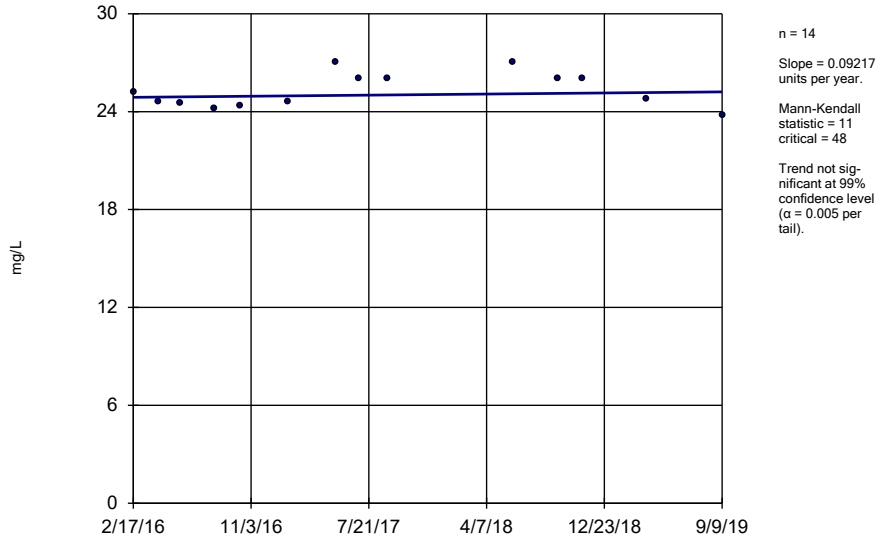
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 14

Slope = 0.09217 units per year.

Mann-Kendall statistic = 11 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

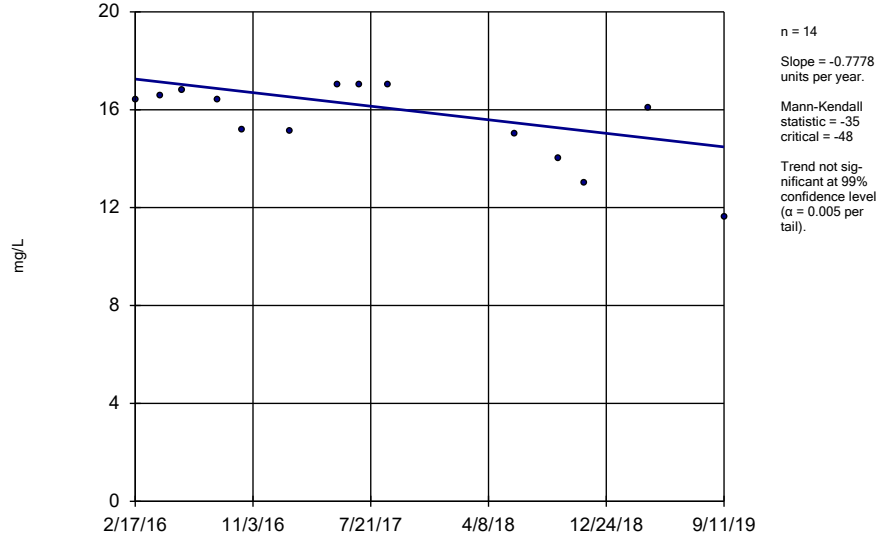
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = -0.7778 units per year.

Mann-Kendall statistic = -35 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

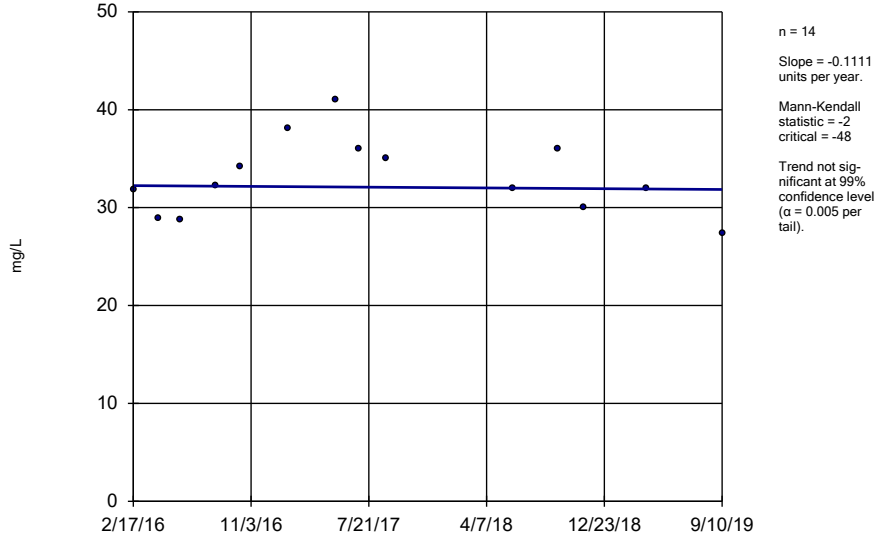
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = -0.1111 units per year.

Mann-Kendall statistic = -2 critical = -48

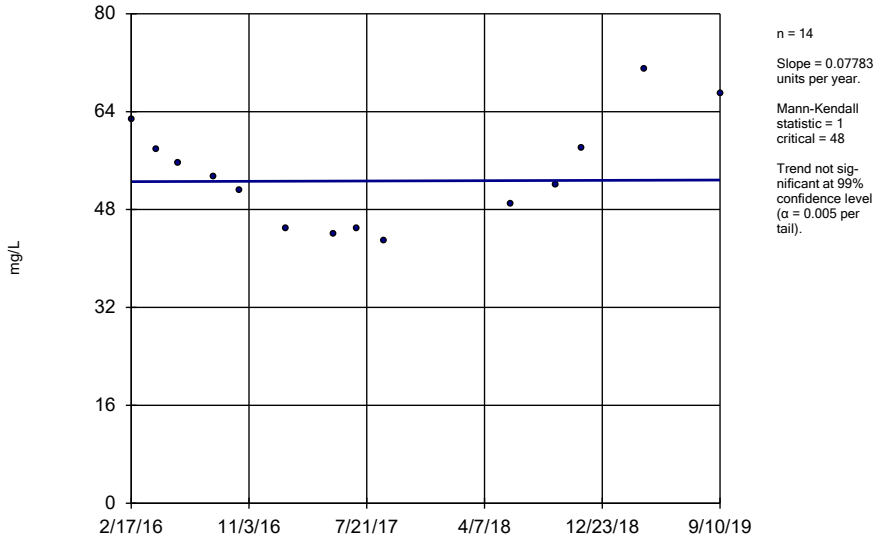
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7



n = 14

Slope = 0.07783 units per year.

Mann-Kendall statistic = 1 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

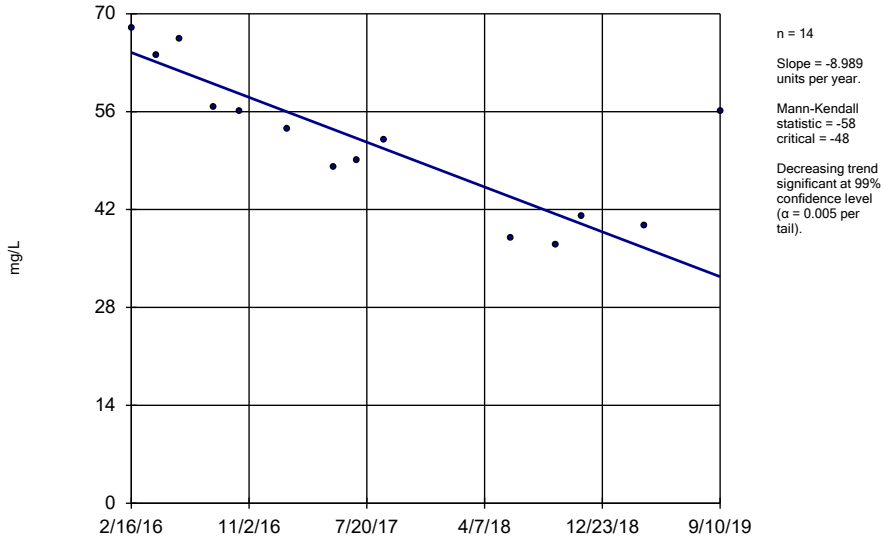
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 14

Slope = -8.989 units per year.

Mann-Kendall statistic = -58 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

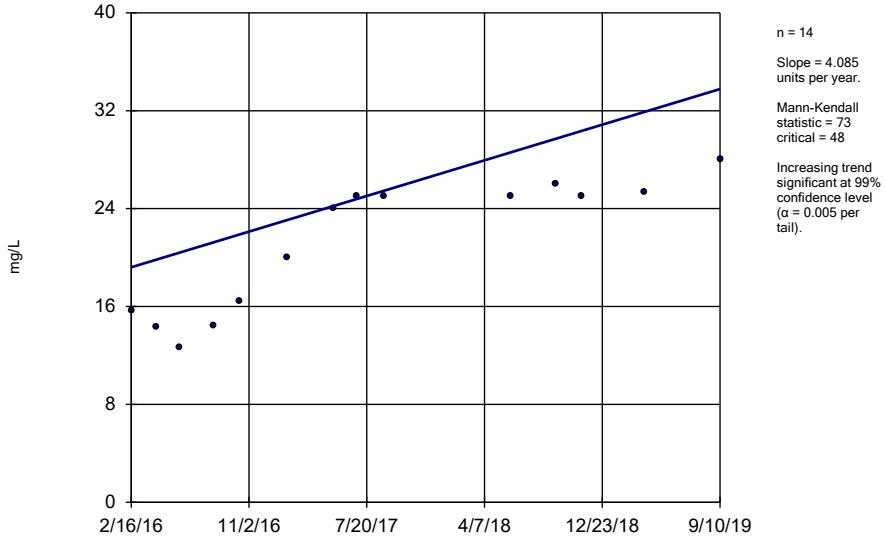
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 4.085 units per year.

Mann-Kendall statistic = 73 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

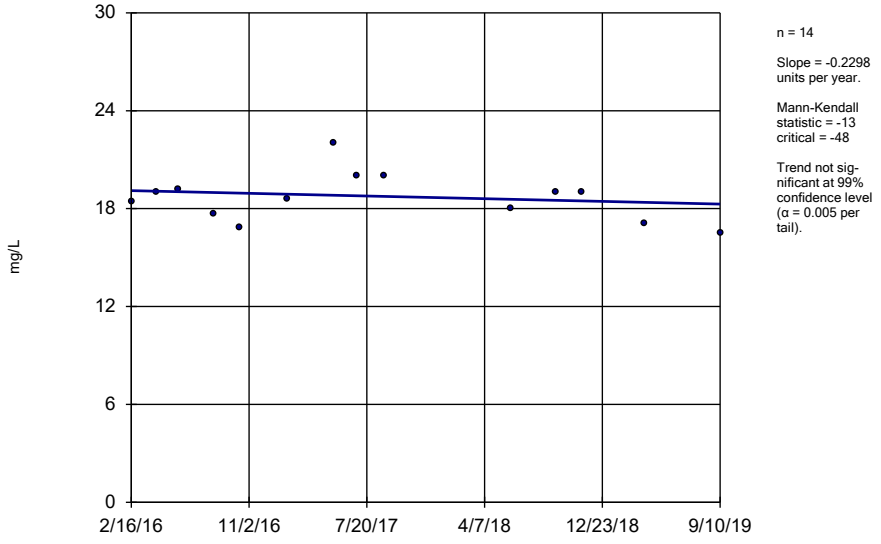
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 14

Slope = -0.2298 units per year.

Mann-Kendall statistic = -13 critical = -48

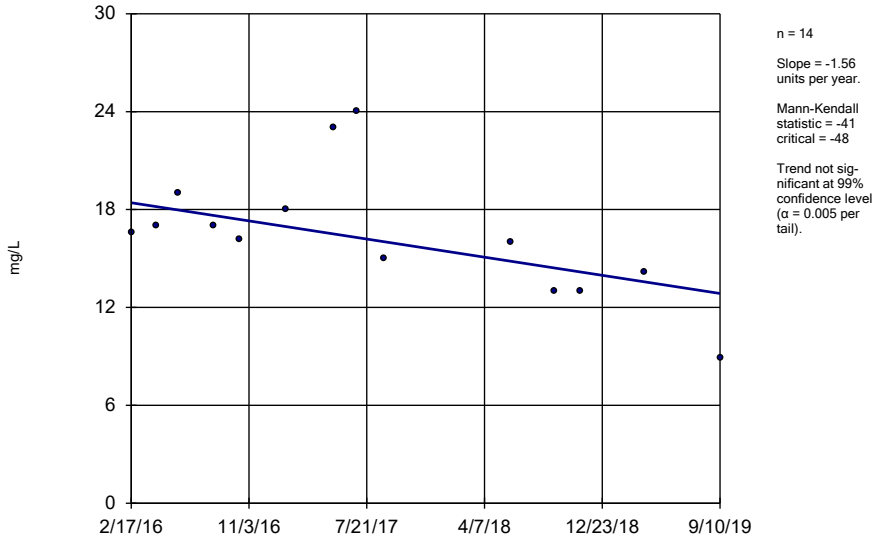
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-11



n = 14

Slope = -1.56 units per year.

Mann-Kendall statistic = -41 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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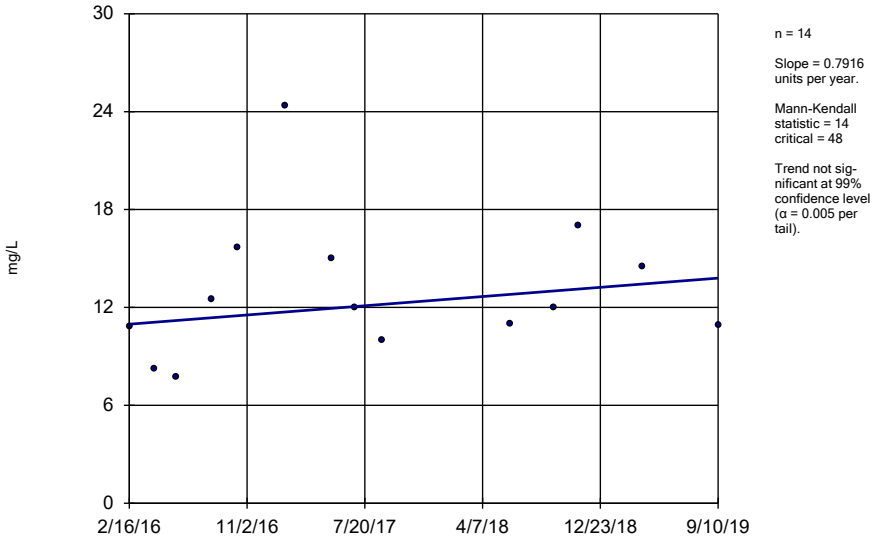
Sen's Slope Estimator

GC-AP-MW-12



n = 14

Slope = 0.7916 units per year.

Mann-Kendall statistic = 14 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

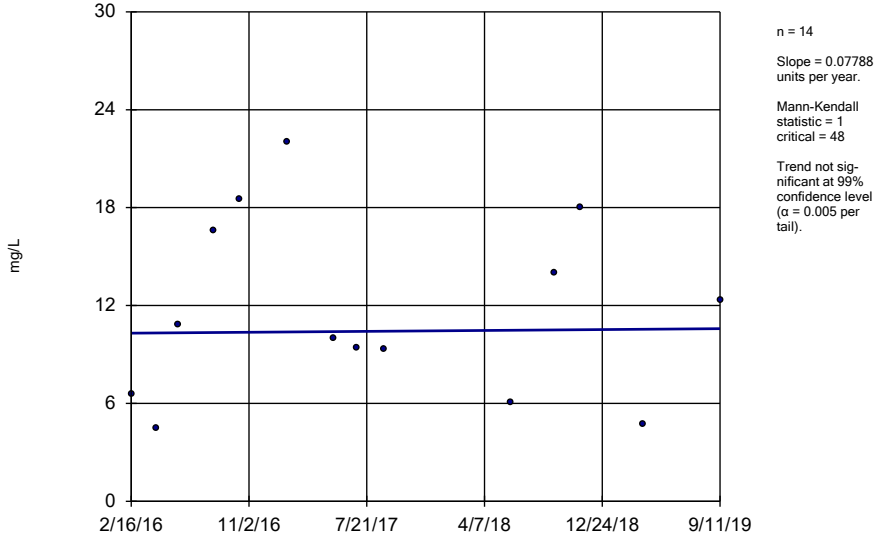
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 14

Slope = 0.07788 units per year.

Mann-Kendall statistic = 1 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

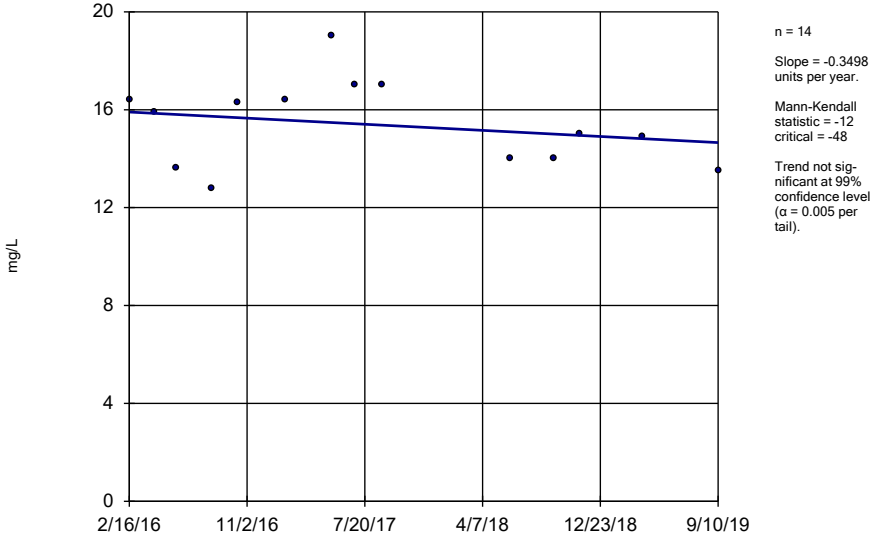
Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = -0.3498 units per year.

Mann-Kendall statistic = -12 critical = -48

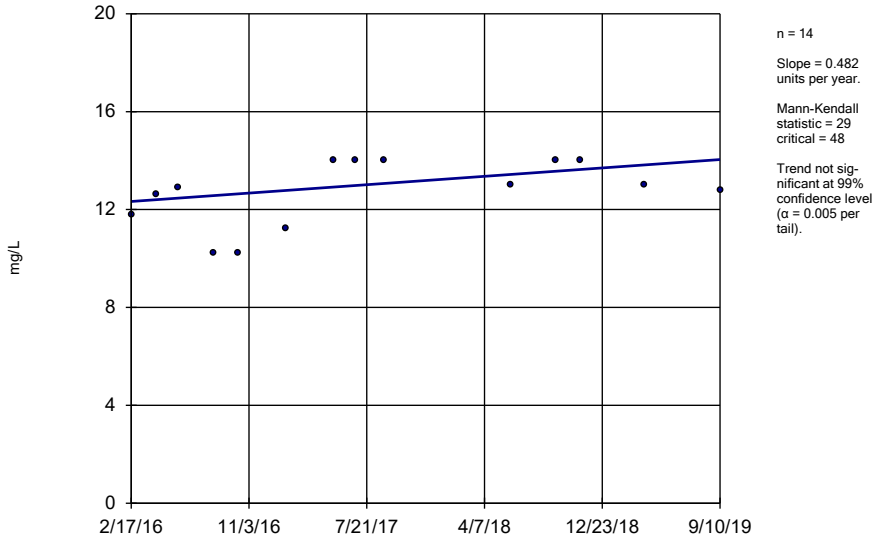
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:35 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15



n = 14

Slope = 0.482 units per year.

Mann-Kendall statistic = 29
critical = 48

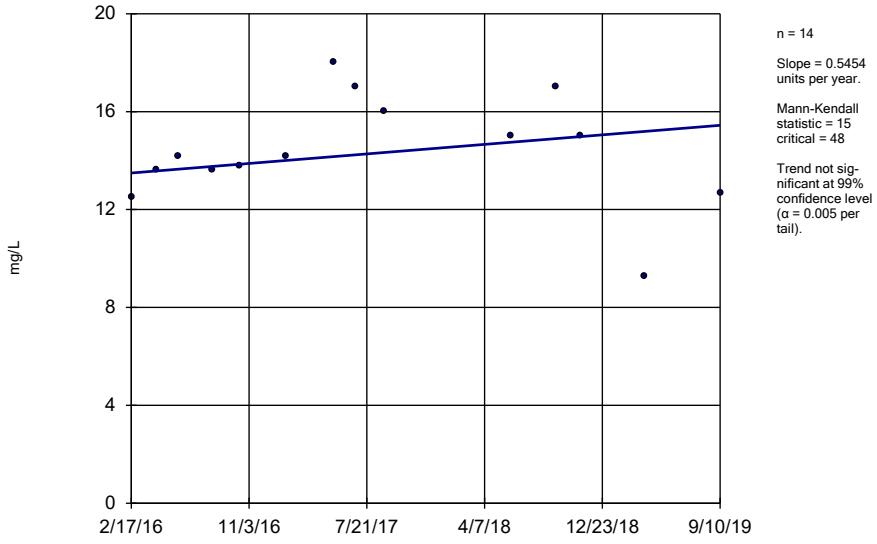
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 14

Slope = 0.5454 units per year.

Mann-Kendall statistic = 15
critical = 48

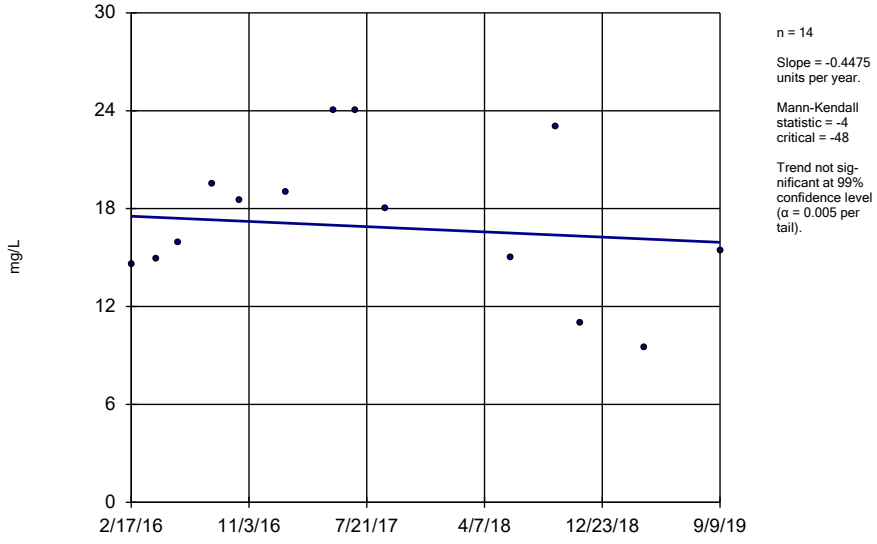
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 14

Slope = -0.4475 units per year.

Mann-Kendall statistic = -4
critical = -48

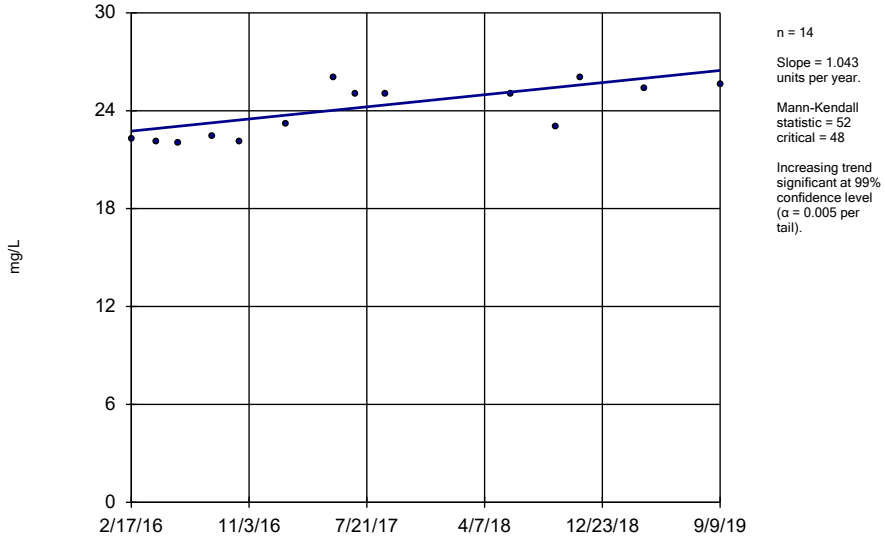
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 14

Slope = 1.043 units per year.

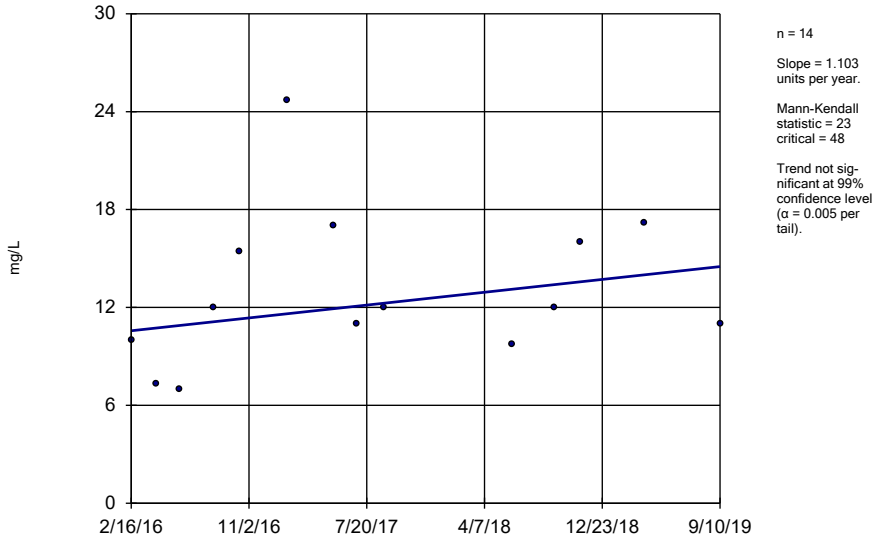
Mann-Kendall statistic = 52
critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-21



n = 14

Slope = 1.103 units per year.

Mann-Kendall statistic = 23 critical = 48

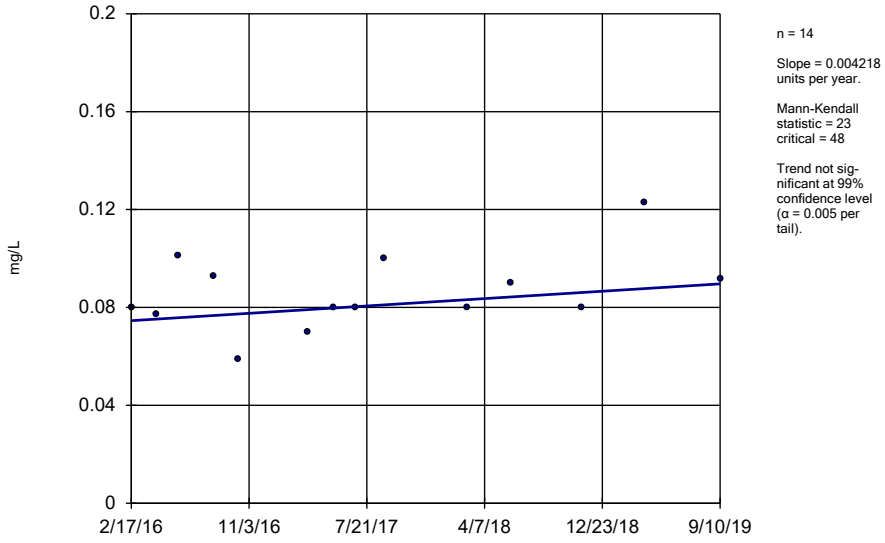
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = 0.004218 units per year.

Mann-Kendall statistic = 23 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

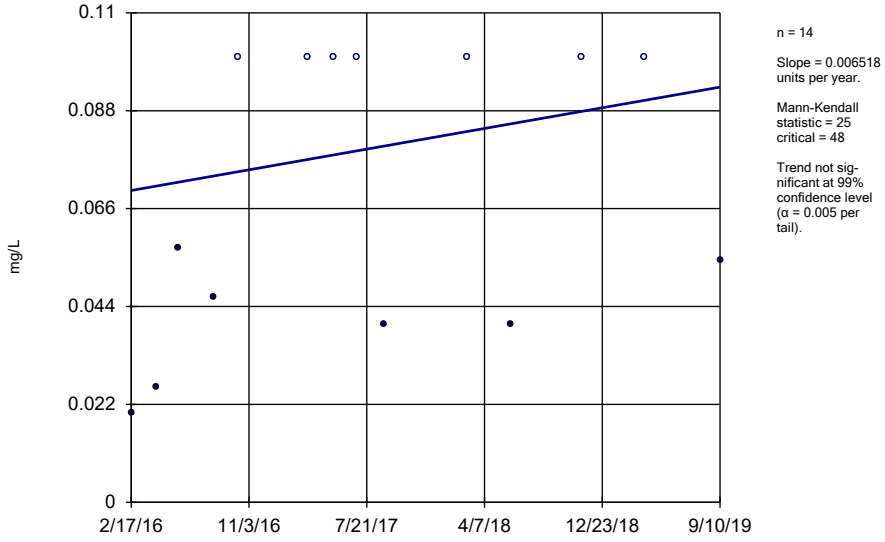
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 0.006518 units per year.

Mann-Kendall statistic = 25 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

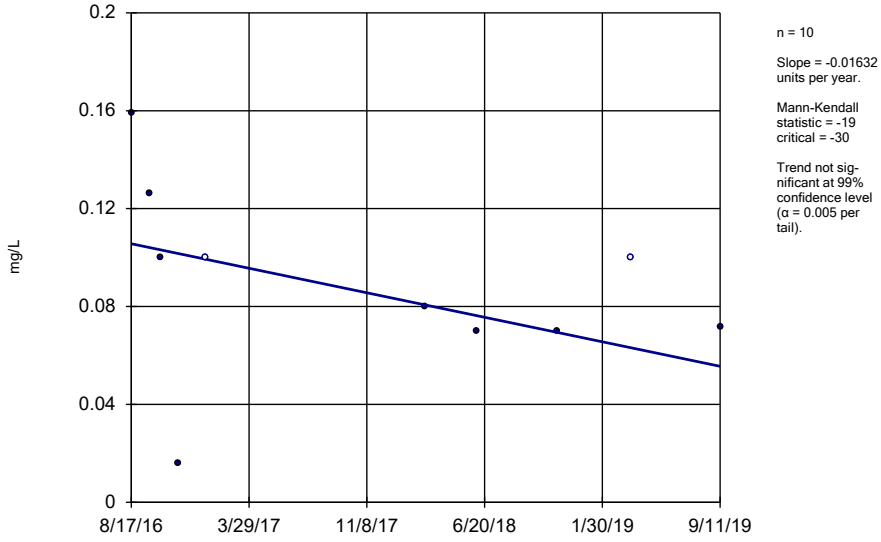
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 10

Slope = -0.01632 units per year.

Mann-Kendall statistic = -19 critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

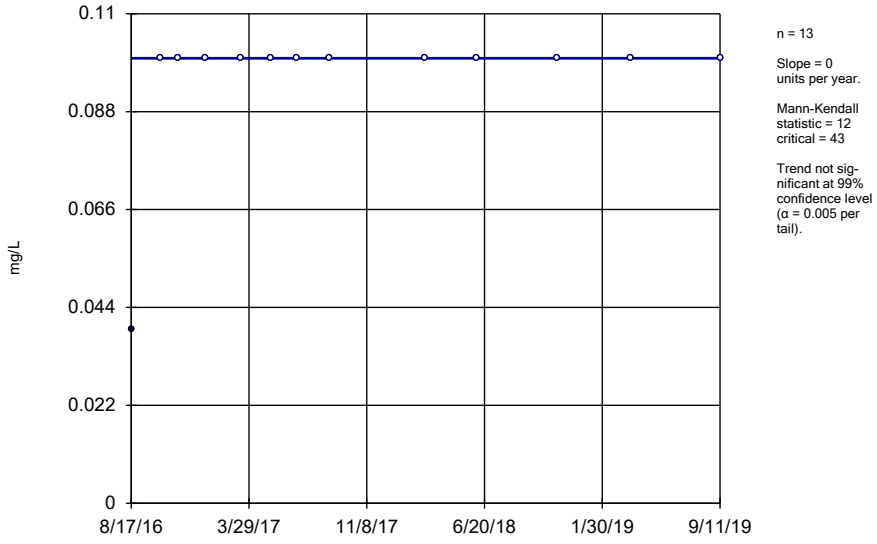
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 12
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

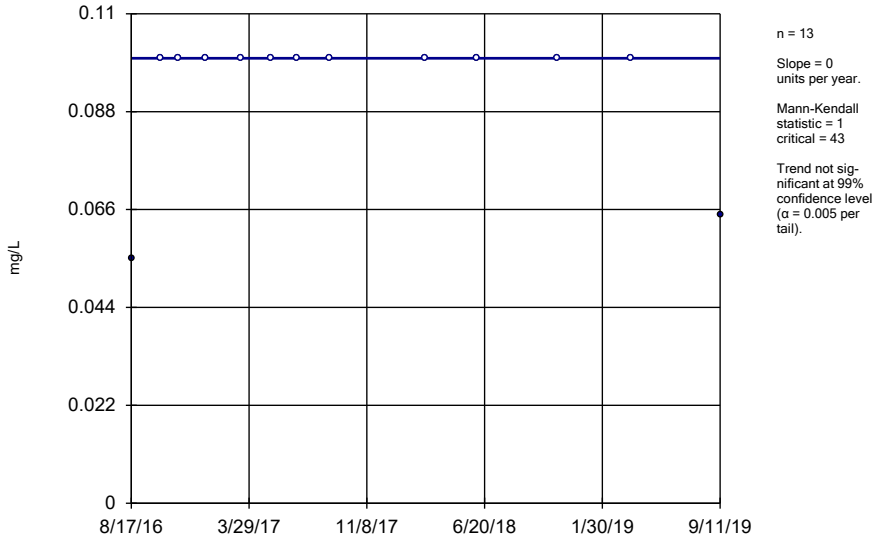
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

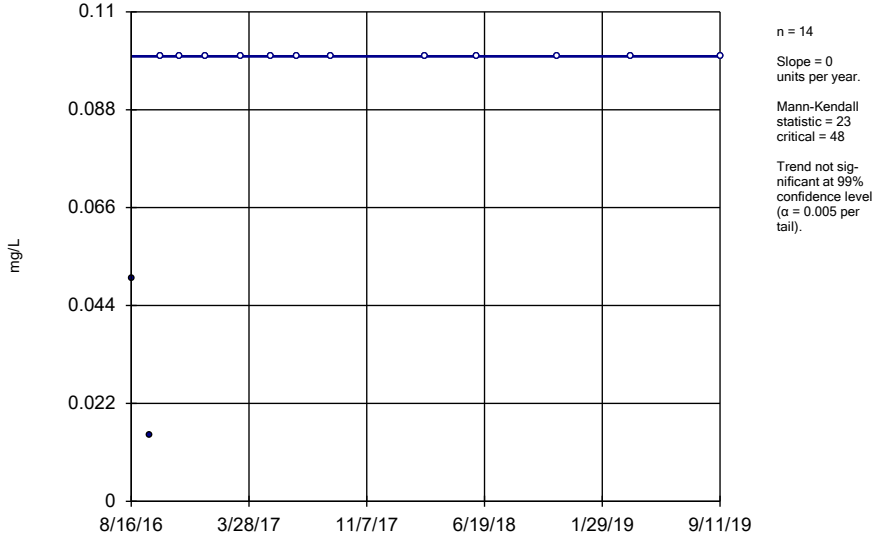
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 23
critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

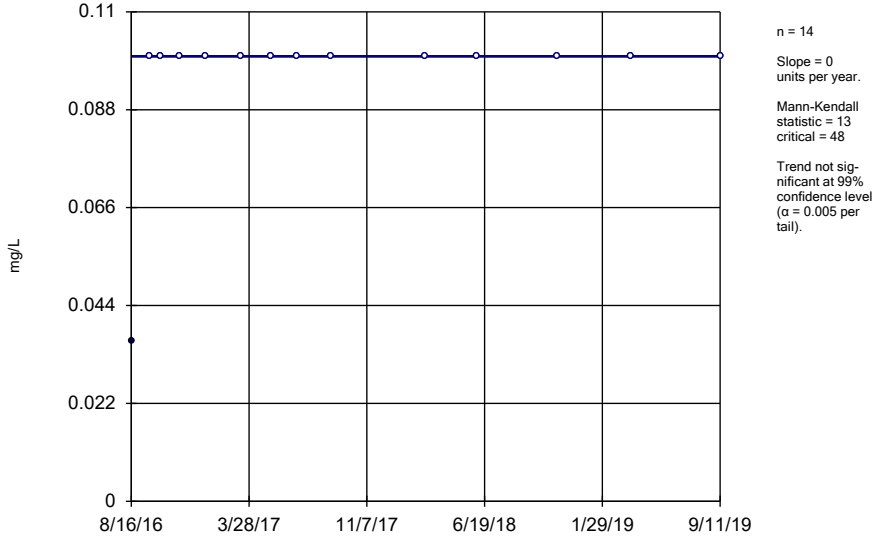
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 48

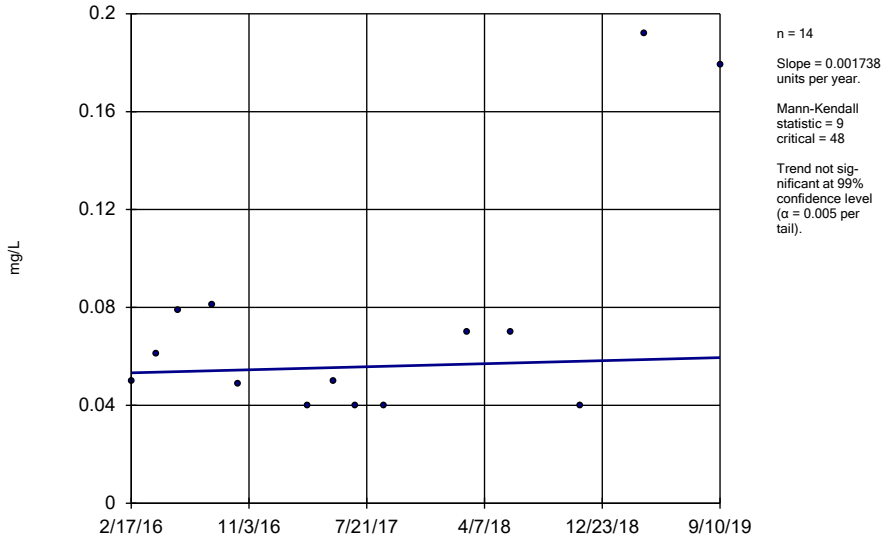
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = 0.001738 units per year.

Mann-Kendall statistic = 9
critical = 48

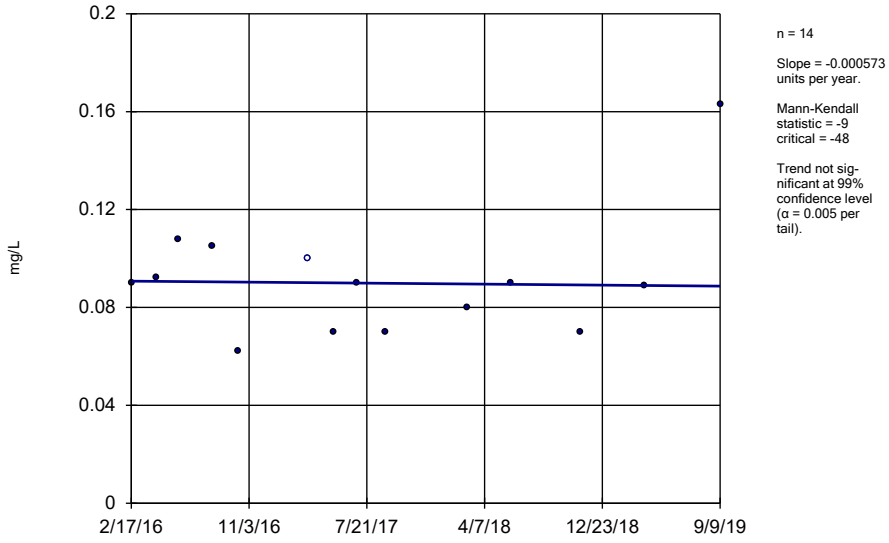
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = -0.000573 units per year.

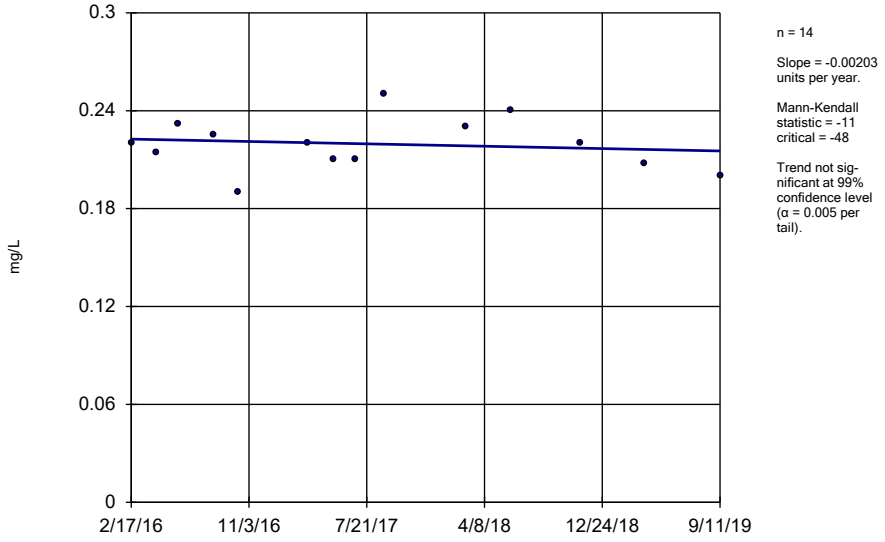
Mann-Kendall statistic = -9
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = -0.00203 units per year.

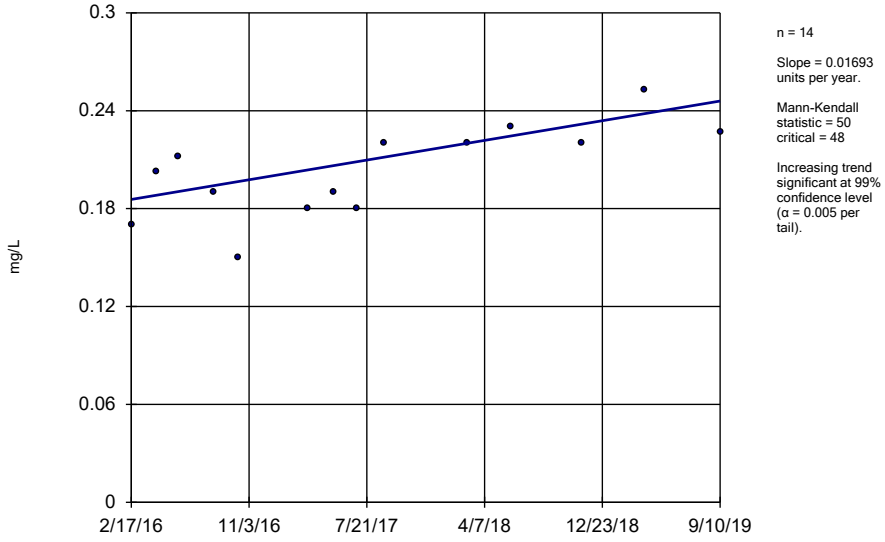
Mann-Kendall statistic = -11
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = 0.01693 units per year.

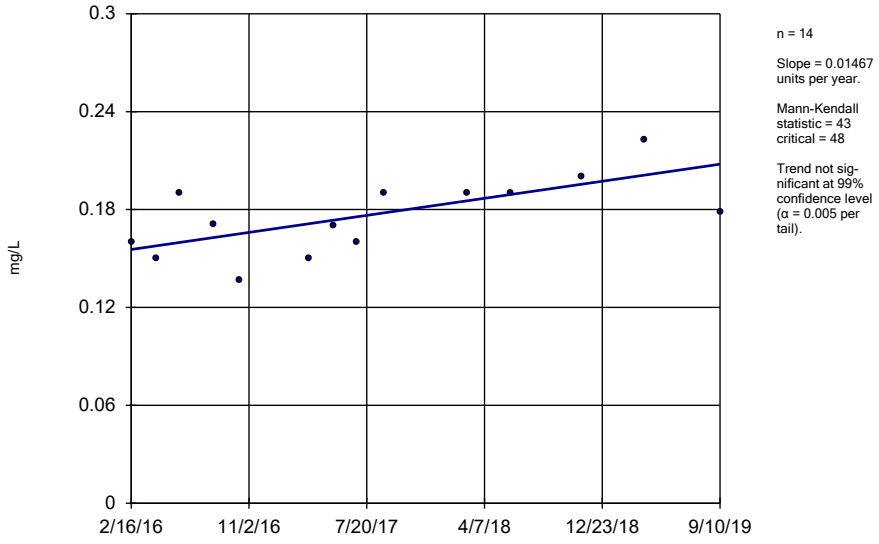
Mann-Kendall statistic = 50
critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 0.01467 units per year.

Mann-Kendall statistic = 43 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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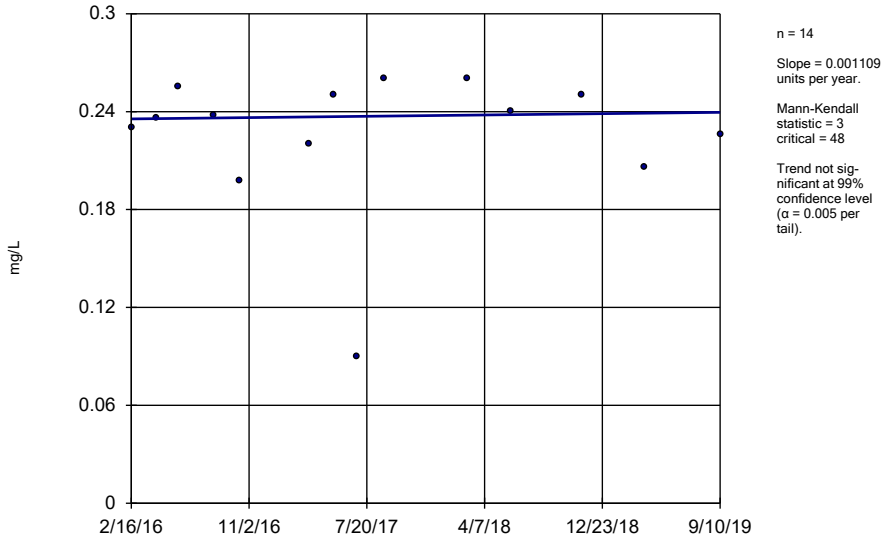
Sen's Slope Estimator

GC-AP-MW-10



n = 14

Slope = 0.001109 units per year.

Mann-Kendall statistic = 3 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

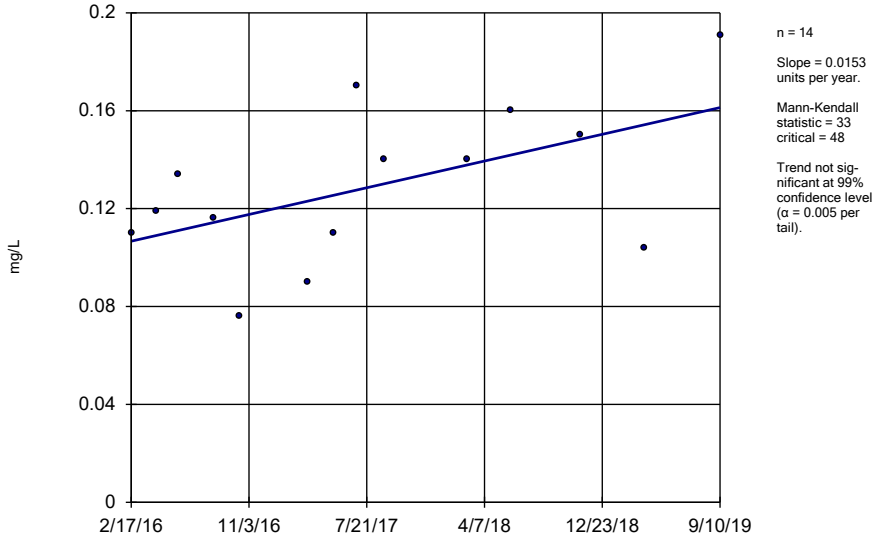
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 14

Slope = 0.0153 units per year.

Mann-Kendall statistic = 33 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

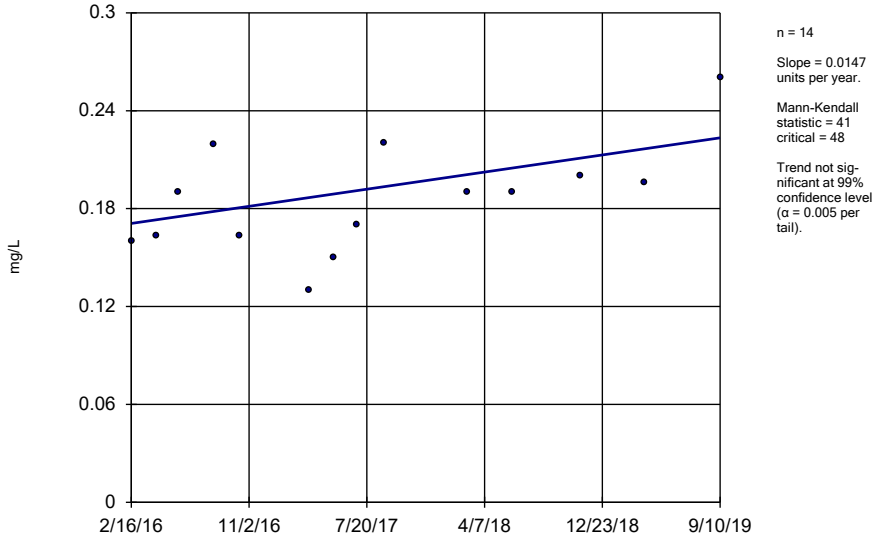
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 14

Slope = 0.0147 units per year.

Mann-Kendall statistic = 41 critical = 48

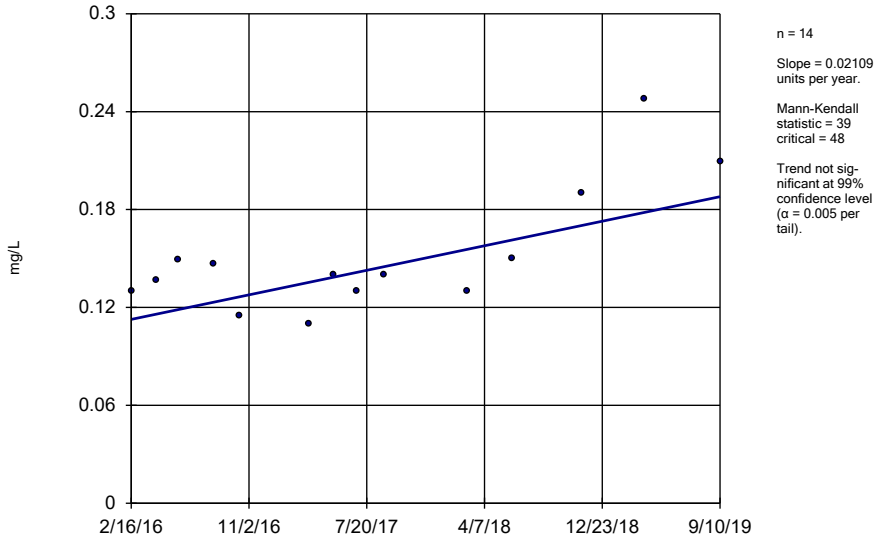
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = 0.02109 units per year.

Mann-Kendall statistic = 39 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

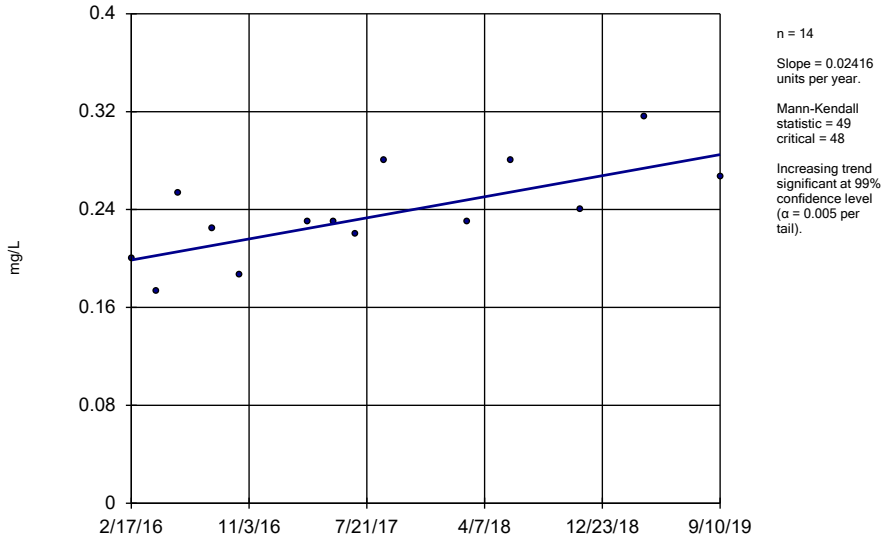
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 14

Slope = 0.02416 units per year.

Mann-Kendall statistic = 49 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

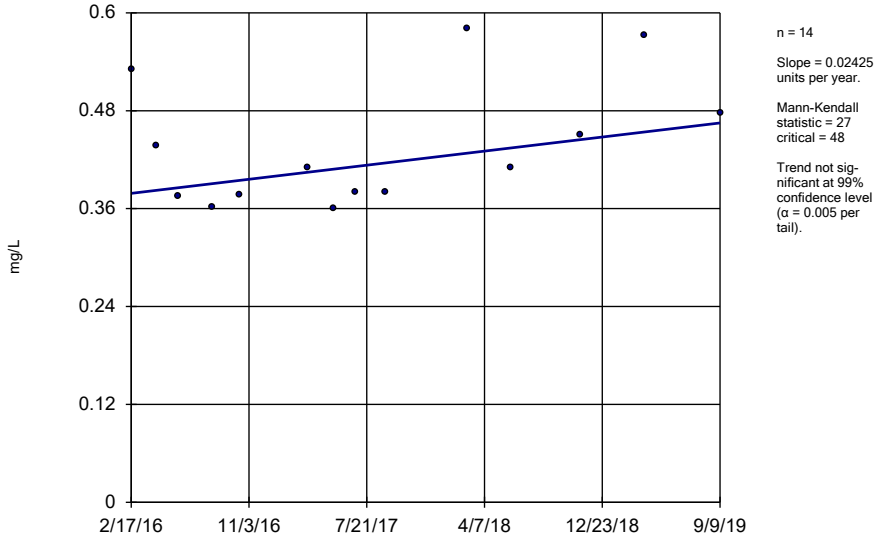
Constituent: Fluoride Analysis Run 1/21/2020 1:36 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 14

Slope = 0.02425 units per year.

Mann-Kendall statistic = 27 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

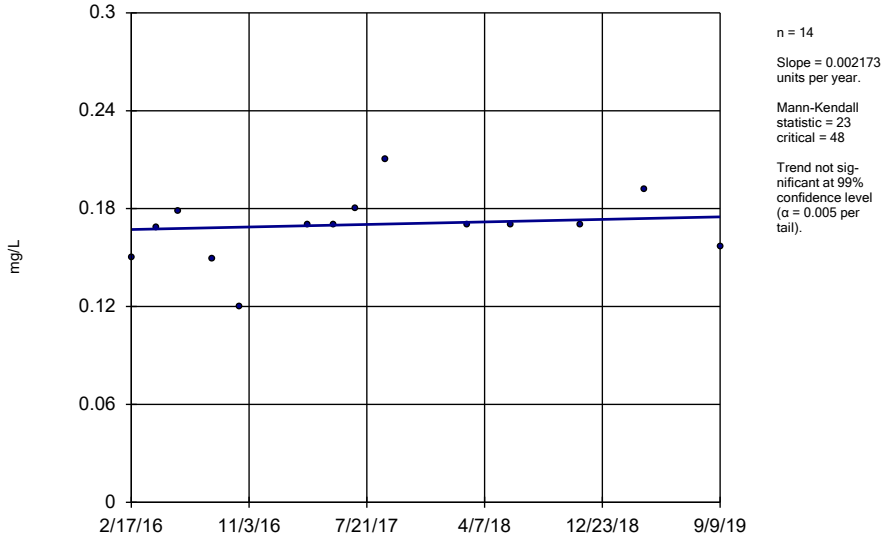
Constituent: Fluoride Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 14

Slope = 0.002173 units per year.

Mann-Kendall statistic = 23 critical = 48

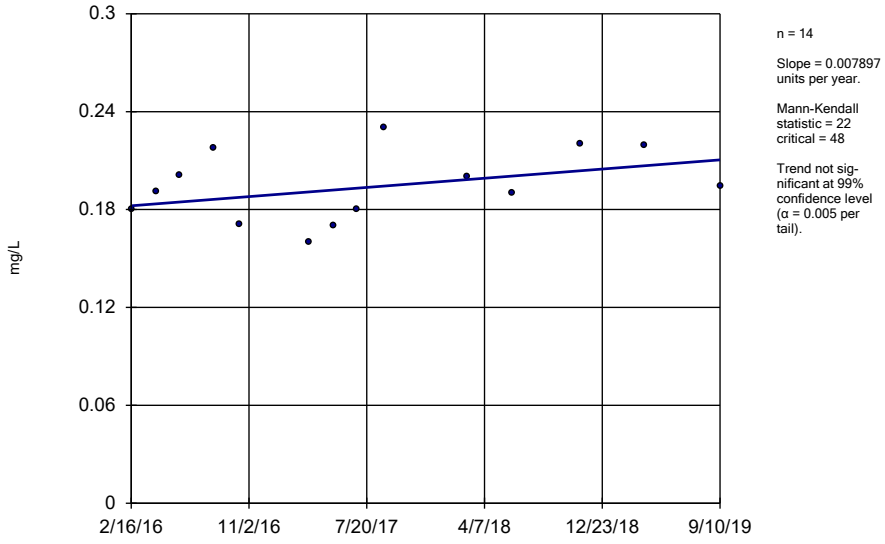
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-21



n = 14

Slope = 0.007897 units per year.

Mann-Kendall statistic = 22
critical = 48

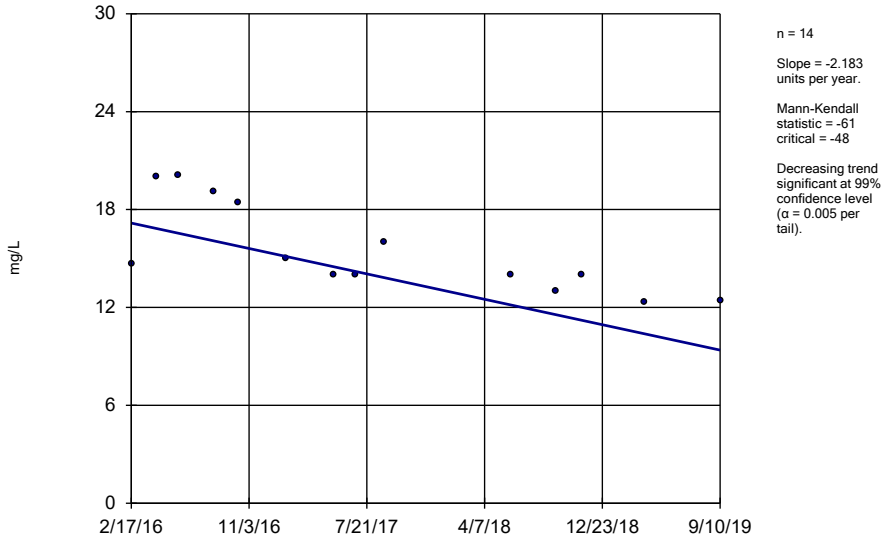
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 1/21/2020 1:37 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = -2.183 units per year.

Mann-Kendall statistic = -61
critical = -48

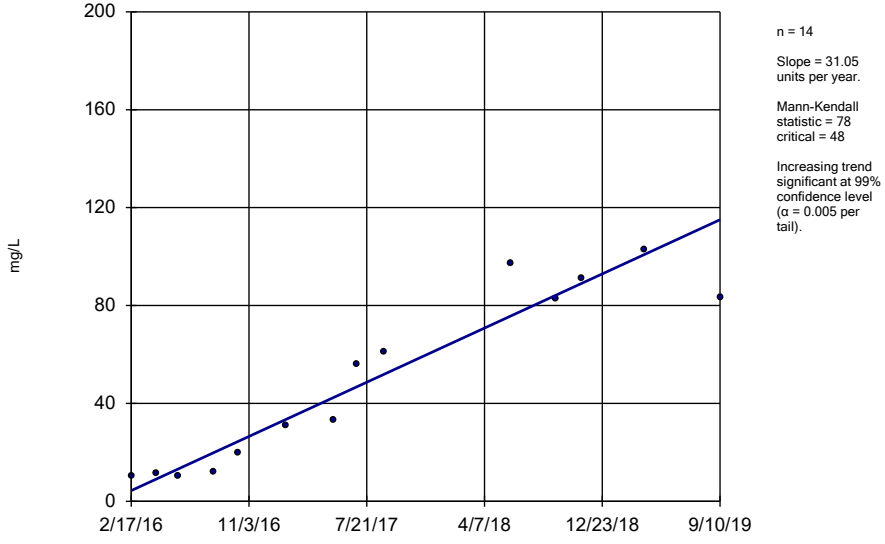
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 31.05 units per year.

Mann-Kendall statistic = 78
critical = 48

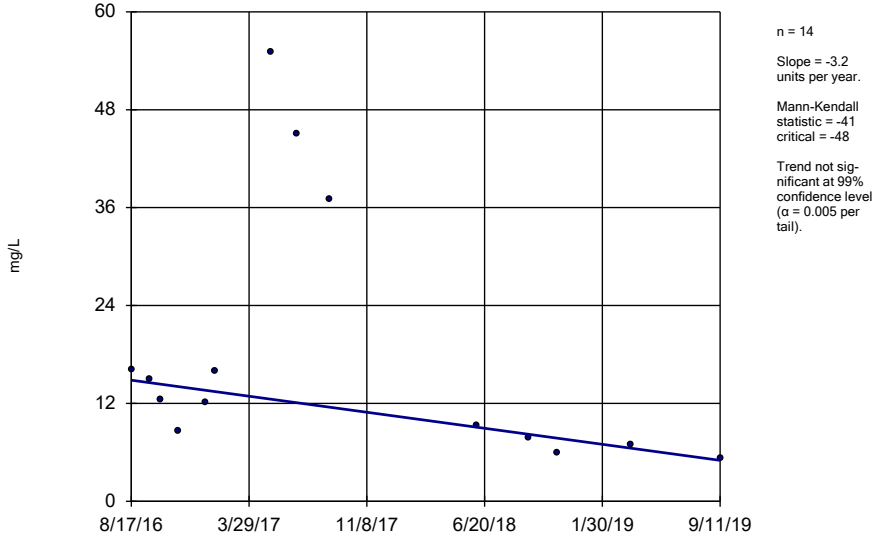
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 14

Slope = -3.2 units per year.

Mann-Kendall statistic = -41
critical = -48

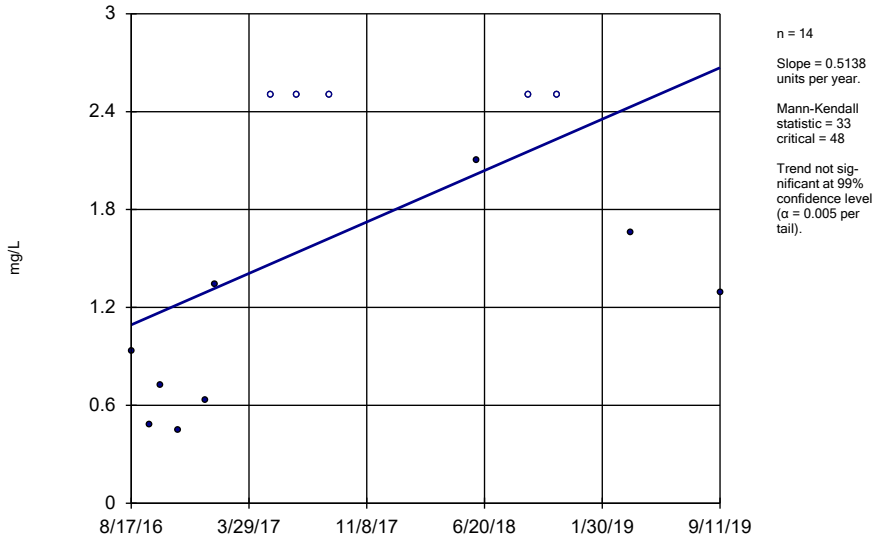
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = 0.5138 units per year.

Mann-Kendall statistic = 33 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

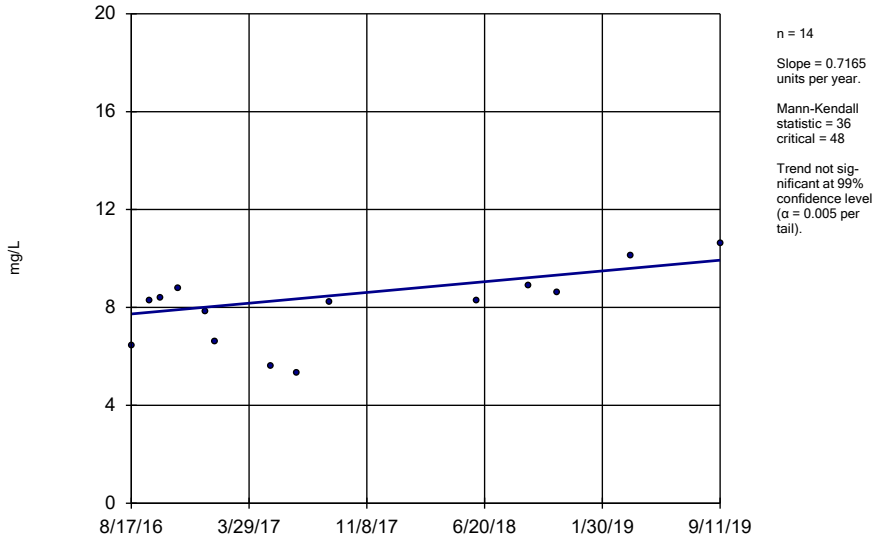
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = 0.7165 units per year.

Mann-Kendall statistic = 36 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

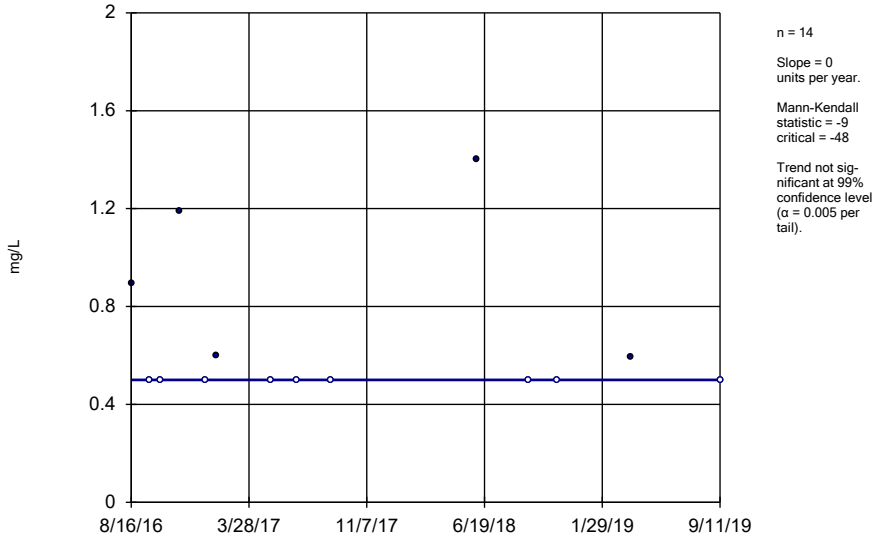
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -9 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

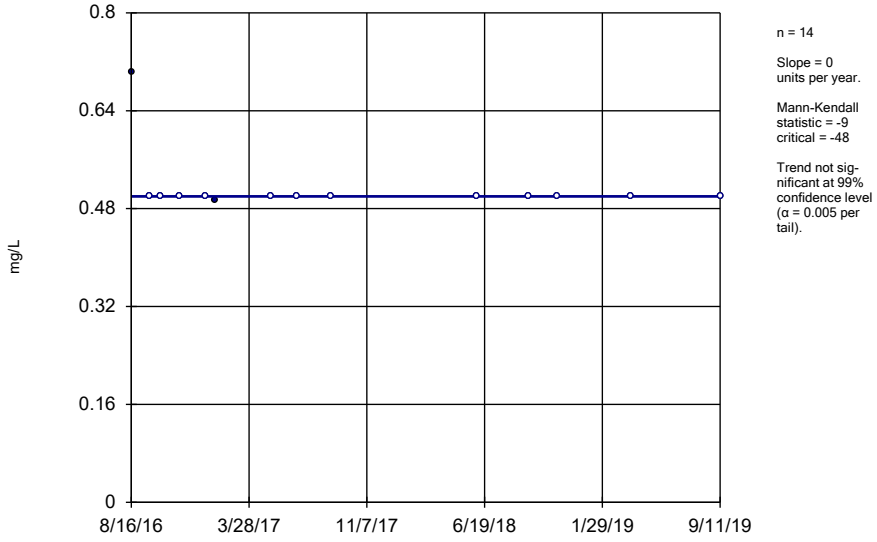
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -9 critical = -48

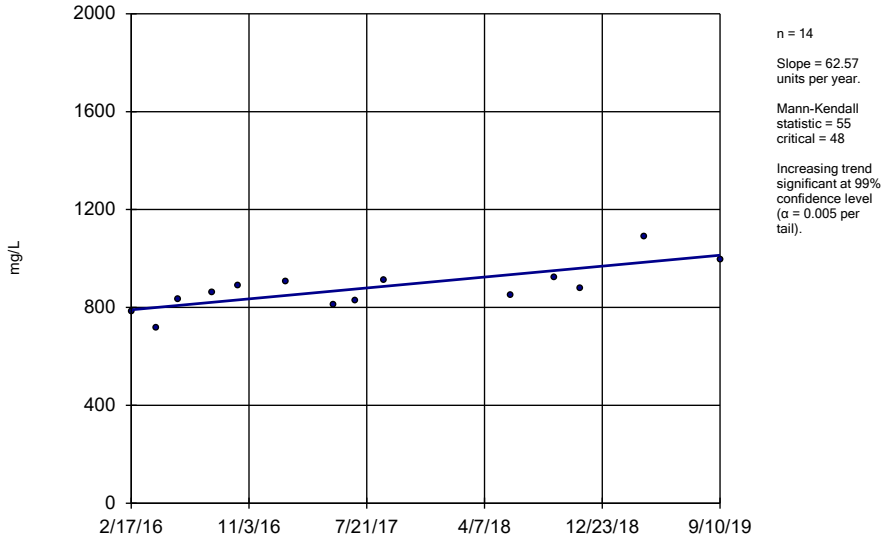
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = 62.57 units per year.

Mann-Kendall statistic = 55 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

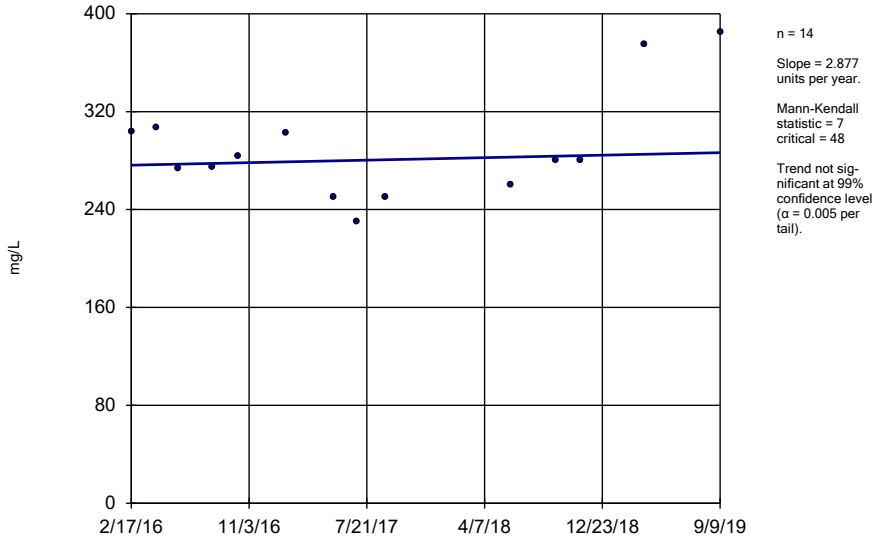
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = 2.877 units per year.

Mann-Kendall statistic = 7 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

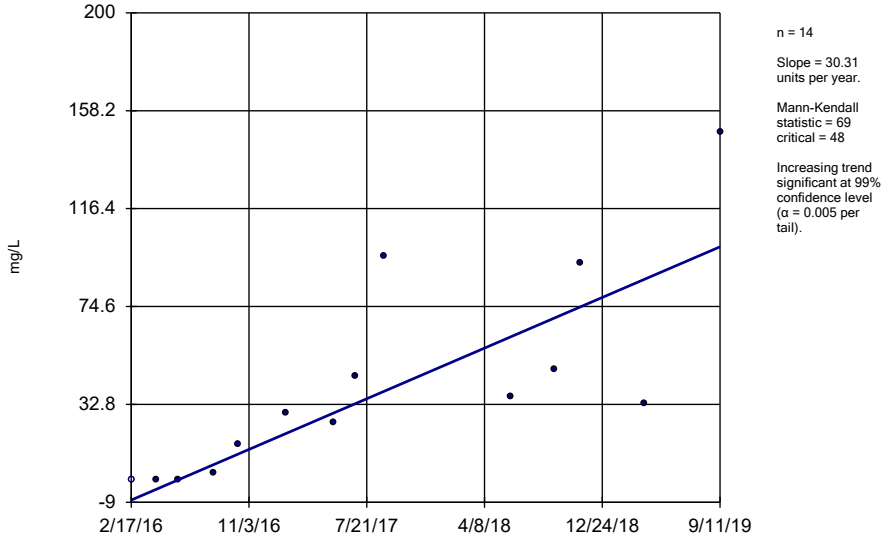
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = 30.31 units per year.

Mann-Kendall statistic = 69 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

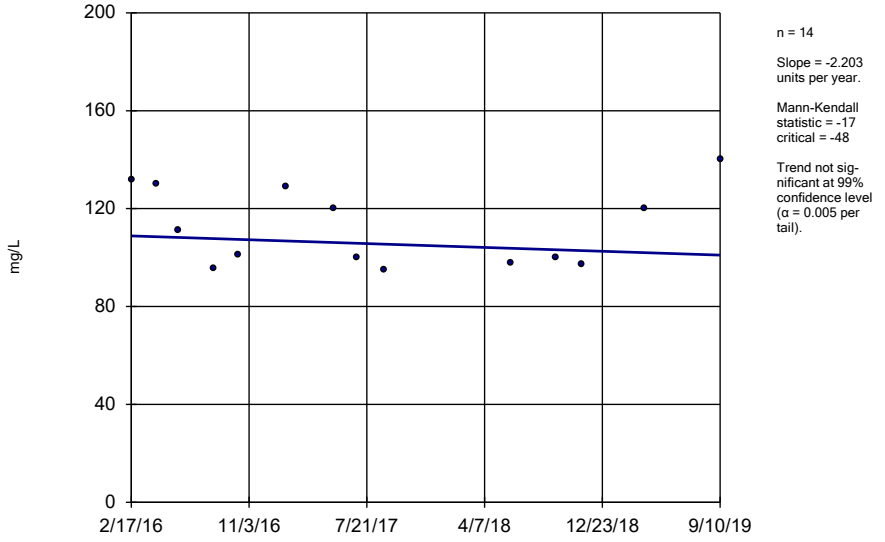
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = -2.203 units per year.

Mann-Kendall statistic = -17 critical = -48

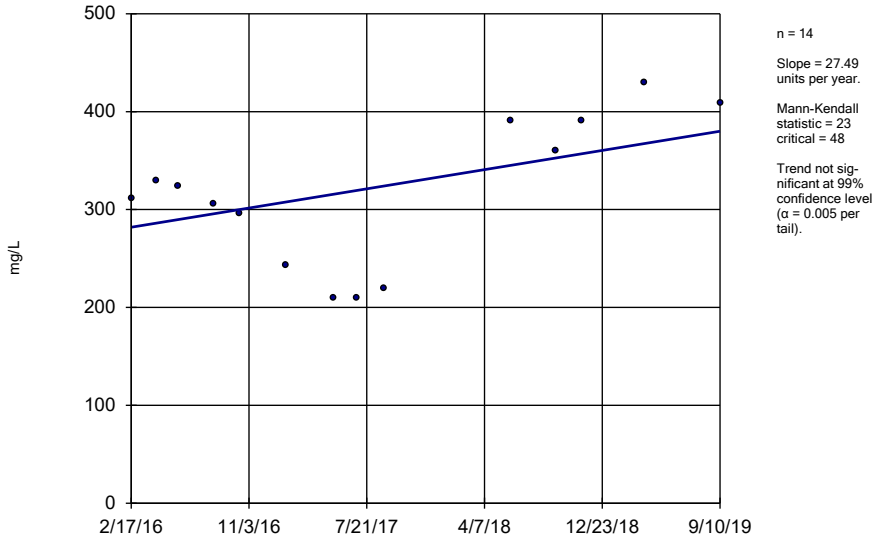
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7



n = 14

Slope = 27.49 units per year.

Mann-Kendall statistic = 23 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

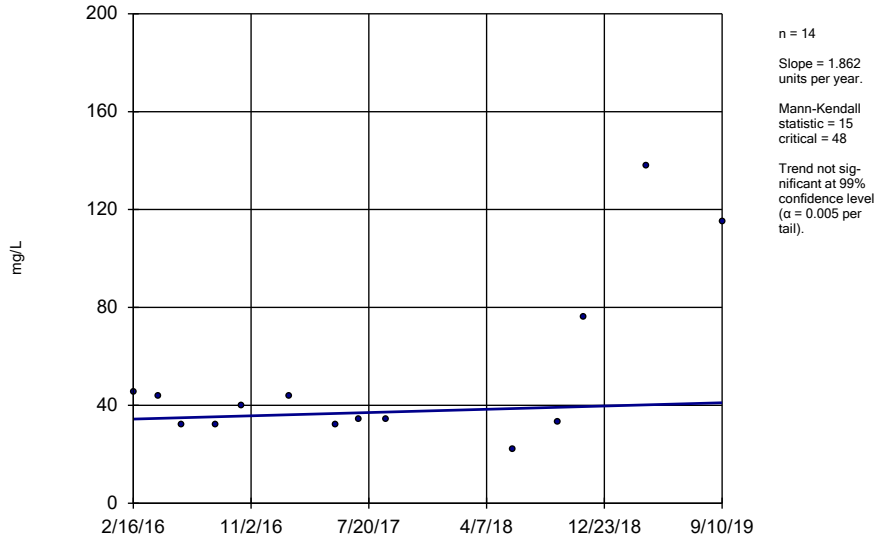
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 1.862 units per year.

Mann-Kendall statistic = 15 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

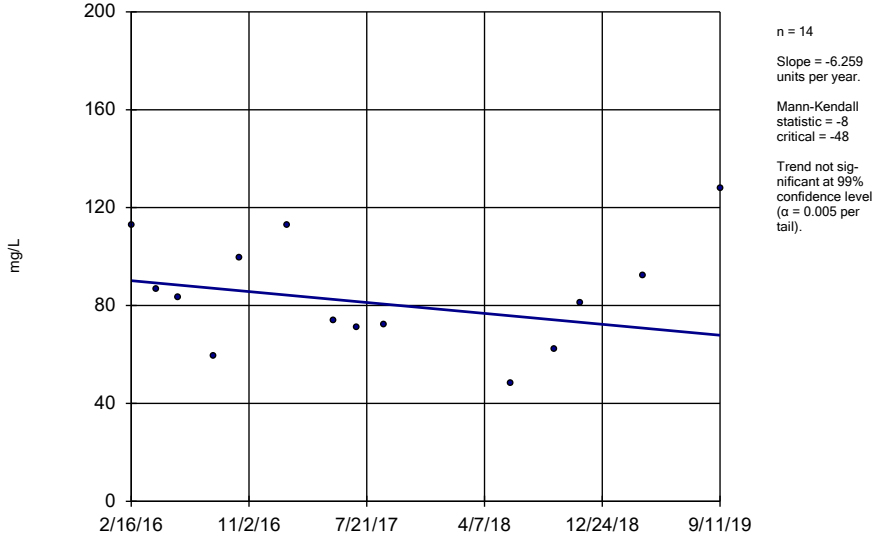
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 14

Slope = -6.259 units per year.

Mann-Kendall statistic = -8 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

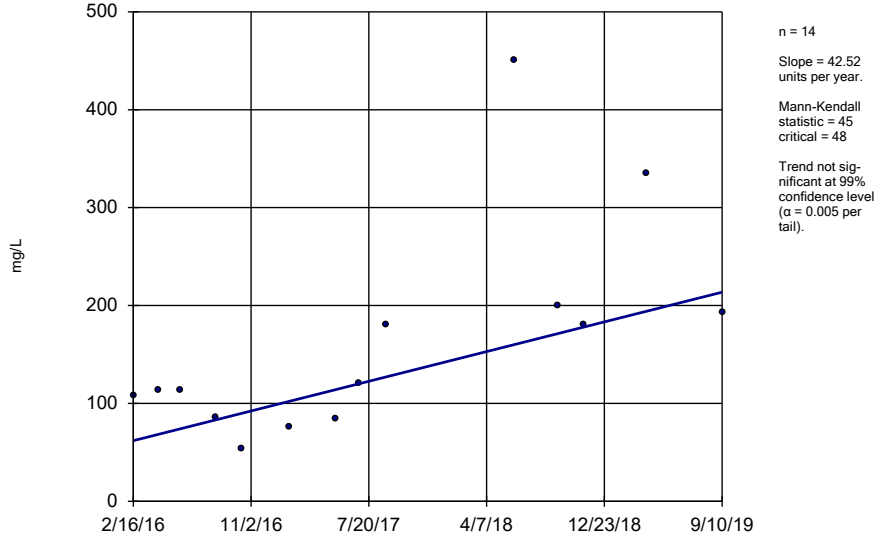
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = 42.52 units per year.

Mann-Kendall statistic = 45 critical = 48

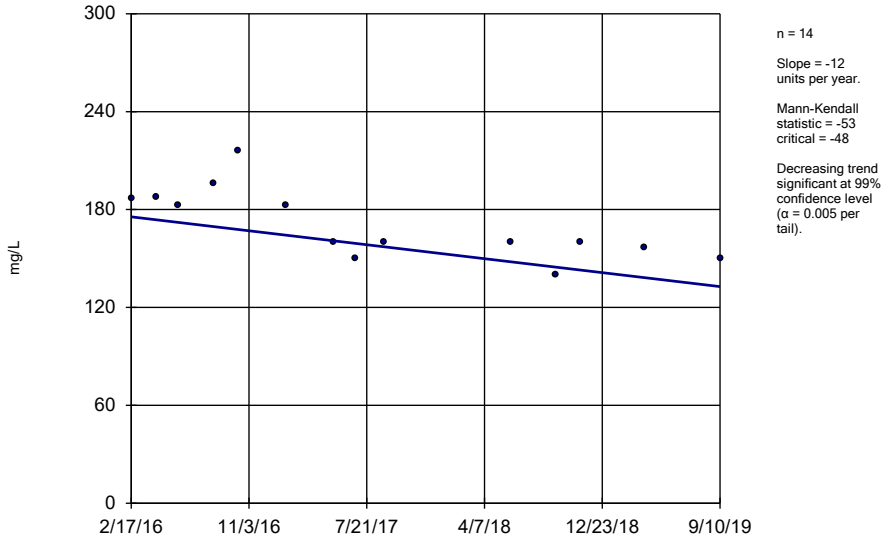
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15



n = 14

Slope = -12 units per year.

Mann-Kendall statistic = -53 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

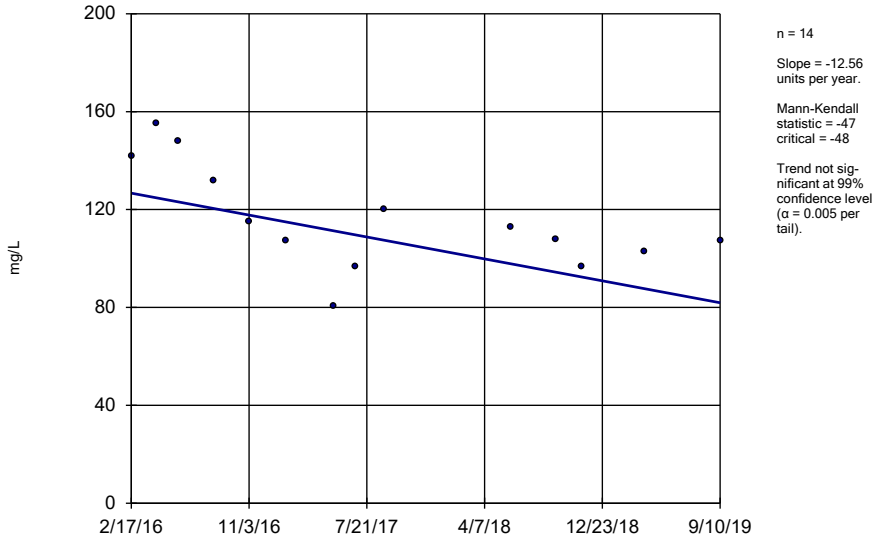
Constituent: Sulfate Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = -12.56 units per year.

Mann-Kendall statistic = -47 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

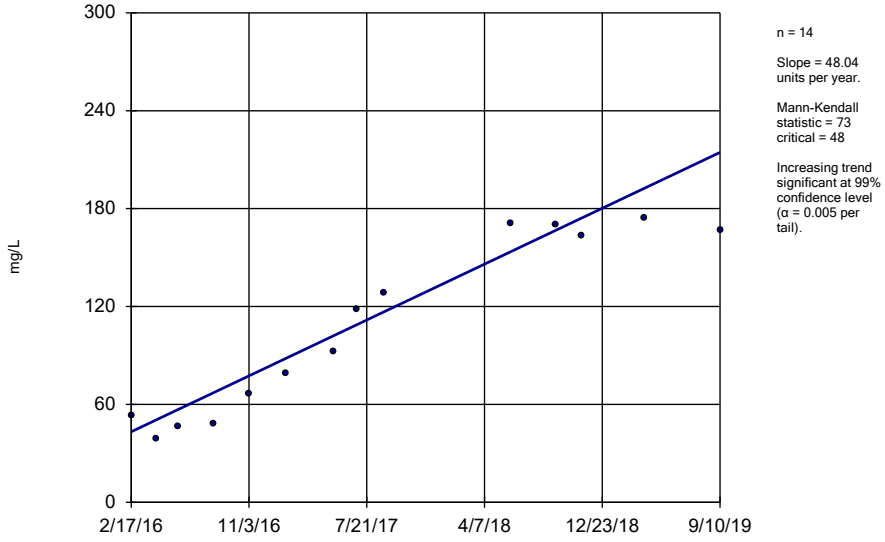
Constituent: TDS Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 48.04 units per year.

Mann-Kendall statistic = 73 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

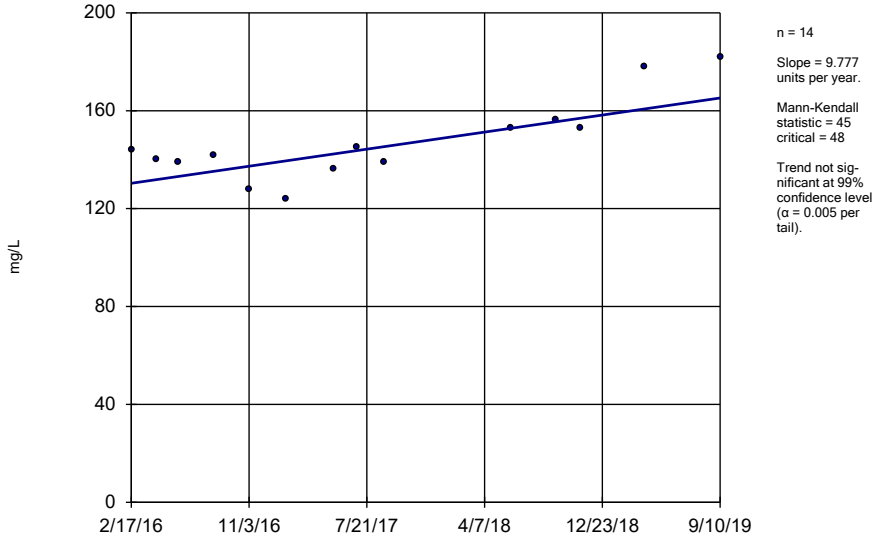
Constituent: TDS Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 14

Slope = 9.777 units per year.

Mann-Kendall statistic = 45 critical = 48

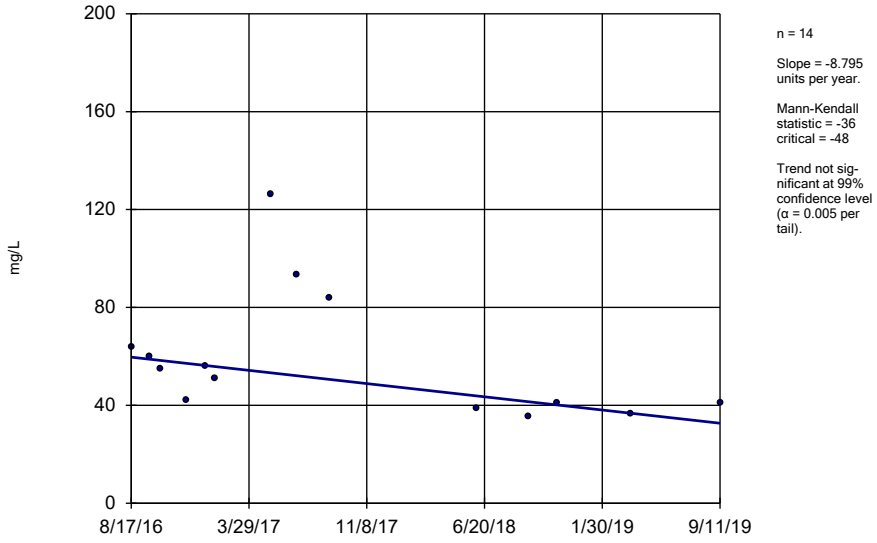
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 14

Slope = -8.795 units per year.

Mann-Kendall statistic = -36 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

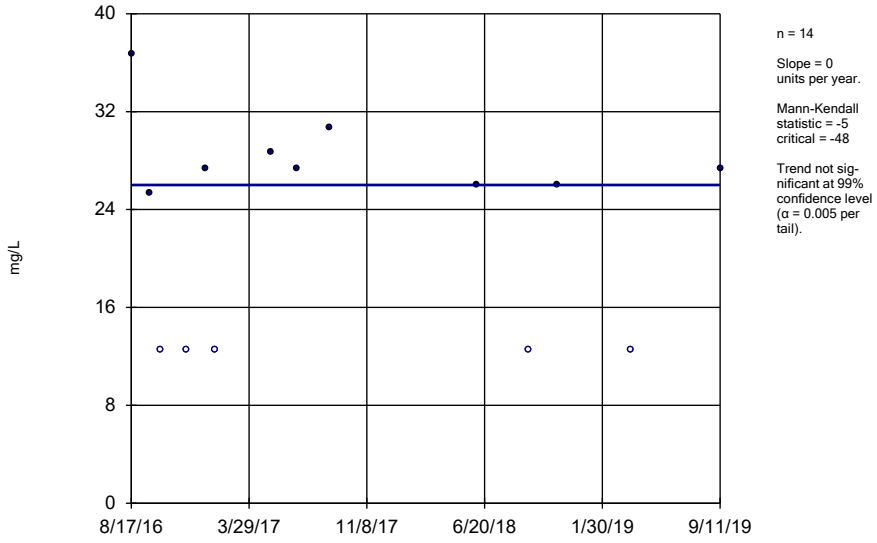
Constituent: TDS Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -48

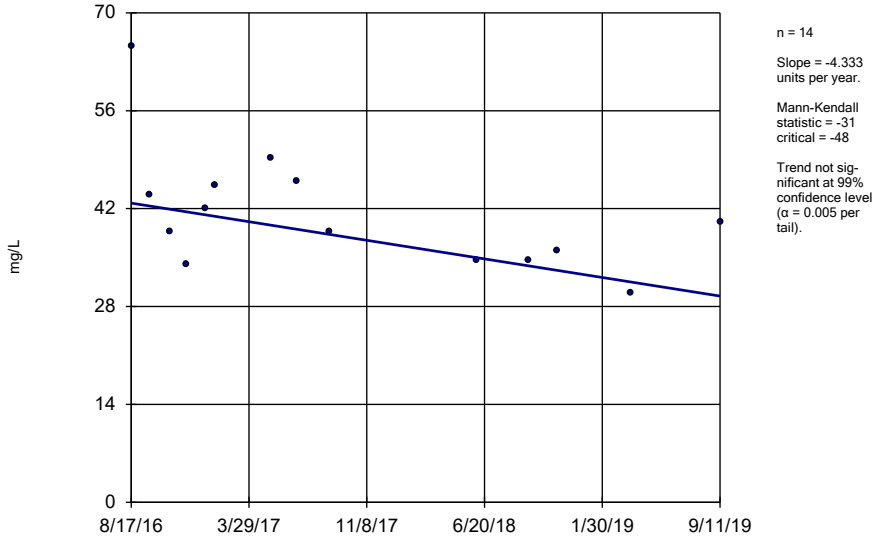
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:37 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = -4.333 units per year.

Mann-Kendall statistic = -31 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

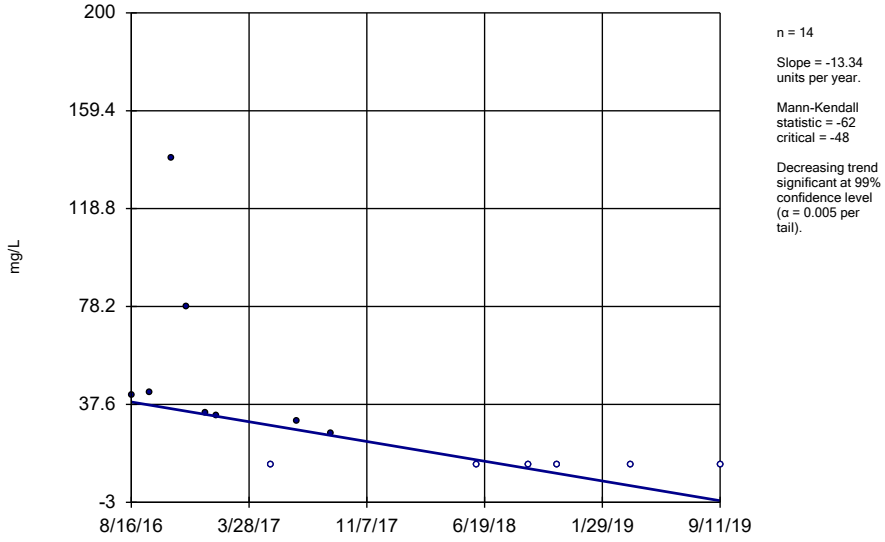
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = -13.34 units per year.

Mann-Kendall statistic = -62 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

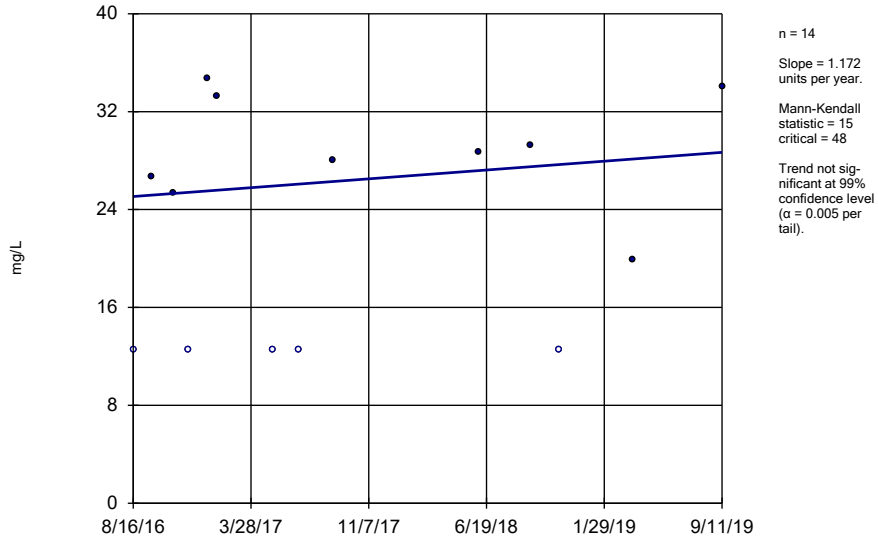
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = 1.172 units per year.

Mann-Kendall statistic = 15 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

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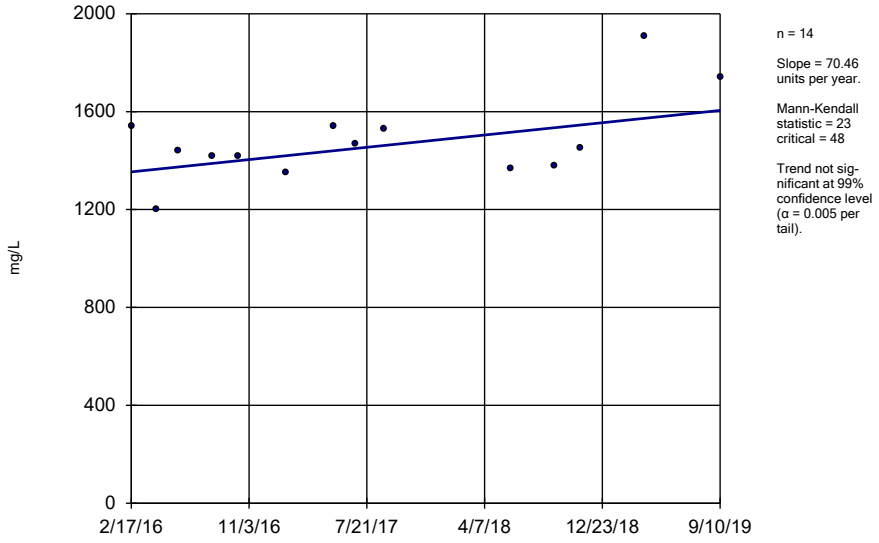
Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = 70.46 units per year.

Mann-Kendall statistic = 23 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

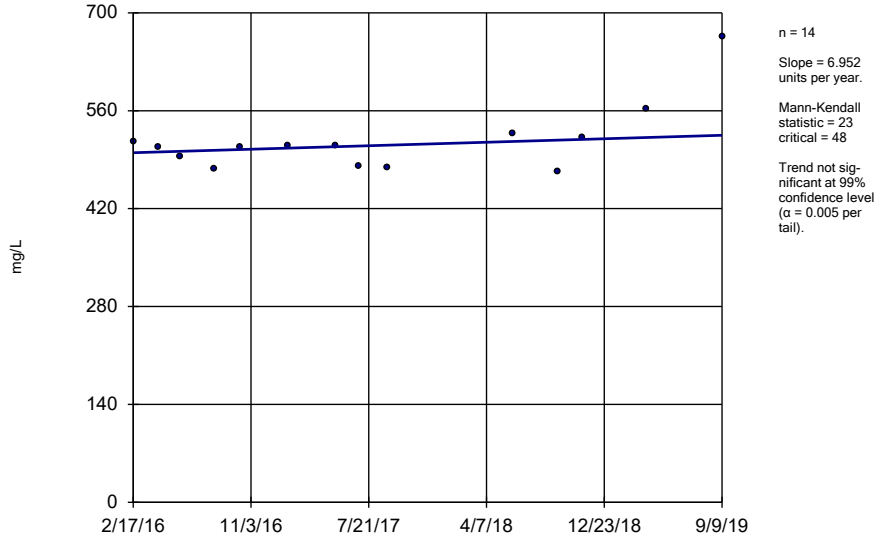
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = 6.952 units per year.

Mann-Kendall statistic = 23 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

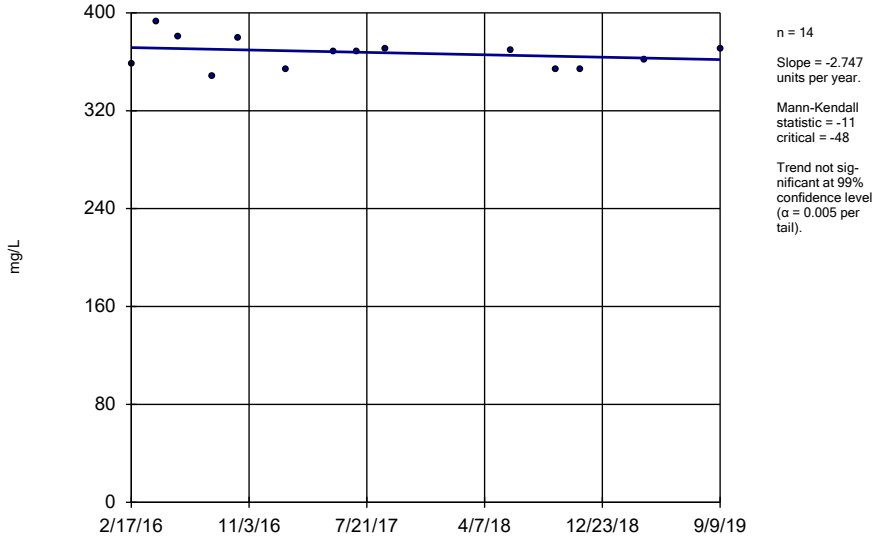
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 14

Slope = -2.747 units per year.

Mann-Kendall statistic = -11 critical = -48

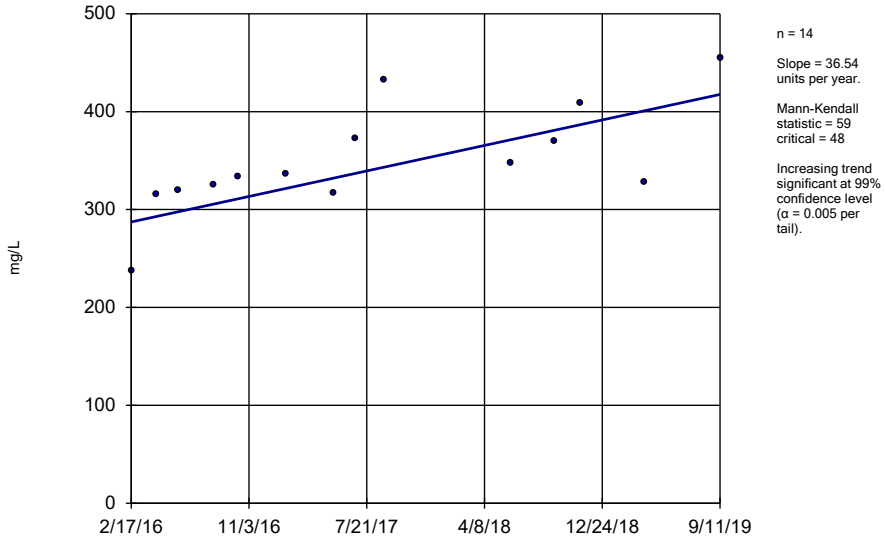
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = 36.54 units per year.

Mann-Kendall statistic = 59
critical = 48

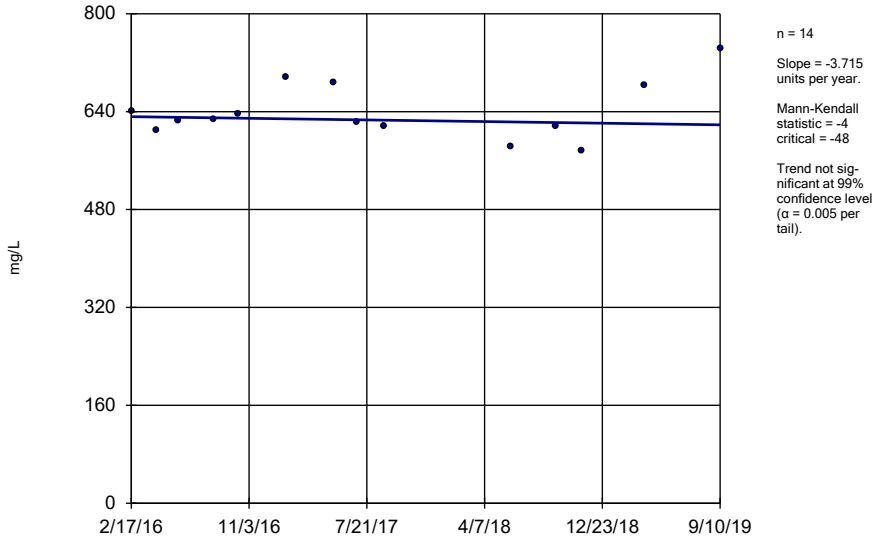
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = -3.715 units per year.

Mann-Kendall statistic = -4
critical = -48

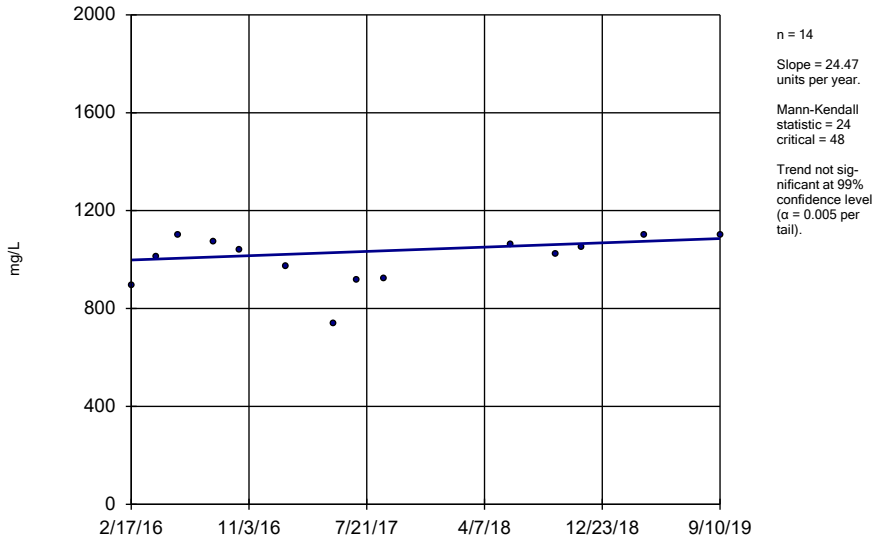
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 14

Slope = 24.47 units per year.

Mann-Kendall statistic = 24
critical = 48

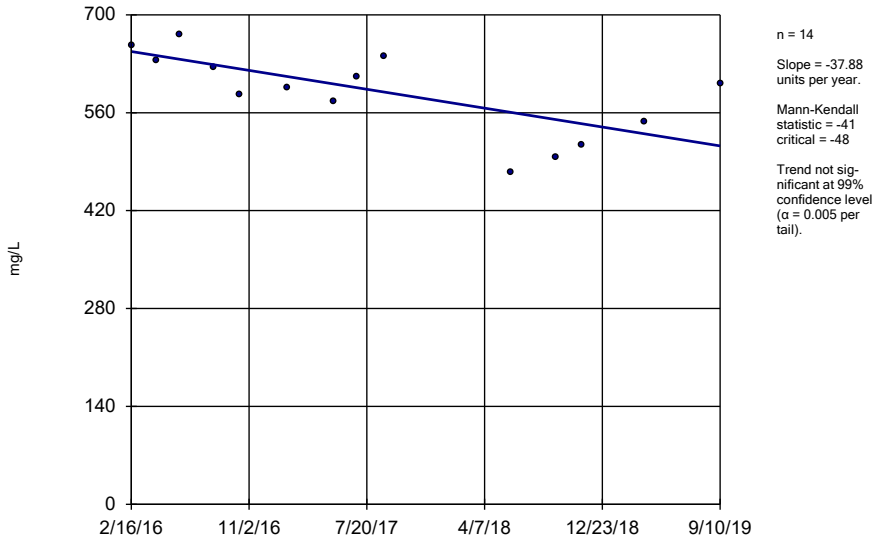
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 14

Slope = -37.88 units per year.

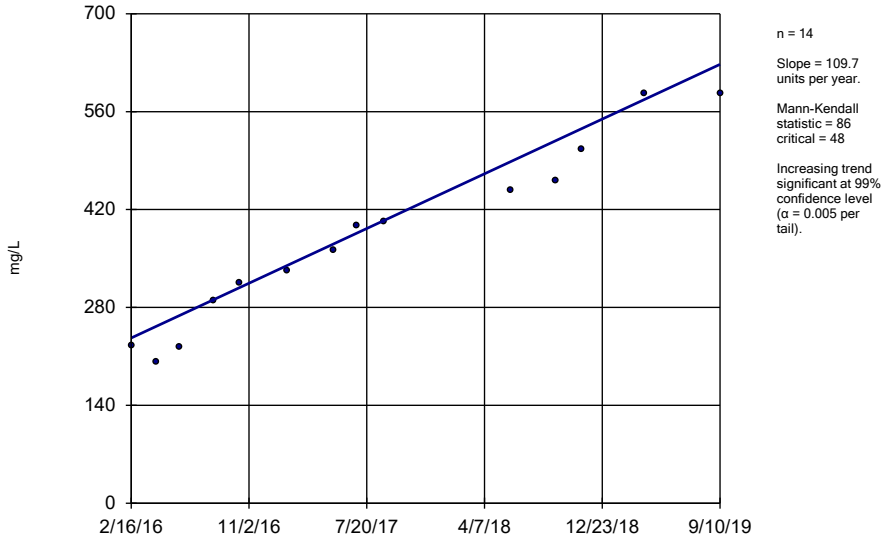
Mann-Kendall statistic = -41
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 109.7 units per year.

Mann-Kendall statistic = 86 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

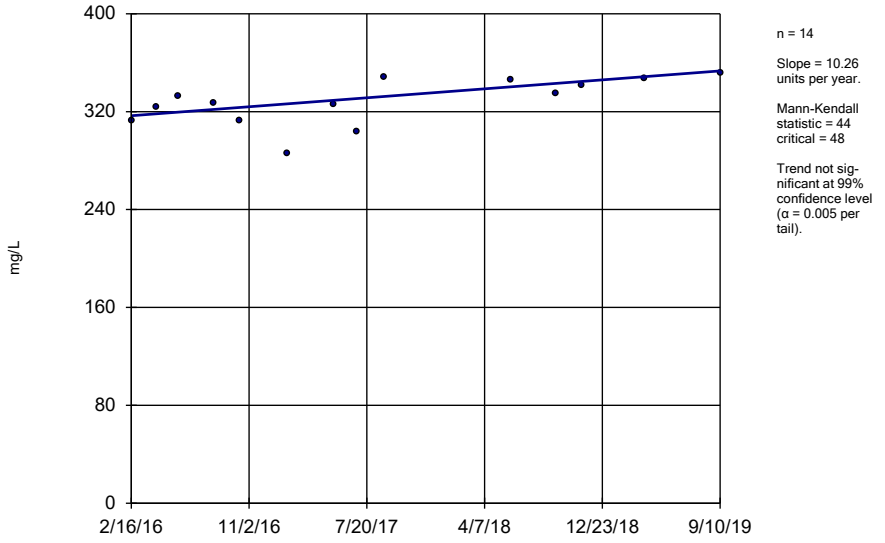
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 14

Slope = 10.26 units per year.

Mann-Kendall statistic = 44 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

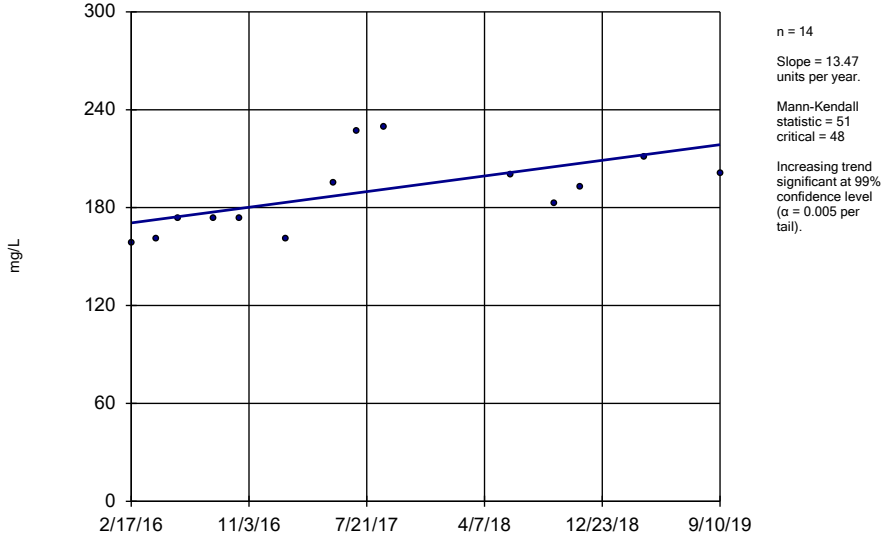
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 14

Slope = 13.47 units per year.

Mann-Kendall statistic = 51 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

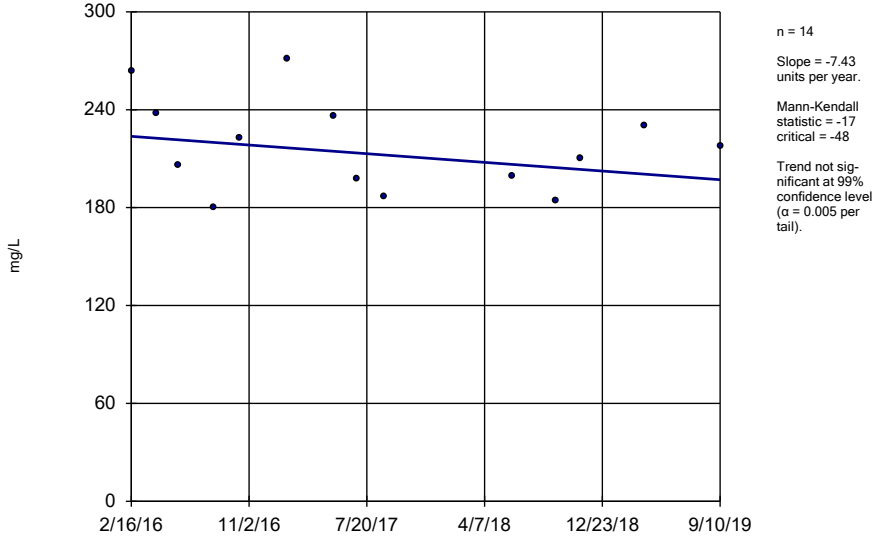
Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 14

Slope = -7.43 units per year.

Mann-Kendall statistic = -17 critical = -48

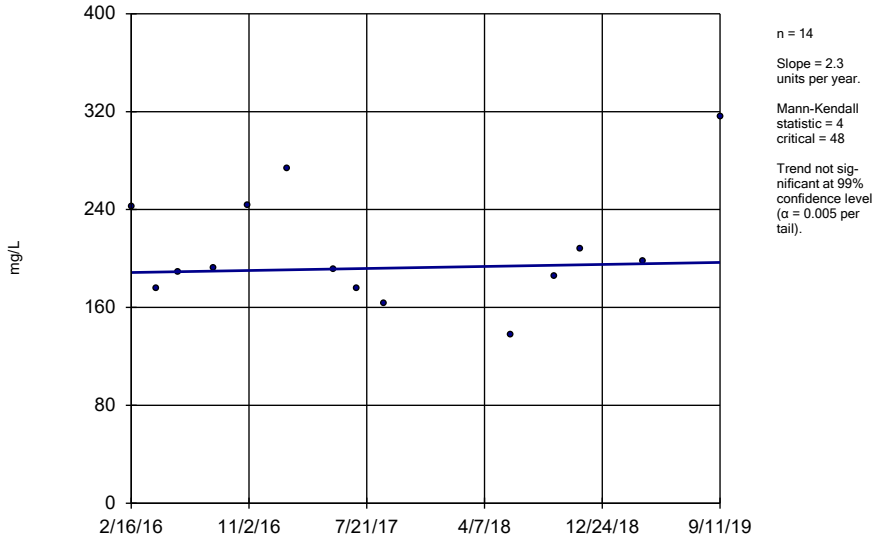
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-13



n = 14

Slope = 2.3 units per year.

Mann-Kendall statistic = 4 critical = 48

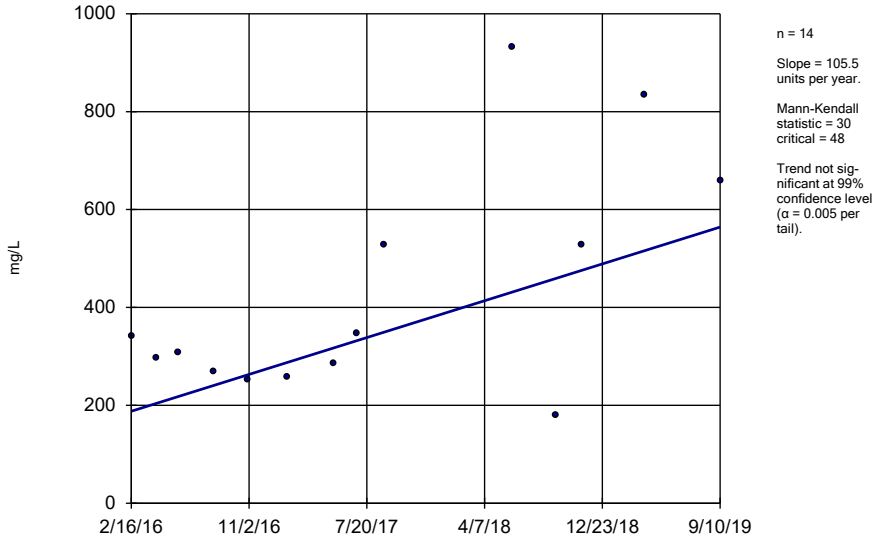
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = 105.5 units per year.

Mann-Kendall statistic = 30 critical = 48

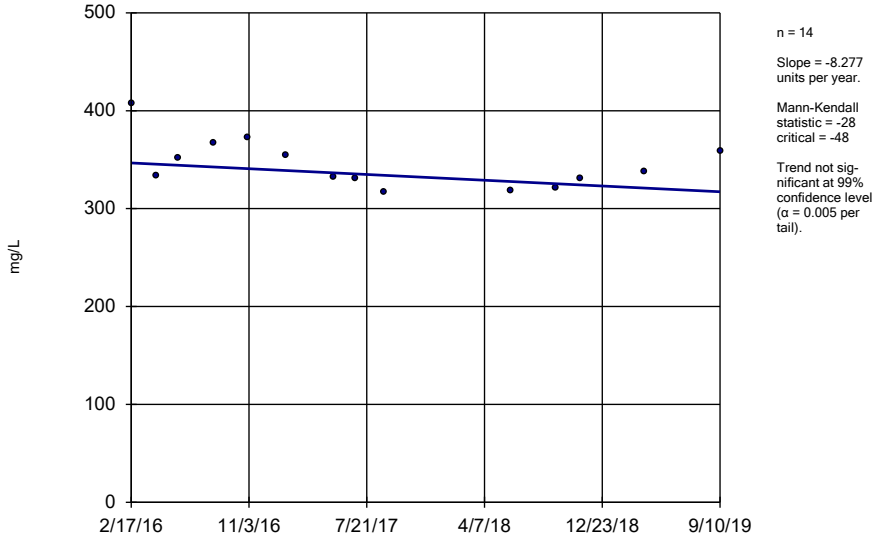
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15



n = 14

Slope = -8.277 units per year.

Mann-Kendall statistic = -28 critical = -48

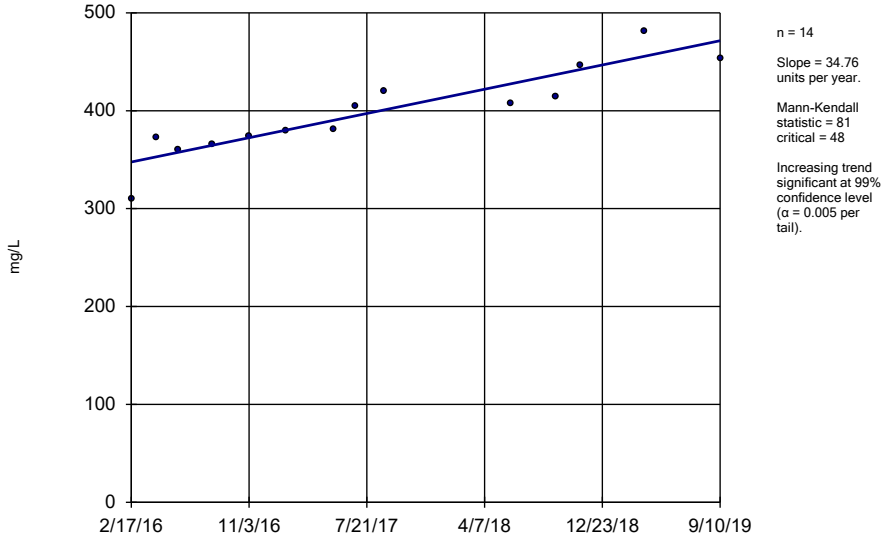
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16



n = 14

Slope = 34.76 units per year.

Mann-Kendall statistic = 81 critical = 48

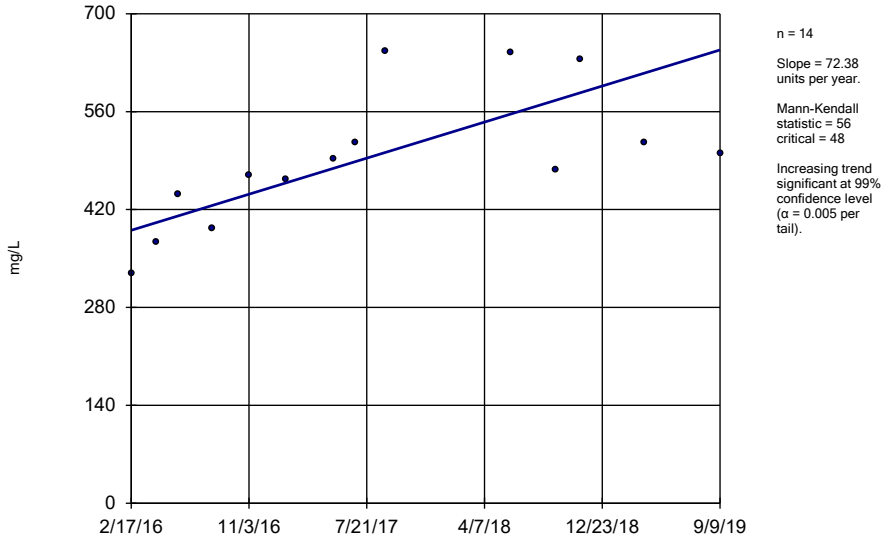
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:38 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17



n = 14

Slope = 72.38 units per year.

Mann-Kendall statistic = 56
critical = 48

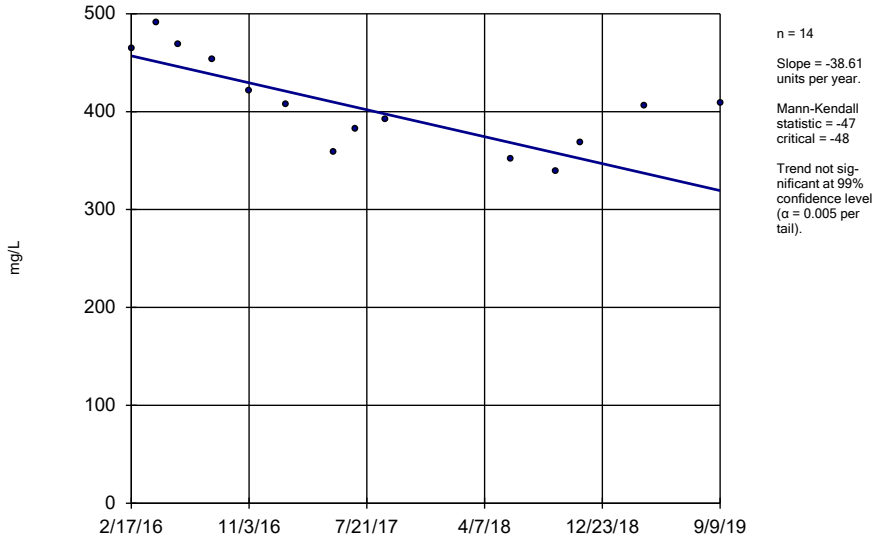
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:39 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 14

Slope = -38.61 units per year.

Mann-Kendall statistic = -47
critical = -48

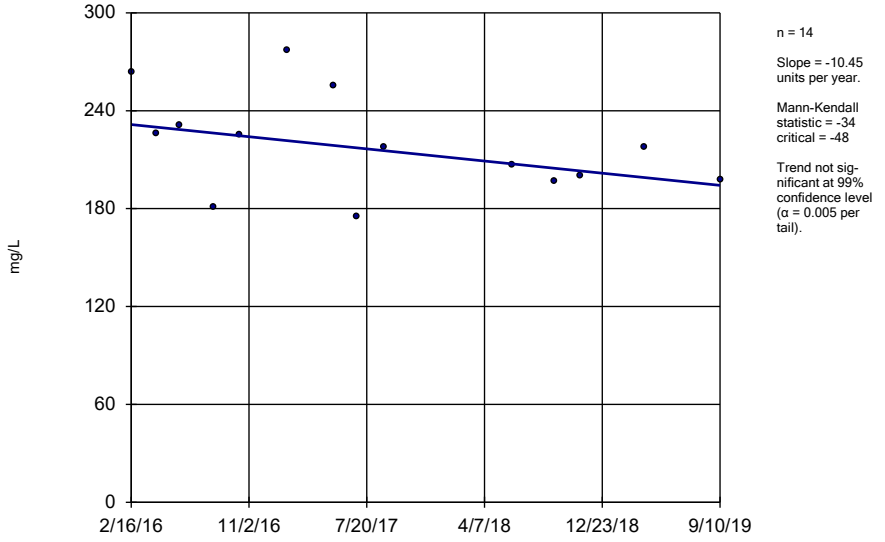
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:39 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 14

Slope = -10.45 units per year.

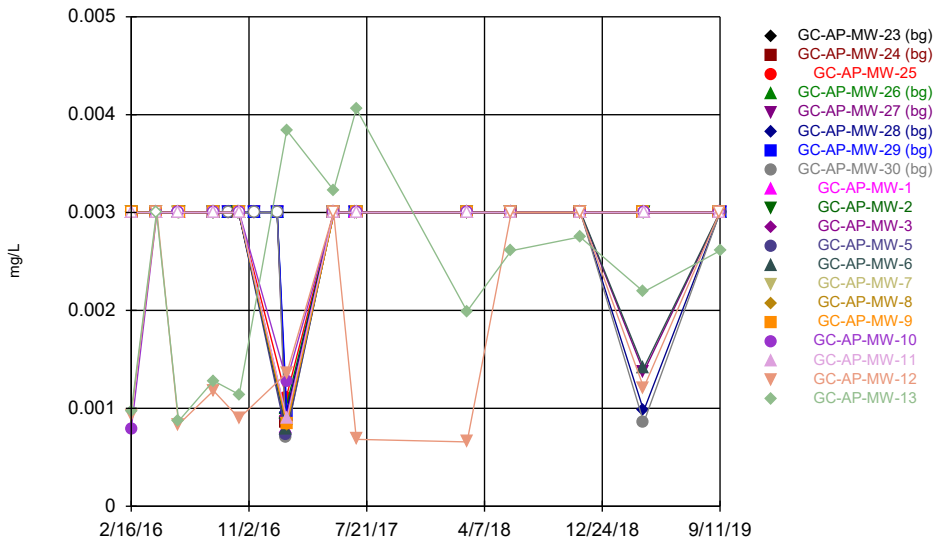
Mann-Kendall statistic = -34
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 1/21/2020 1:39 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

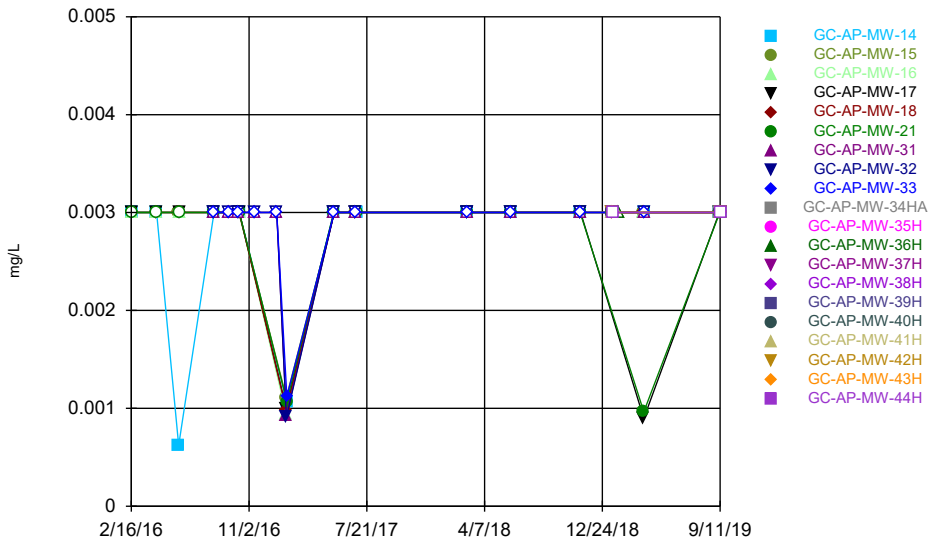
Time Series



Constituent: Antimony Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

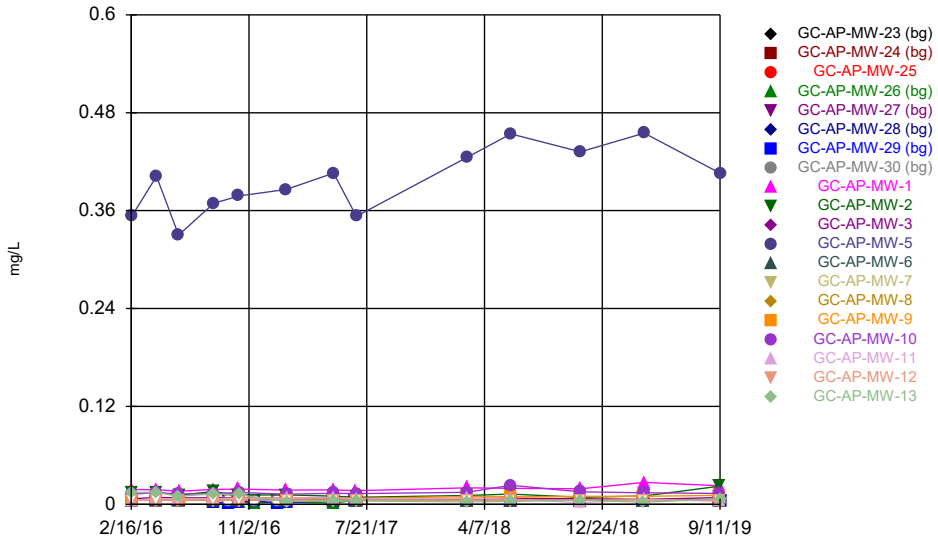
Time Series



Constituent: Antimony Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

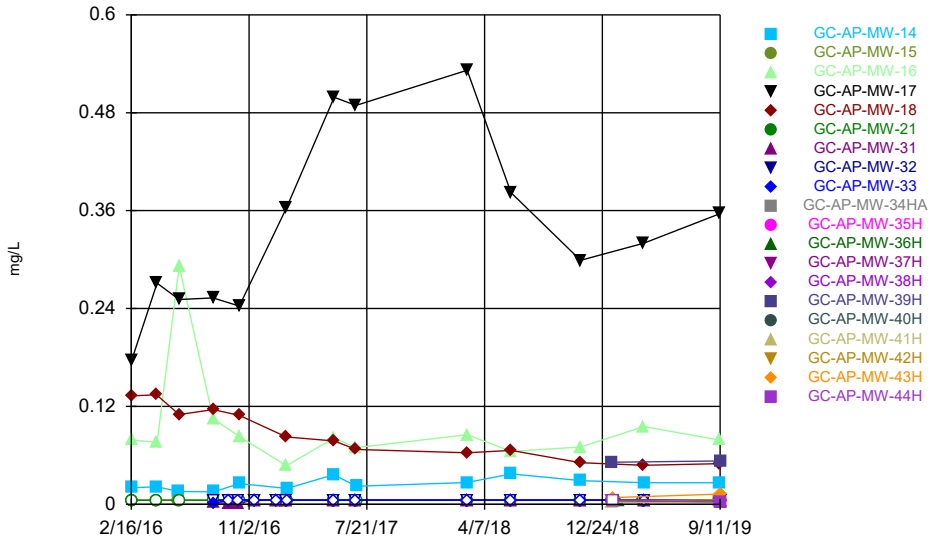
Time Series



Constituent: Arsenic Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

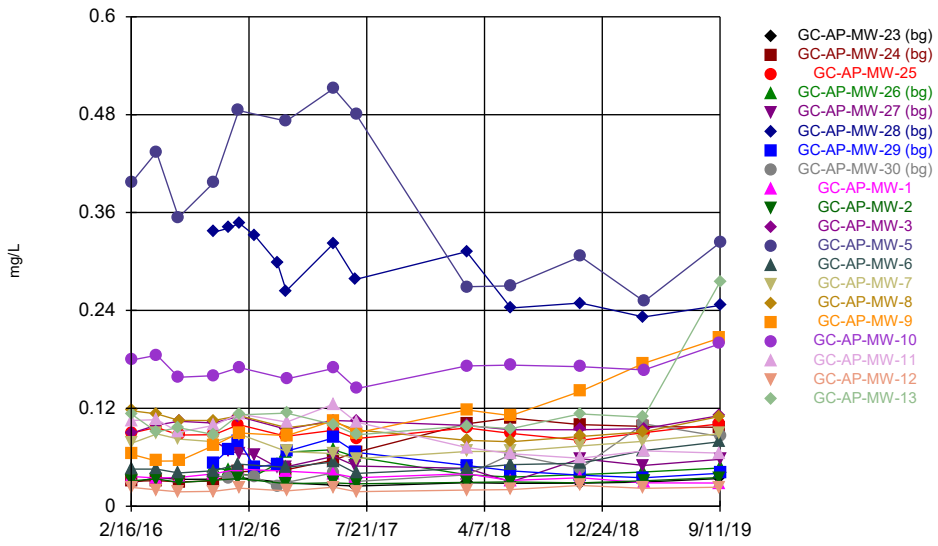
Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

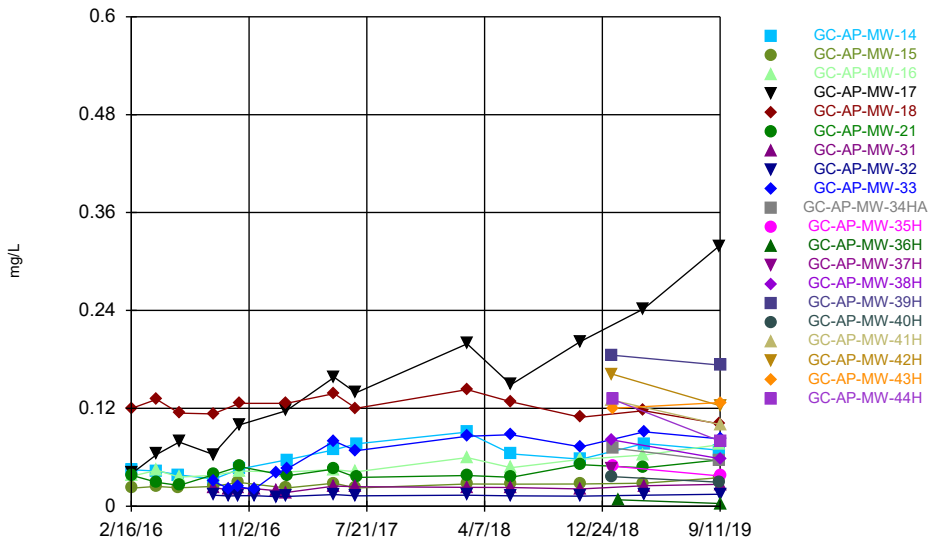
Time Series



Constituent: Barium Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

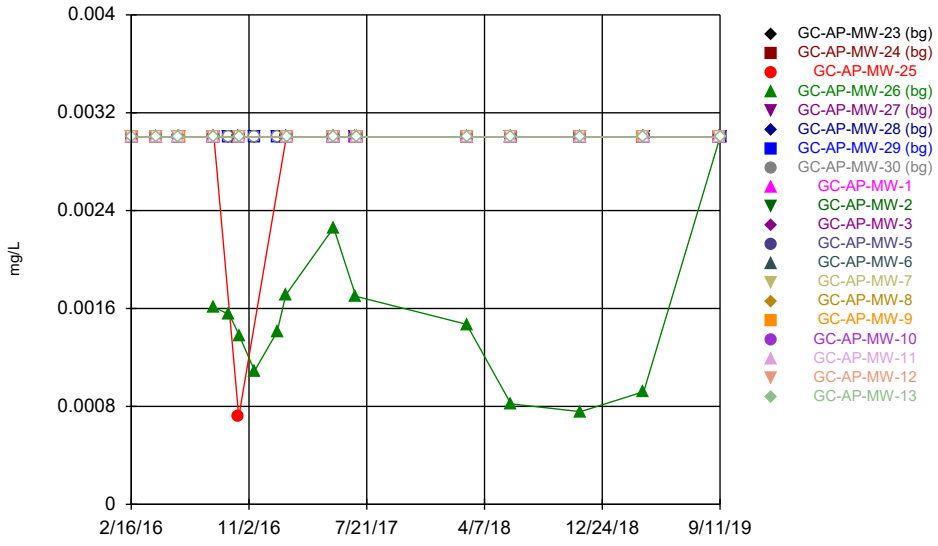
Time Series



Constituent: Barium Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

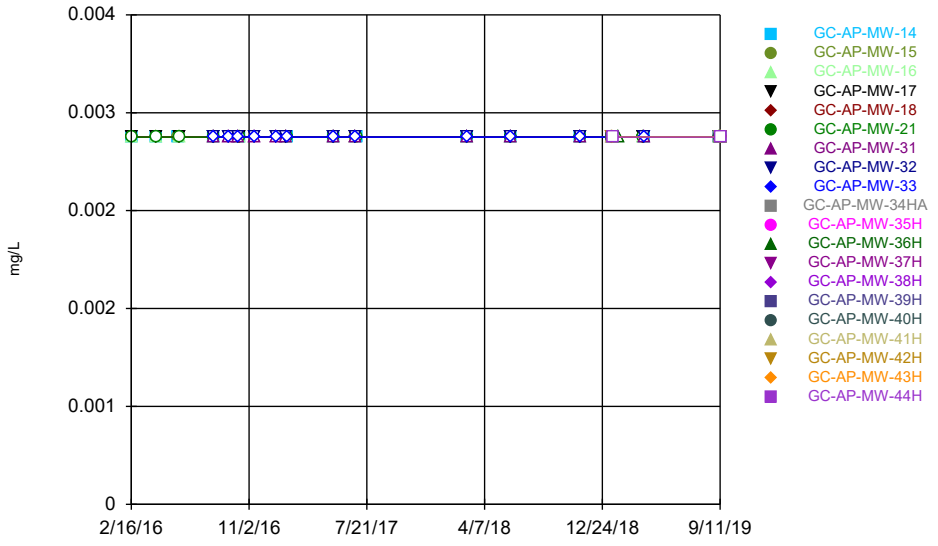
Time Series



Constituent: Beryllium Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

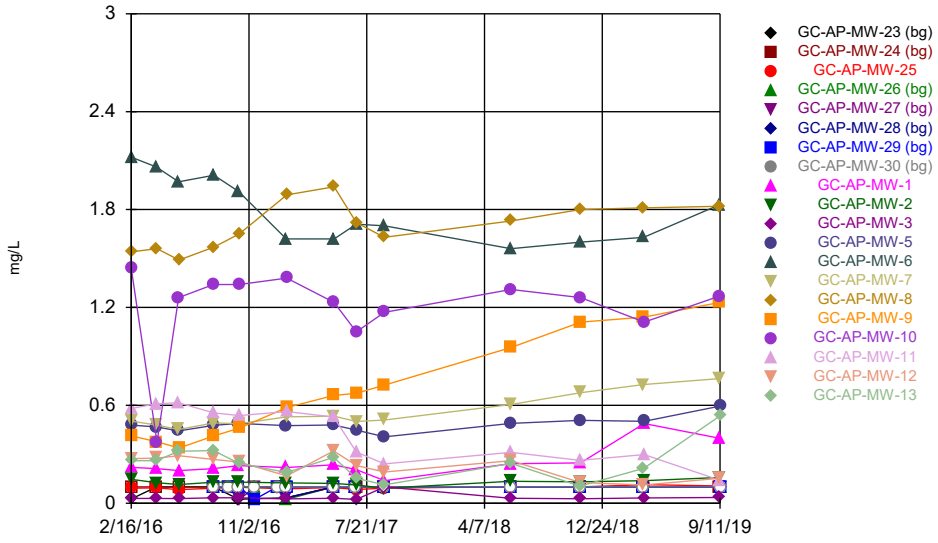
Time Series



Constituent: Beryllium Analysis Run 1/21/2020 1:40 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

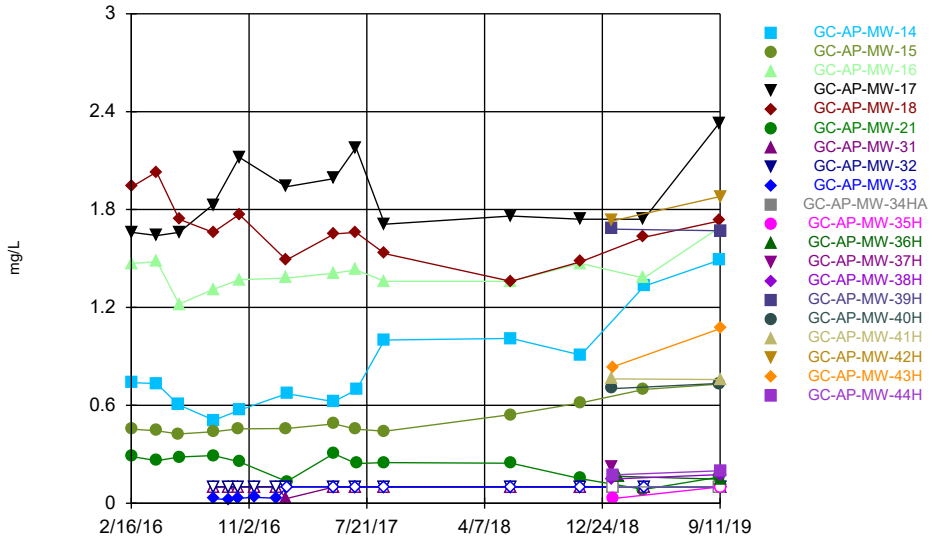
Time Series



Constituent: Boron Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

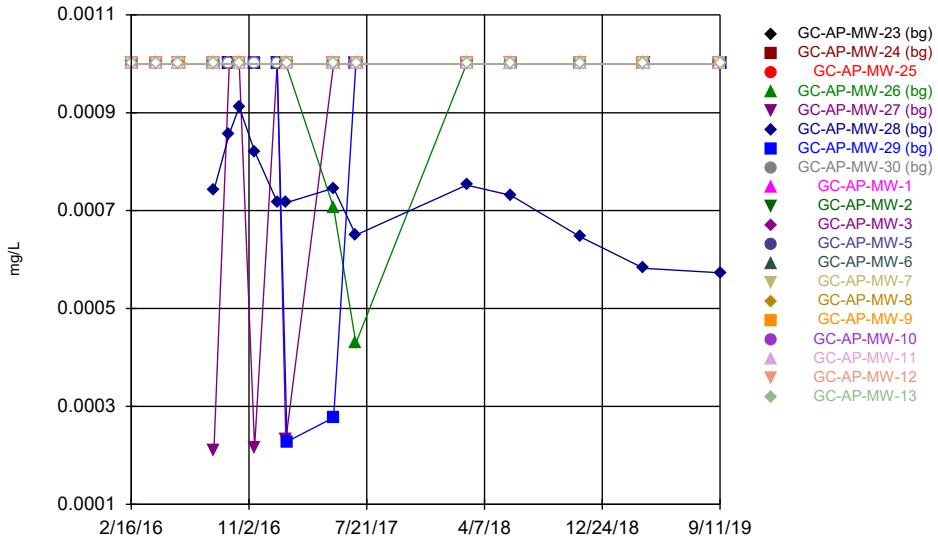
Time Series



Constituent: Boron Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

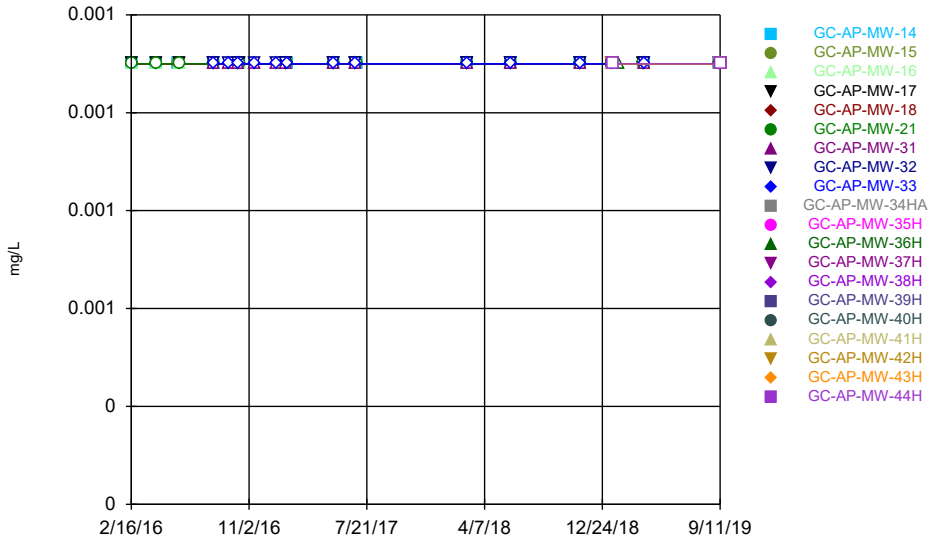
Time Series



Constituent: Cadmium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

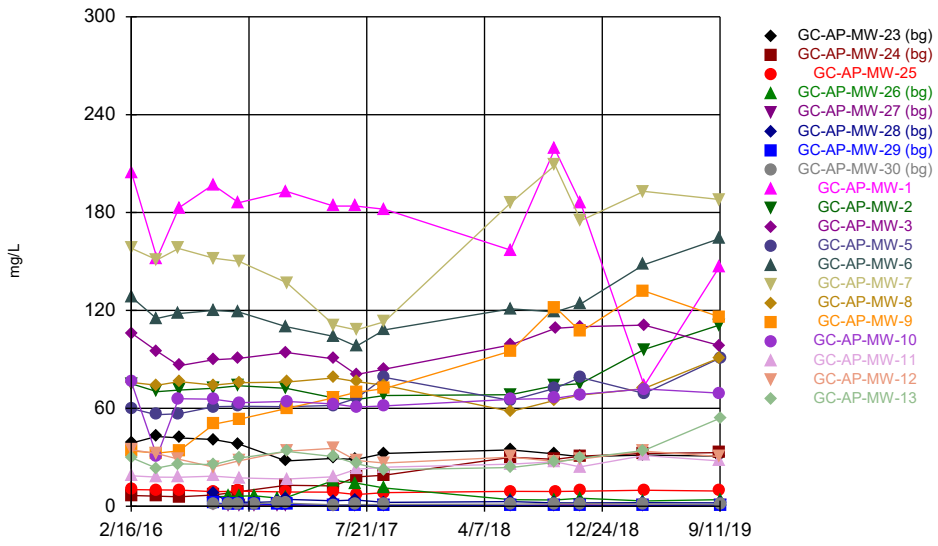
Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

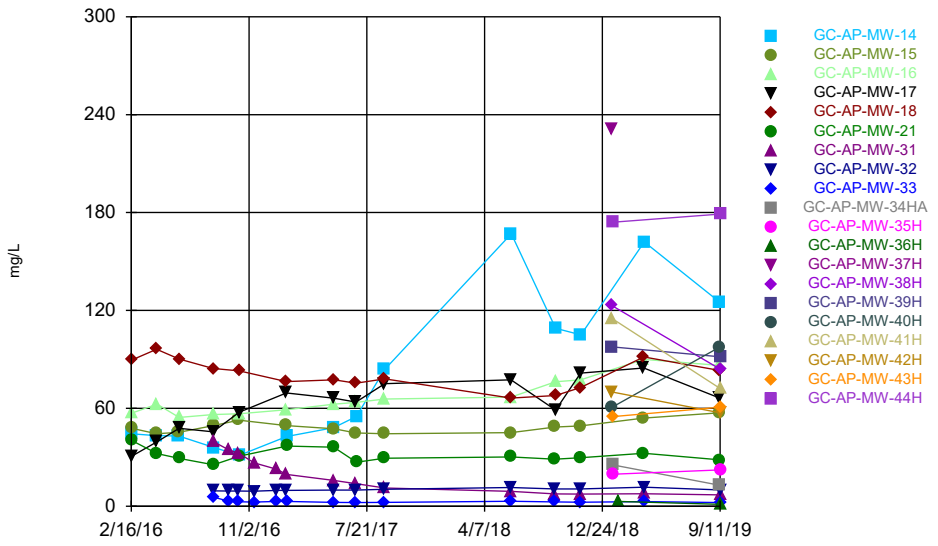
Time Series



Constituent: Calcium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

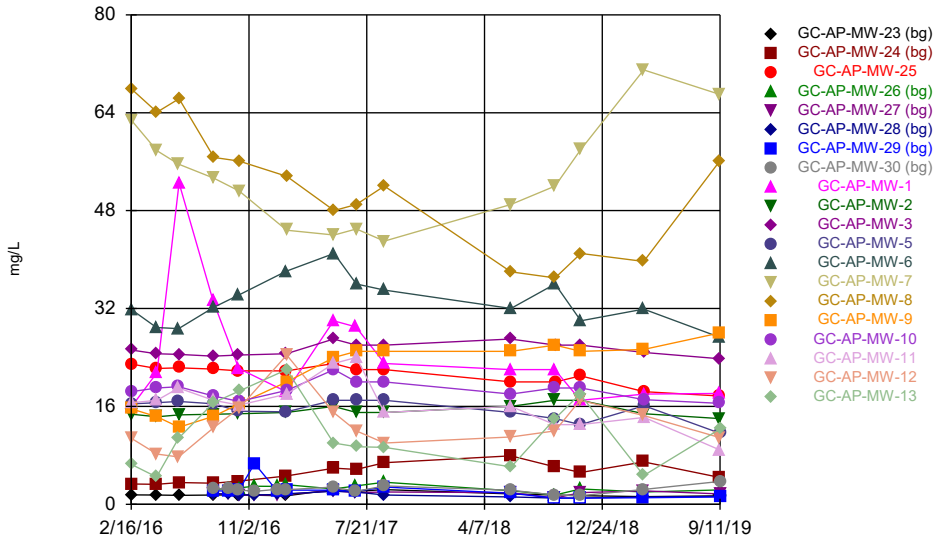
Time Series



Constituent: Calcium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

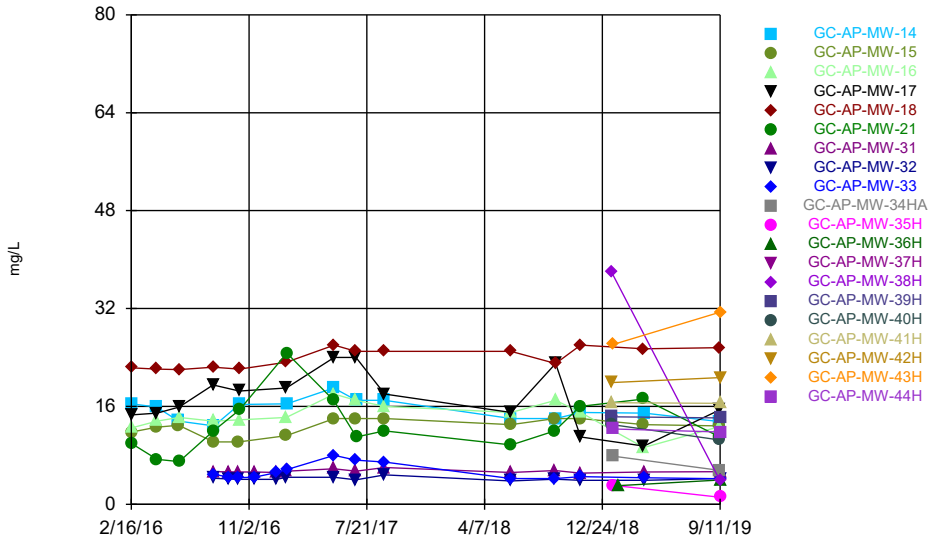
Time Series



Constituent: Chloride Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

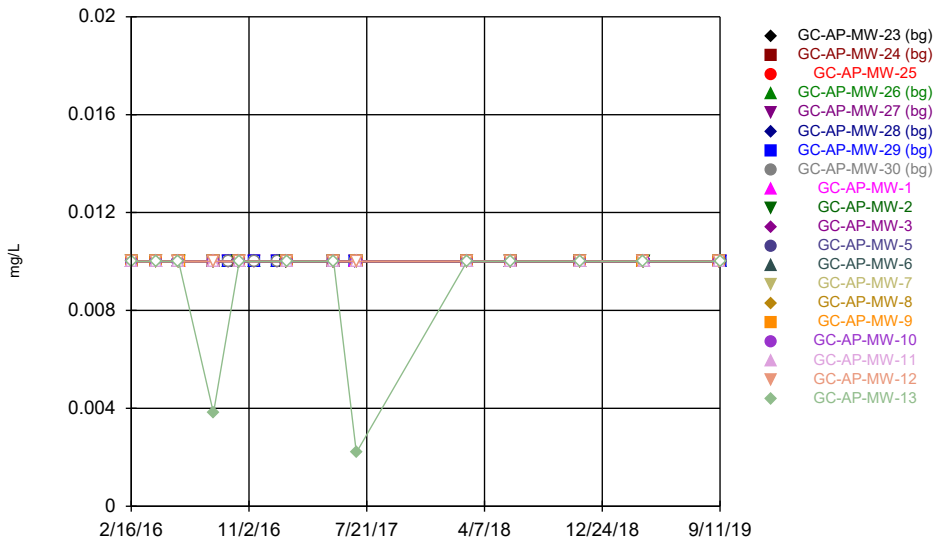
Time Series



Constituent: Chloride Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

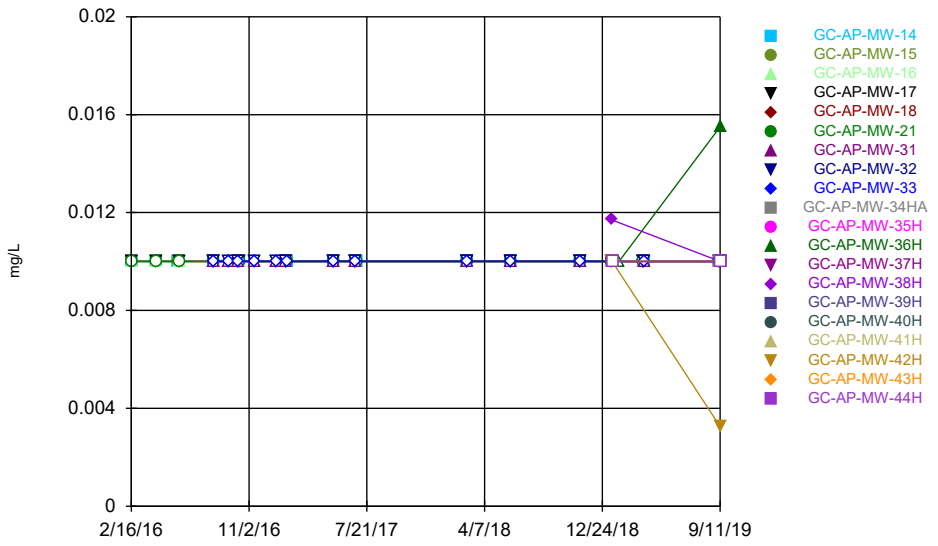
Time Series



Constituent: Chromium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

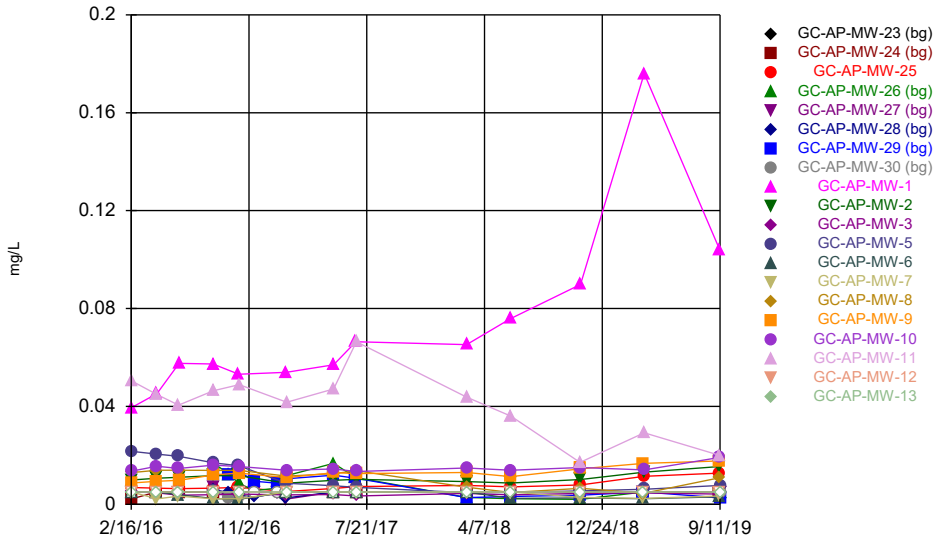
Time Series



Constituent: Chromium Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

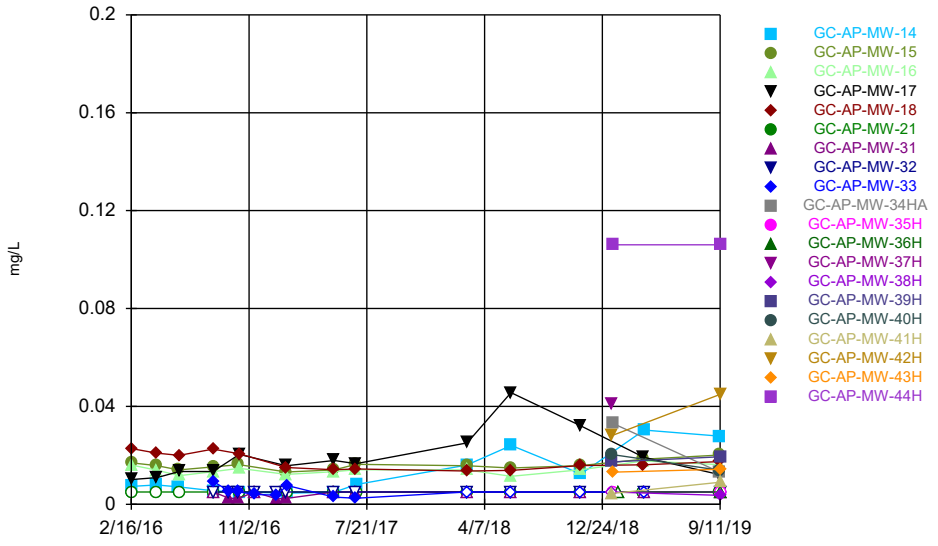
Time Series



Constituent: Cobalt Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

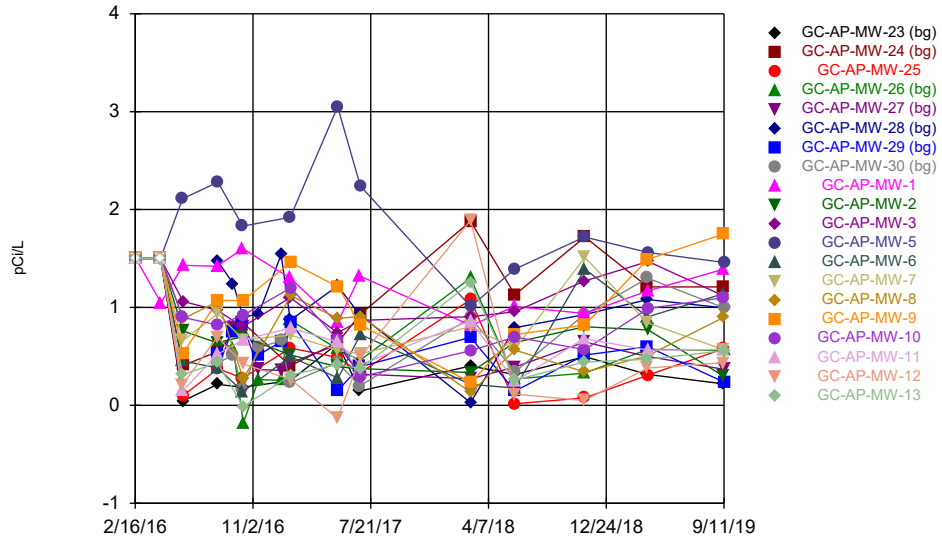
Time Series



Constituent: Cobalt Analysis Run 1/21/2020 1:41 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

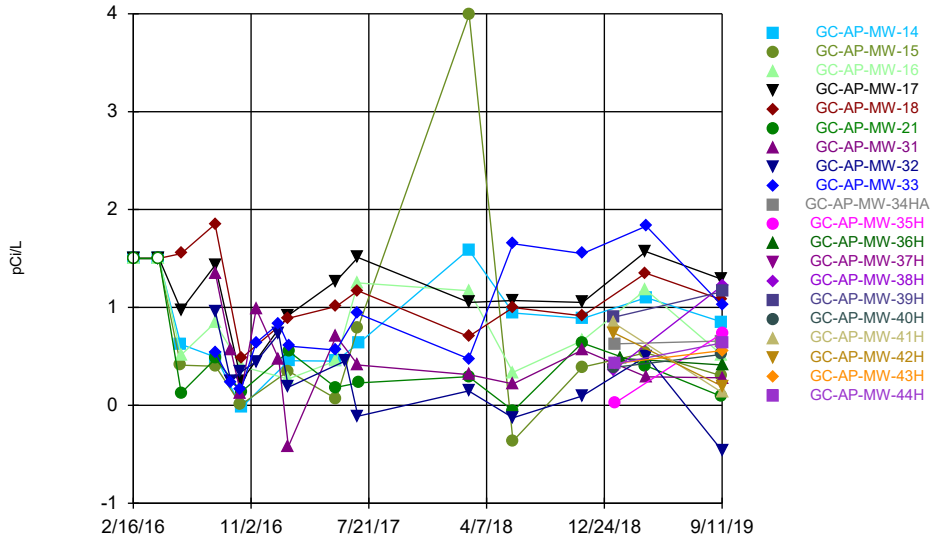
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

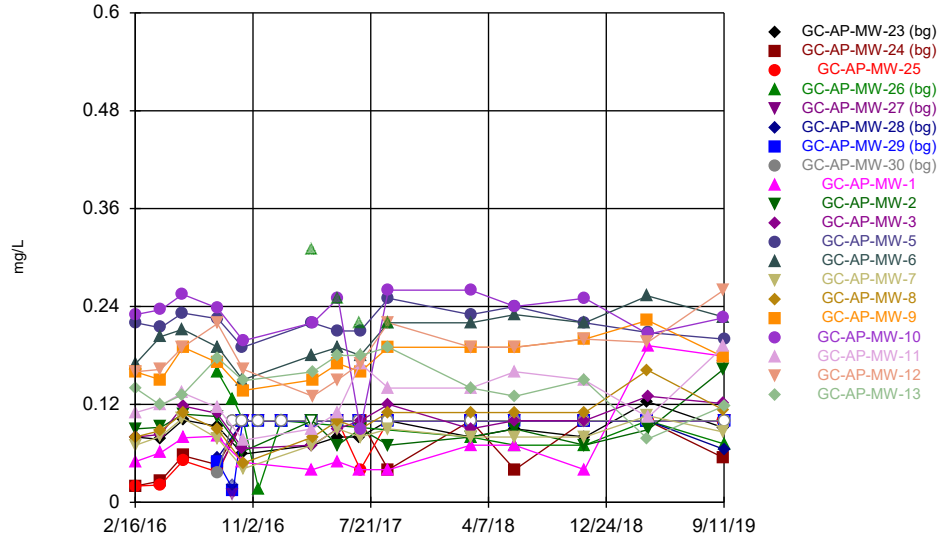
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

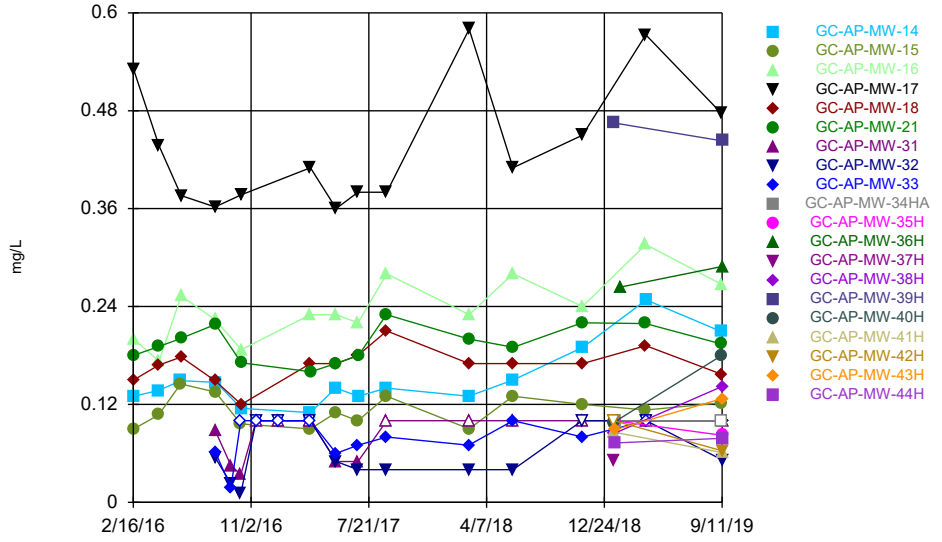
Time Series



Constituent: Fluoride Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

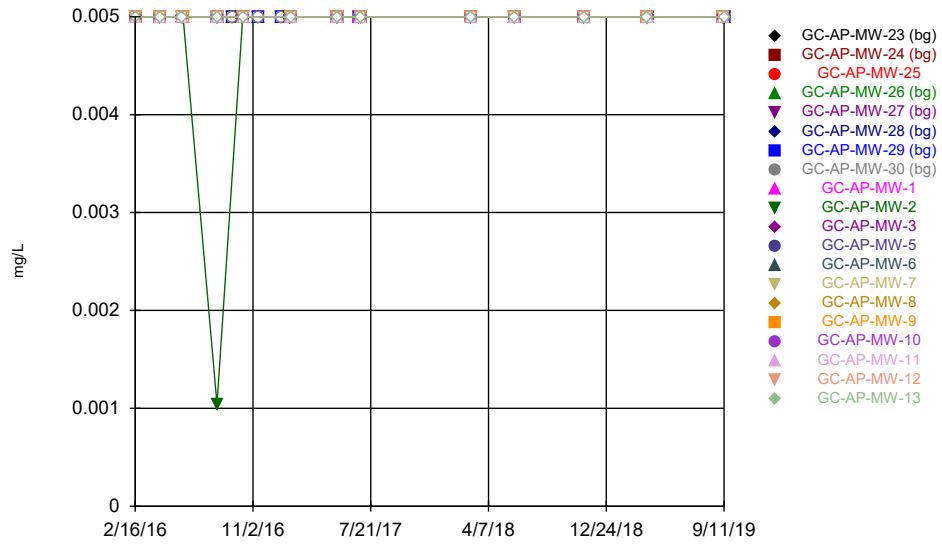
Time Series



Constituent: Fluoride Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

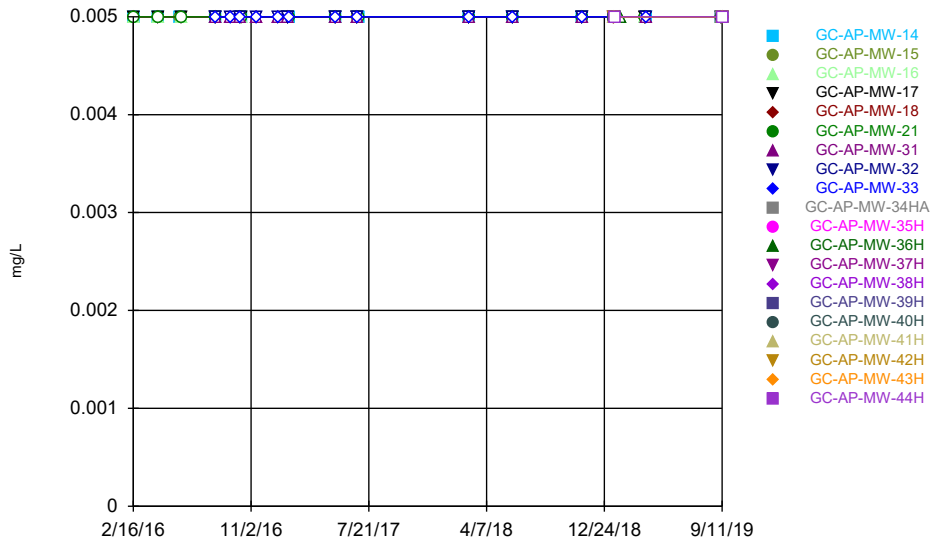
Time Series



Constituent: Lead Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

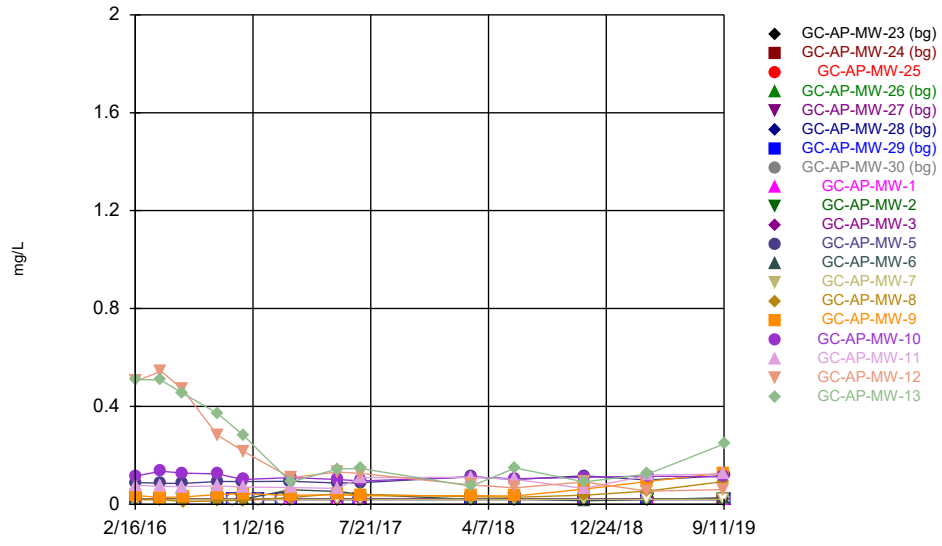
Time Series



Constituent: Lead Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

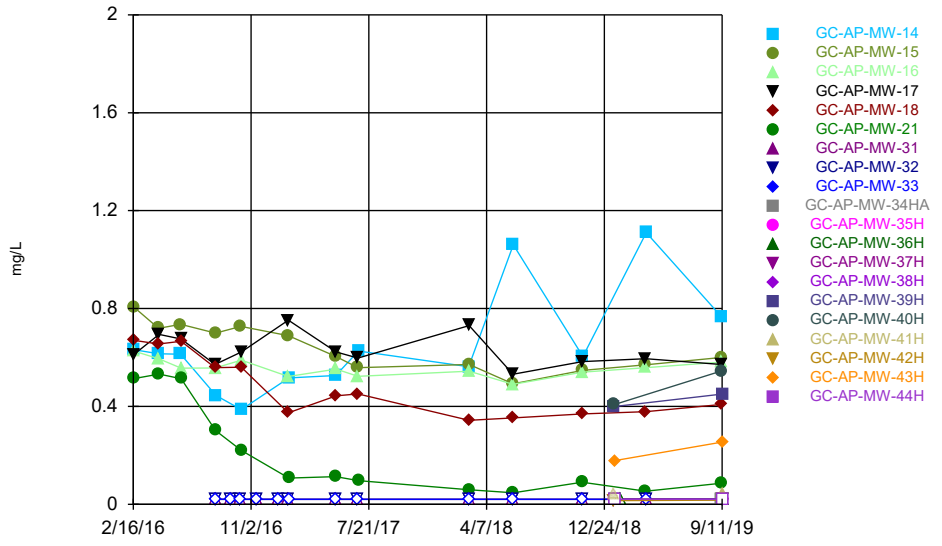
Time Series



Constituent: Lithium Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

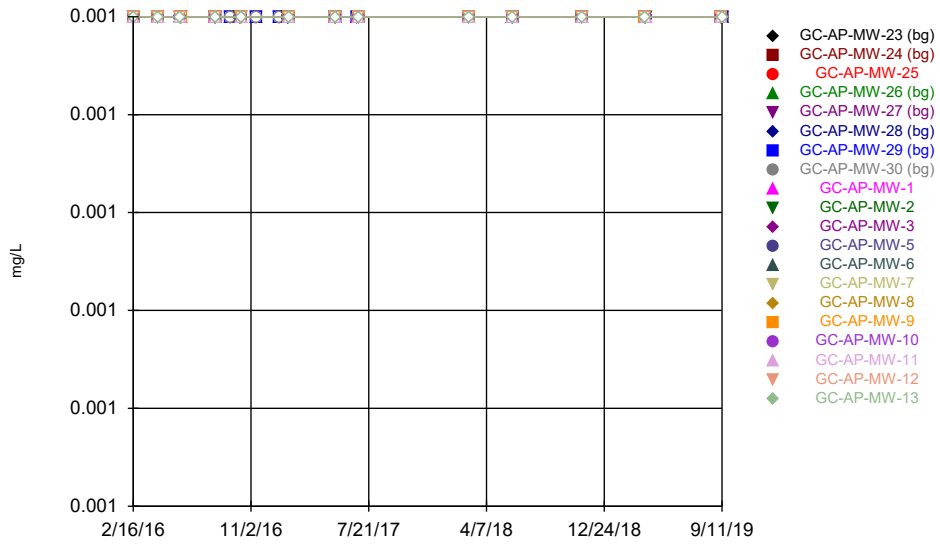
Time Series



Constituent: Lithium Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

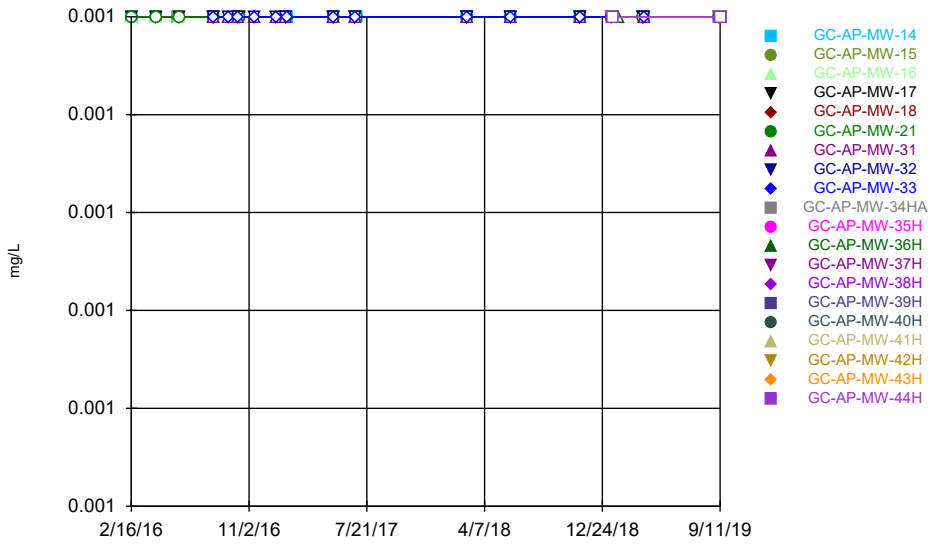
Time Series



Constituent: Mercury Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

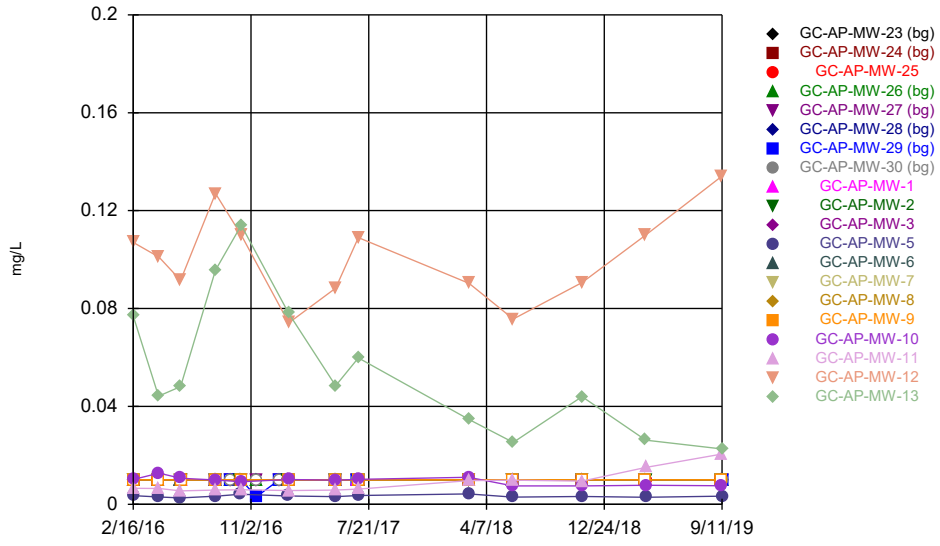
Time Series



Constituent: Mercury Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

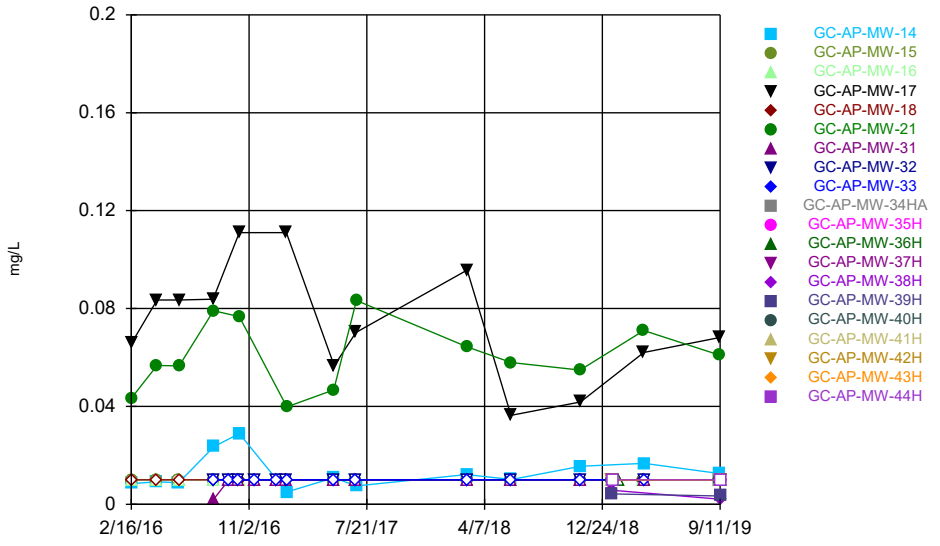
Time Series



Constituent: Molybdenum Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

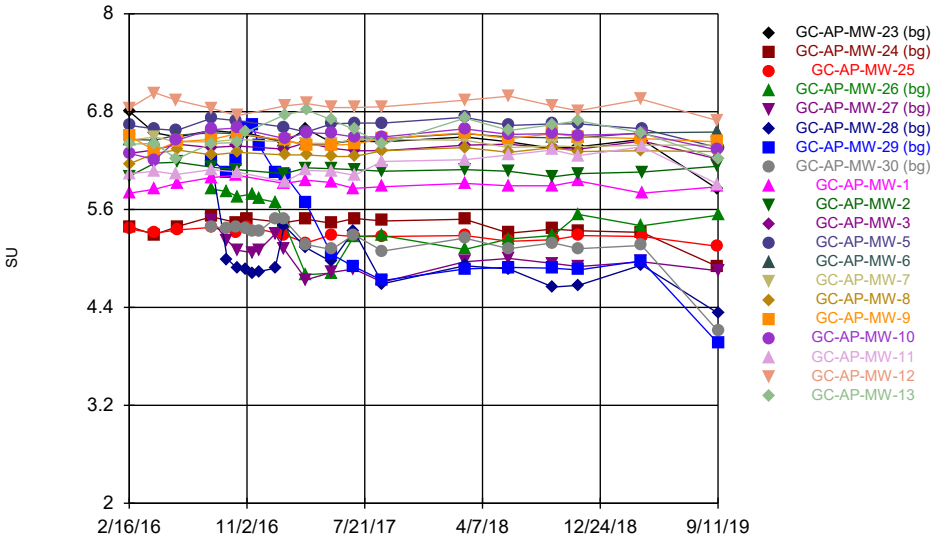
Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

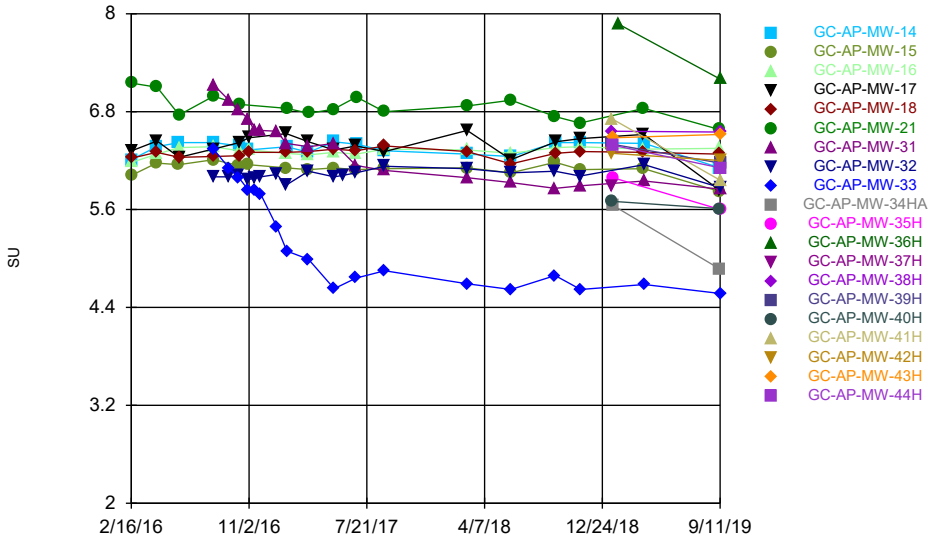
Time Series



Constituent: pH Analysis Run 1/21/2020 1:42 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

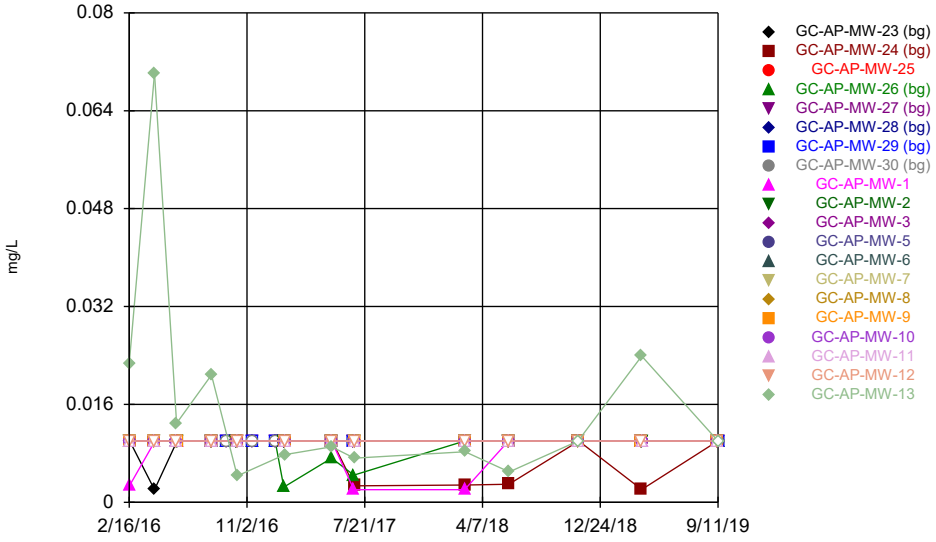
Time Series



Constituent: pH Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

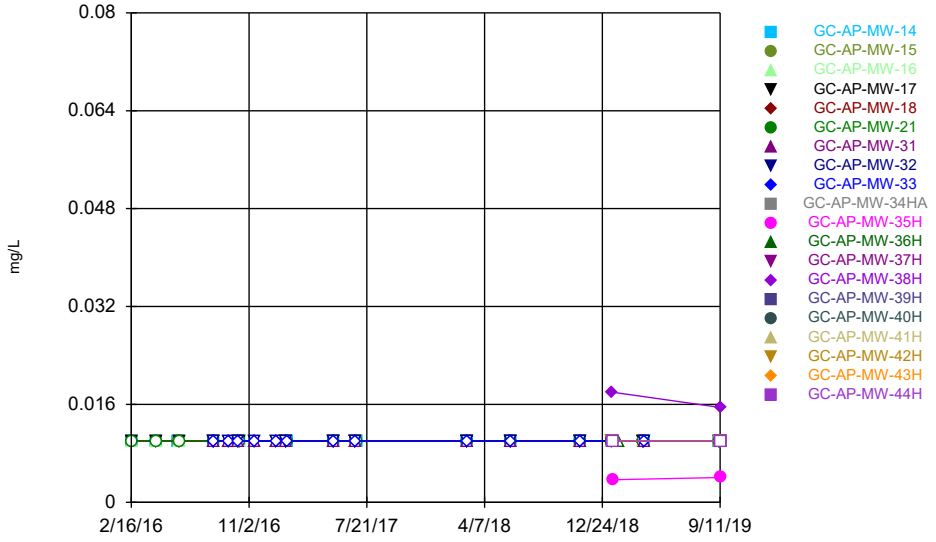
Time Series



Constituent: Selenium Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

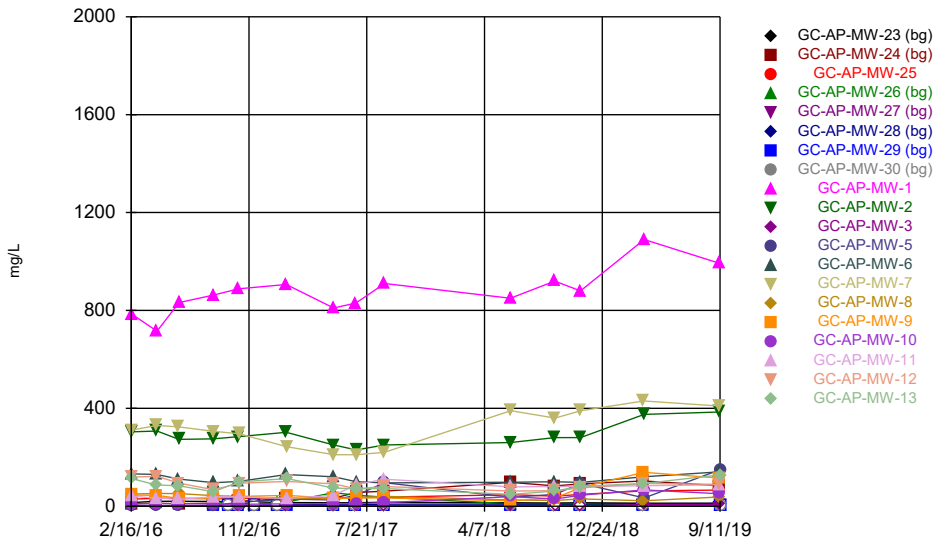
Time Series



Constituent: Selenium Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

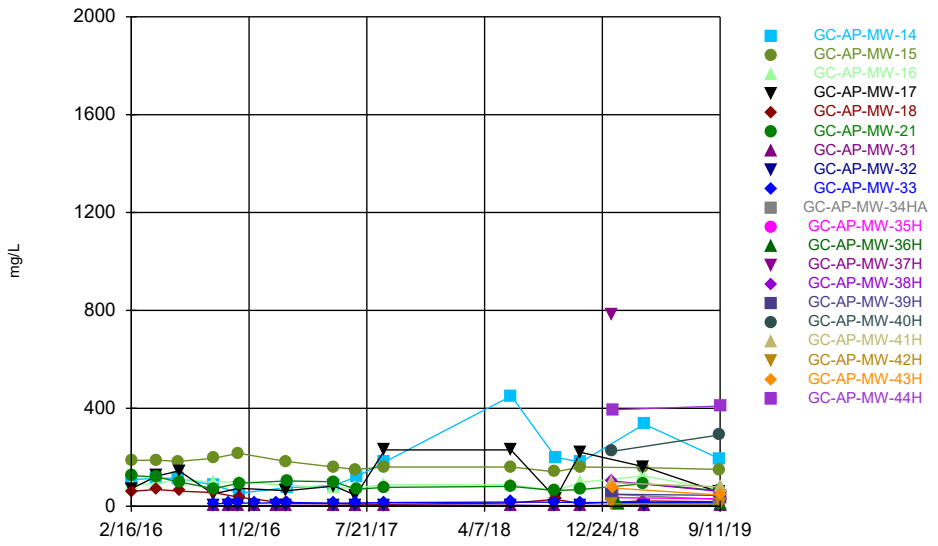
Time Series



Constituent: Sulfate Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

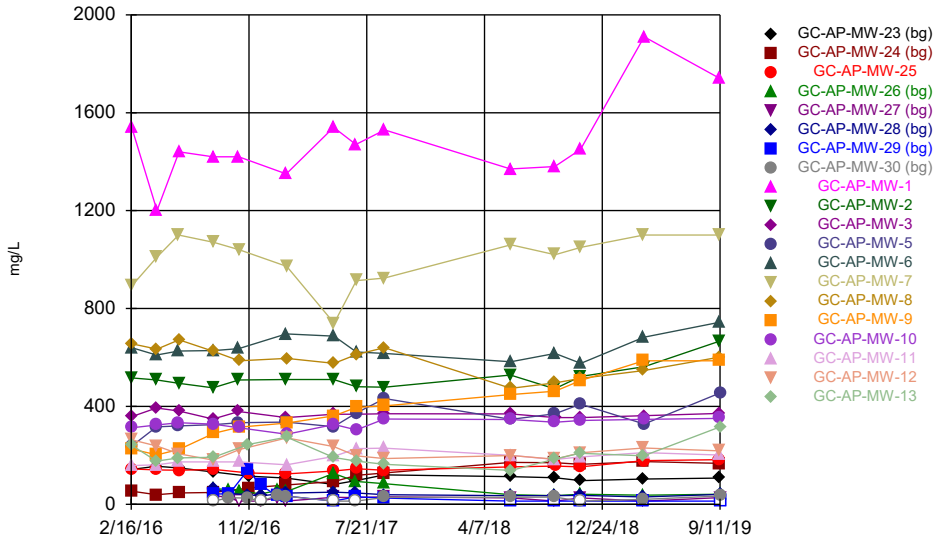
Time Series



Constituent: Sulfate Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

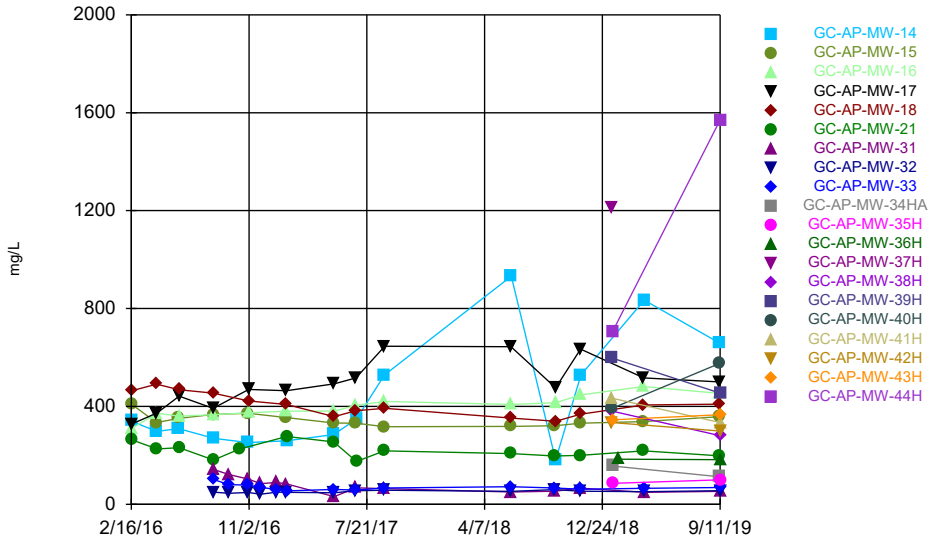
Time Series



Constituent: TDS Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

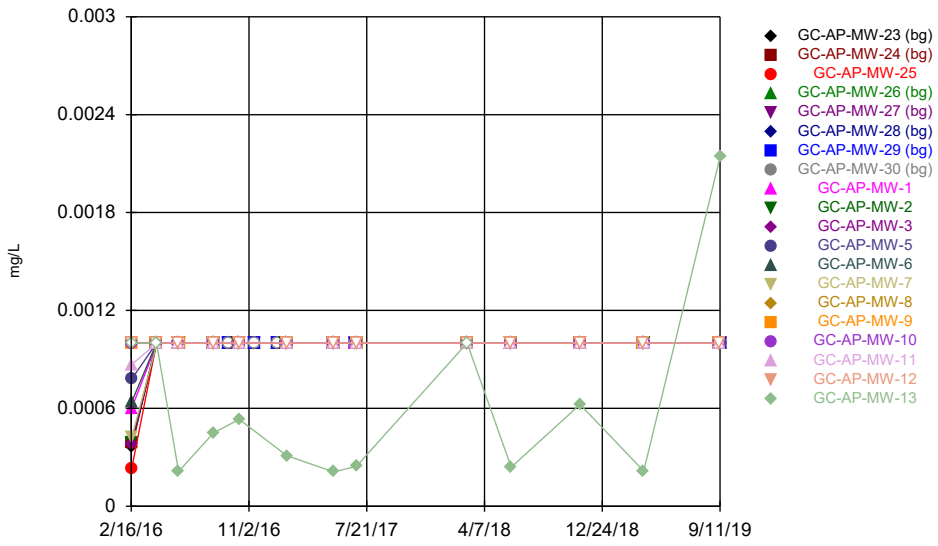
Time Series



Constituent: TDS Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

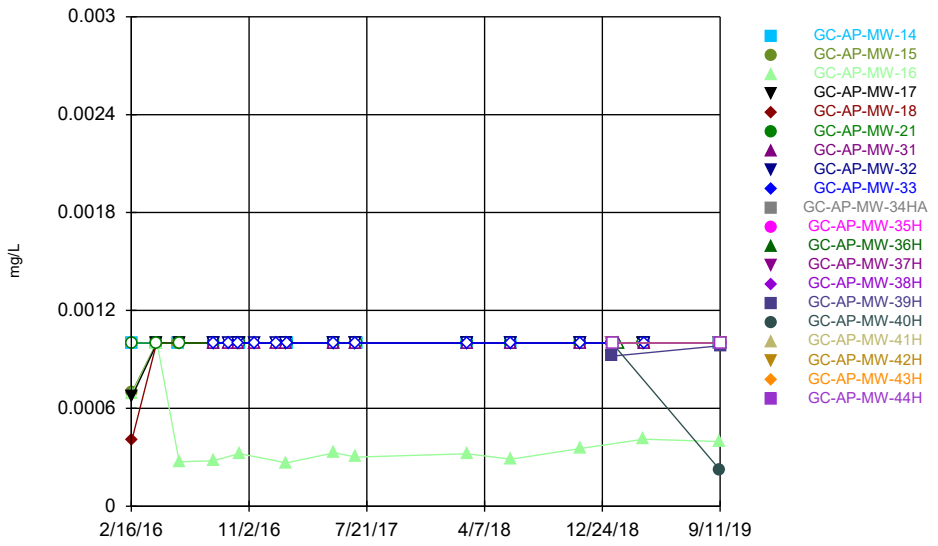
Time Series



Constituent: Thallium Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 1/21/2020 1:43 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

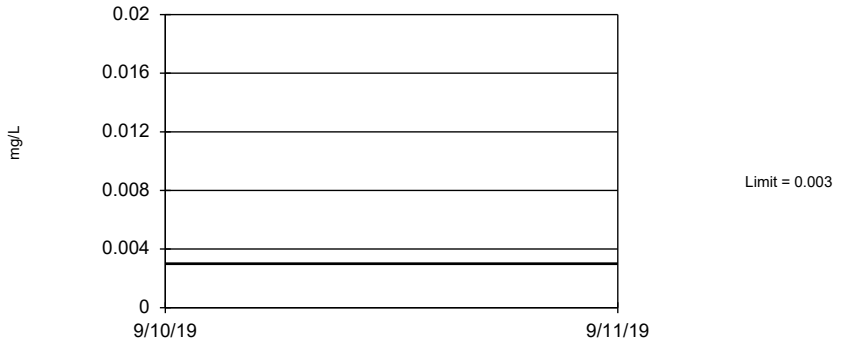
Upper Tolerance Limits - Appendix IV

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 1:58 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 89.01% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Antimony Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 85.71% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Arsenic Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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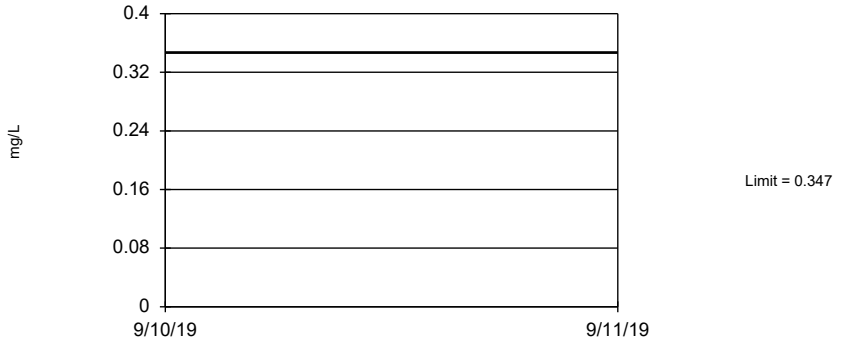
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Barium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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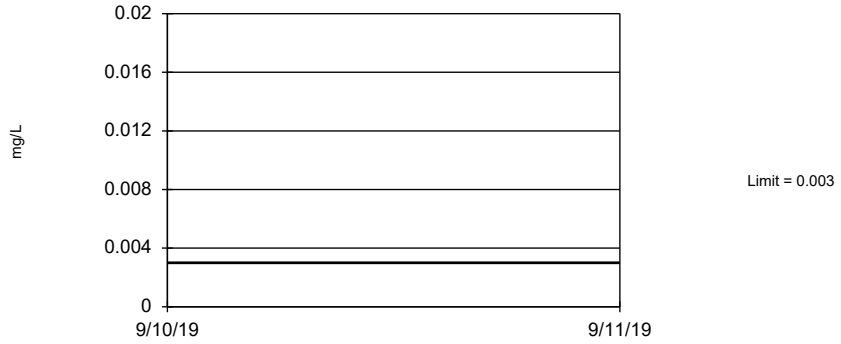
Tolerance Limit

Interwell Non-parametric

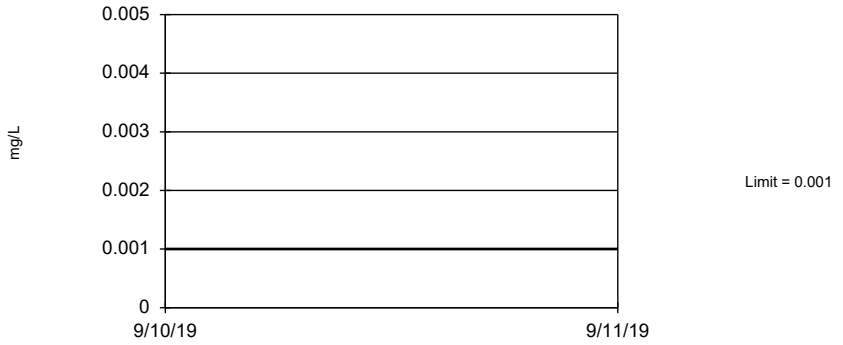


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 86.81% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Beryllium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 78.02% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cadmium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Chromium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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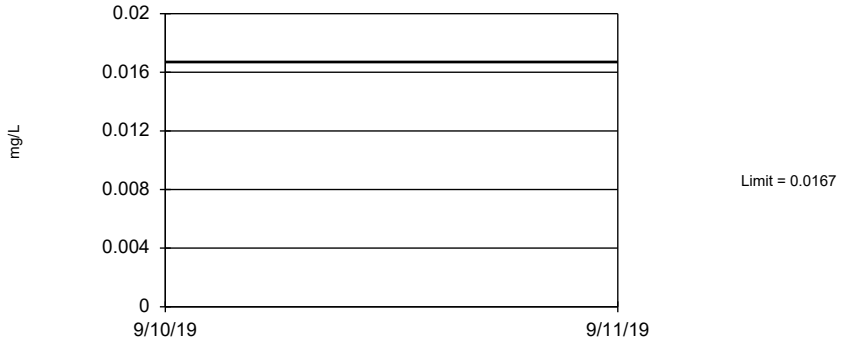
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 60.44% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cobalt Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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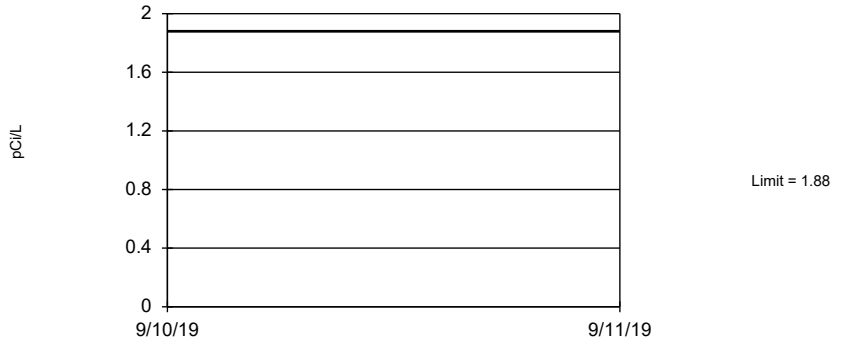
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 4.396% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 92 background values. 61.96% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008924.

Constituent: Fluoride Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lead Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

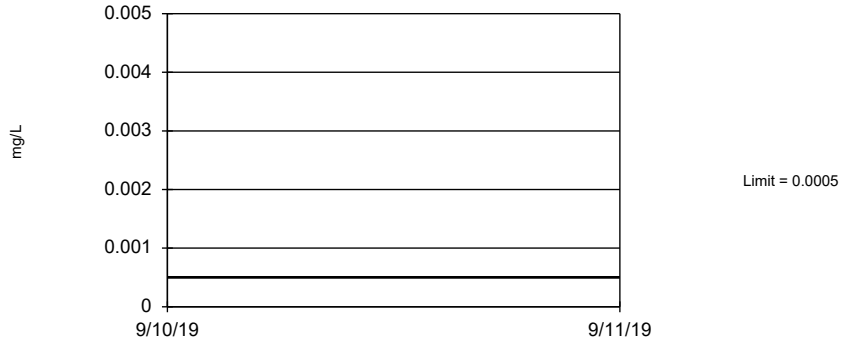
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lithium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Mercury Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 98.9% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Molybdenum Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 91.21% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

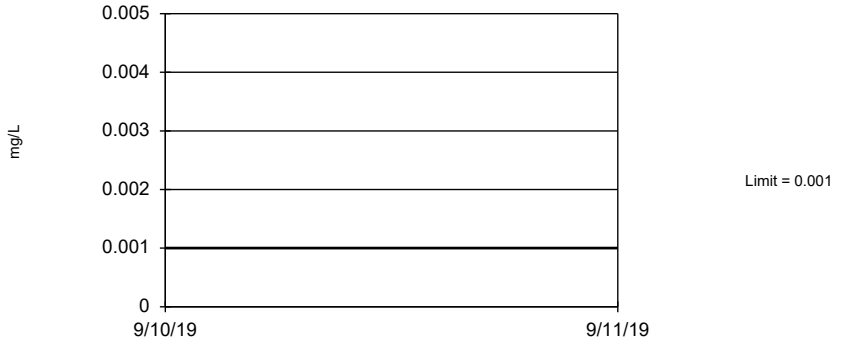
Constituent: Selenium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 97.8% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Thallium Analysis Run 1/21/2020 1:57 PM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Confidence Intervals - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02091**	**0.01708**	**0.01**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4252**	**0.3669**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0152**	**0.0123**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-14**	**0.02971**	**0.01963**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0648**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.4229**	**0.2594**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.1085**	**0.06174**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-1**	**0.08924**	**0.04987**	**0.0167**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05069**	**0.0312**	**0.0167**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.116**	**0.0862**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-10**	**0.1206**	**0.1039**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.119**	**0.0646**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.3028**	**0.08159**	**0.04**	**Yes**	**13**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3491**	**0.1218**	**0.04**	**Yes**	**13**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7934**	**0.4965**	**0.04**	**Yes**	**13**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7096**	**0.5697**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5827**	**0.5299**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6766**	**0.5781**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.5654**	**0.3848**	**0.04**	**Yes**	**13**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.2807**	**0.0748**	**0.04**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-25	0.003	0.00111	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-1	0.003	0.000799	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.003	0.00084	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.003	0.000906	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.003	0.000728	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.003	0.00141	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.003	0.000839	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.003	0.000833	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.003	0.000847	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.003	0.00128	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.003	0.000896	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.003	0.000683	0.006	No	13	38.46	No	0.01	NP (normality)
Antimony (mg/L)	GC-AP-MW-13	0.003138	0.001561	0.006	No	13	7.692	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.003	0.00106	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.003	0.00111	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.003	0.000935	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.003	0.000997	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.003	0.000984	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.003	0.00107	0.006	No	13	84.62	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.003	0.000928	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.003	0.00091	0.006	No	13	92.31	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.003	0.00112	0.006	No	13	92.31	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-25	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02091**	**0.01708**	**0.01**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-2	0.01472	0.009733	0.01	No	13	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.00788	0.006906	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4252**	**0.3669**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-6	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.009232	0.006565	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0152**	**0.0123**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-11	0.007244	0.005121	0.01	No	13	0	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-13	0.01021	0.003756	0.01	No	13	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-14**	**0.02971**	**0.01963**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-15	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0648**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.4229**	**0.2594**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.1085**	**0.06174**	**0.01**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-21	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.005	0.00121	0.01	No	13	76.92	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.005	0.005	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.005	0.00122	0.01	No	13	92.31	No	0.01	NP (NDs)
Barium (mg/L)	GC-AP-MW-25	0.09536	0.08604	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.0401	0.03244	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03231	0.02864	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.105	0.09508	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.4489	0.3126	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.05806	0.04352	2	No	13	0	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.083	0.06796	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1086	0.08991	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1394	0.07151	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.1797	0.1592	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.1064	0.07394	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02273	0.01901	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.114	0.0878	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	GC-AP-MW-14	0.07166	0.04593	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.02879	0.02333	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.05713	0.03948	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.2037	0.08409	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1307	0.1133	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.04699	0.03378	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.0242	0.02026	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01361	0.0123	2	No	13	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.07955	0.04172	2	No	13	0	x^2	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.003	0.000715	0.004	No	13	92.31	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-1	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GC-AP-MW-2	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-3	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-5	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-6	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-7	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-8	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-9	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-10	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-11	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-12	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-13	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-14	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-15	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-16	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-17	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-18	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-21	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-31	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-32	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-33	0.003	0.003	0.004	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-1	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-3	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-5	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-7	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-10	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-12	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-14	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-16	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-17	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-18	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-31	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-32	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-33	0.001	0.001	0.005	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-11	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.01	0.00381	0.1	No	13	84.62	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-21	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-25	0.0114	0.00637	0.0167	No	13	0	No	0.01	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-1**	**0.08924**	**0.04987**	**0.0167**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-2	0.01217	0.009365	0.0167	No	13	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004507	0.00381	0.0167	No	13	0	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-5	0.0148	0.006244	0.0167	No	13	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.005	0.00223	0.0167	No	13	46.15	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-7	0.005	0.00218	0.0167	No	13	46.15	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-8	0.0139	0.00478	0.0167	No	13	0	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-9	0.01444	0.01048	0.0167	No	13	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.016	0.0135	0.0167	No	13	0	No	0.01	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05069**	**0.0312**	**0.0167**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-12	0.005	0.005	0.0167	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-13	0.005	0.005	0.0167	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.01634	0.005906	0.0167	No	13	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01726	0.01451	0.0167	No	13	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01539	0.0127	0.0167	No	13	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.02553	0.01256	0.0167	No	13	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.02	0.01491	0.0167	No	13	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.005	0.005	0.0167	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-31	0.005	0.00239	0.0167	No	13	69.23	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.005	0.005	0.0167	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.006372	0.003698	0.0167	No	13	38.46	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.08	0.0751	5	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.408	1.021	5	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.803	0.334	5	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	2.027	0.7365	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.658	1.543	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.848	0.1843	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.5	0.56	5	No	13	15.38	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.885	0.3332	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	2.1	0.6661	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.919	0.4651	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	1.787	0.2078	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.5	0.048	5	No	13	15.38	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	1.25	0.258	5	No	13	15.38	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.932	0.3558	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	1.5	0.00389	5	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.893	0.33	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.51	0.918	5	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	2.114	0.7691	5	No	13	15.38	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.637	0.0889	5	No	13	15.38	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7653	0.1332	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	0.5396	-0.01893	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	1.245	0.4526	5	No	13	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.051	0.037	4	No	14	64.29	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-1	0.081	0.04	4	No	14	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-2	0.1049	0.06912	4	No	14	7.143	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1123	0.08439	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-5	0.2304	0.208	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2229	0.1835	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.0921	0.07004	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.1179	0.08196	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-9	0.1921	0.1592	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2506	0.2101	4	No	14	0	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1518	0.1068	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2094	0.1621	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1676	0.1242	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.1736	0.1261	4	No	14	0	ln(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1256	0.09982	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2654	0.2103	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.53	0.376	4	No	14	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-18	0.183	0.1533	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2097	0.1794	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.087	0.045	4	No	14	64.29	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.023	4	No	14	35.71	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1197	0.06666	4	No	14	42.86	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-1	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.005	0.00104	0.015	No	13	92.31	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-5	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-6	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GC-AP-MW-7	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-8	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-10	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-11	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-12	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-13	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-14	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-15	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-16	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-17	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-18	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-21	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.005	0.005	0.015	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-25	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.02	0.0194	0.04	No	13	92.31	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-2	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-3	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	**GC-AP-MW-5**	**0.116**	**0.0862**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	GC-AP-MW-6	0.0519	0.0192	0.04	No	13	38.46	No	0.01	NP (normality)
Lithium (mg/L)	GC-AP-MW-7	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-8	0.0537	0.0143	0.04	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Lithium (mg/L)	GC-AP-MW-9	0.0931	0.0296	0.04	No	13	0	No	0.01	NP (normality)
Lithium (mg/L)	**GC-AP-MW-10**	**0.1206**	**0.1039**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.119**	**0.0646**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.3028**	**0.08159**	**0.04**	**Yes**	**13**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3491**	**0.1218**	**0.04**	**Yes**	**13**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7934**	**0.4965**	**0.04**	**Yes**	**13**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7096**	**0.5697**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5827**	**0.5299**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6766**	**0.5781**	**0.04**	**Yes**	**13**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.5654**	**0.3848**	**0.04**	**Yes**	**13**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.2807**	**0.0748**	**0.04**	**Yes**	**13**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-31	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-32	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-33	0.02	0.02	0.04	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-25	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-2	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-3	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-7	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-11	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-12	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-13	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-16	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-18	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-21	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-31	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-32	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-33	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003642	0.002958	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)

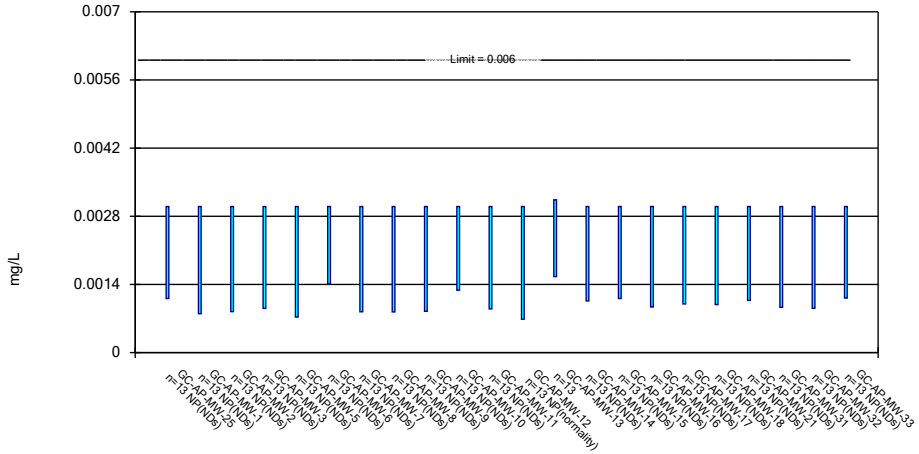
Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 1/21/2020, 2:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.01071	0.008363	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.0151	0.00556	0.1	No	13	0	No	0.01	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-12	0.114	0.08731	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.07631	0.0341	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01803	0.007985	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.09188	0.05727	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.071	0.0507	0.1	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-31	0.01	0.00201	0.1	No	13	92.31	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-25	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00277	0.05	No	13	76.92	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-2	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-5	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-6	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-7	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-8	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-9	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-10	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-11	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-12	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.0239	0.00496	0.05	No	13	15.38	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GC-AP-MW-14	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-15	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-16	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-17	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-18	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-21	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-31	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.01	0.01	0.05	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.001	0.000232	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.001	0.000601	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.001	0.000388	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.001	0.00038	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.001	0.000779	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.001	0.000639	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.001	0.00042	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-8	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-9	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-10	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.001	0.000869	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-12	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.001	0.000212	0.002	No	13	23.08	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	GC-AP-MW-14	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-15	0.001	0.000697	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.000687	0.000272	0.002	No	13	7.692	No	0.01	NP (normality)
Thallium (mg/L)	GC-AP-MW-17	0.001	0.00067	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.001	0.000404	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-21	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-31	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-32	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-33	0.001	0.001	0.002	No	13	100	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

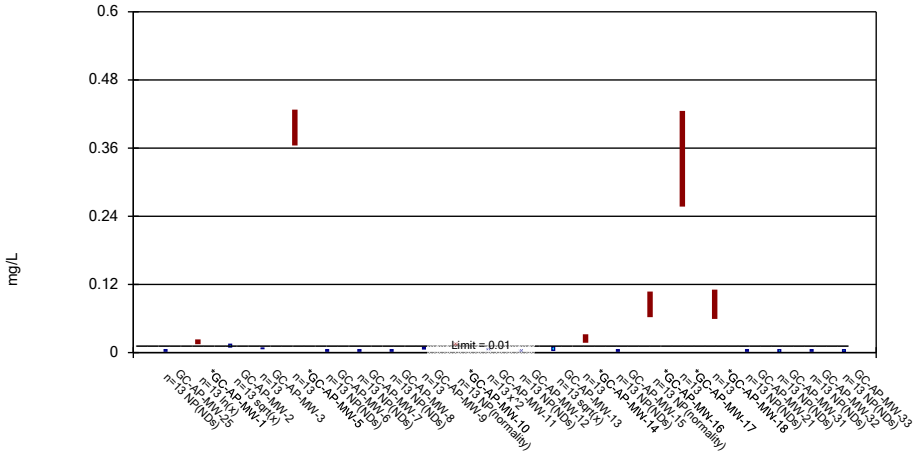
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 1/21/2020 1:59 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

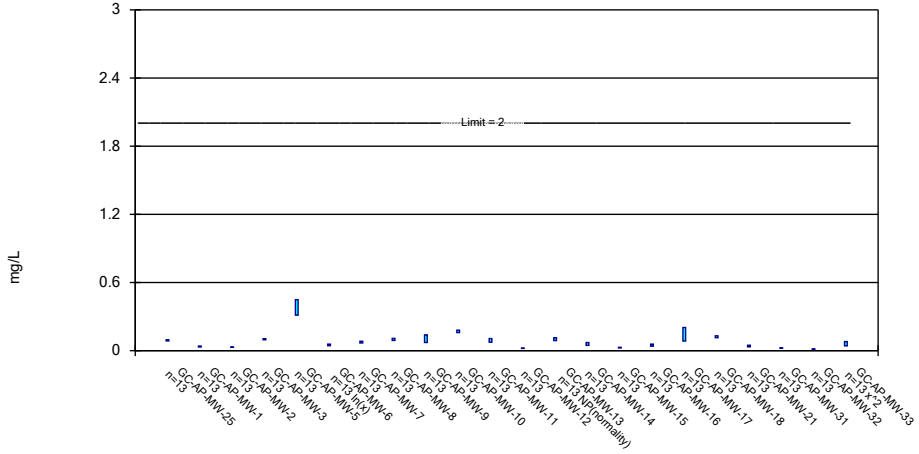
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/21/2020 1:59 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

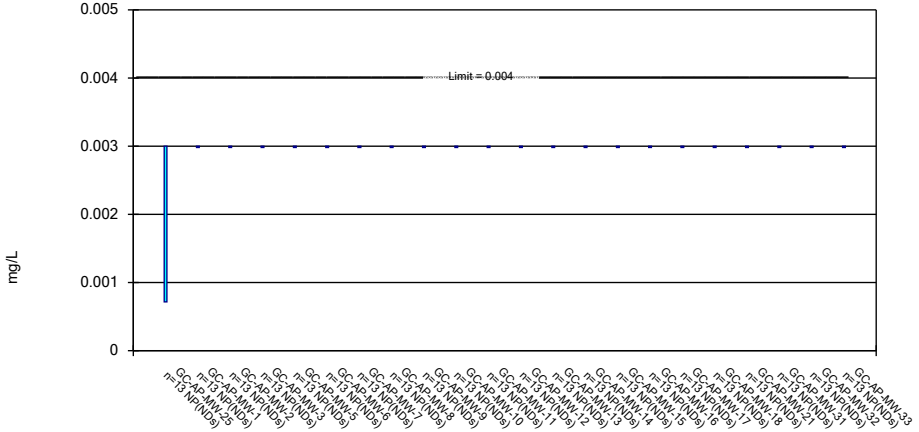
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

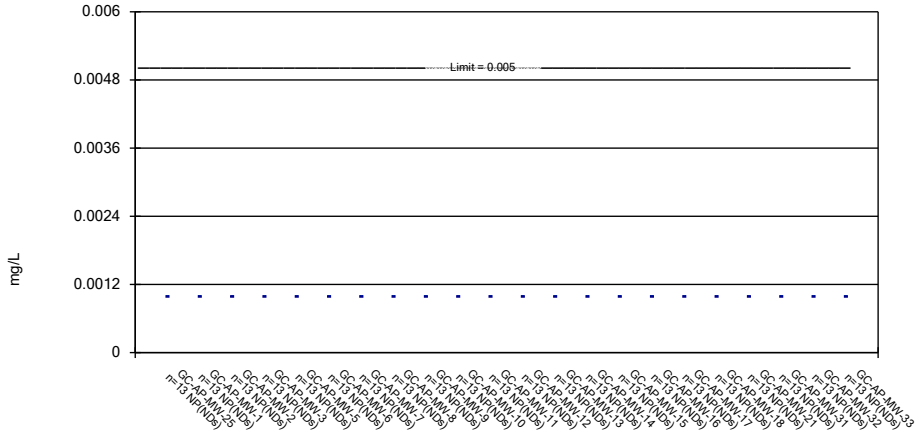
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

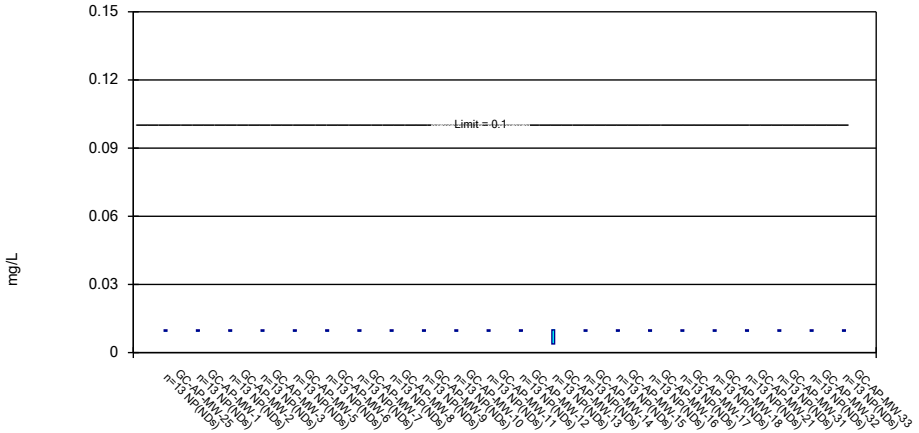
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

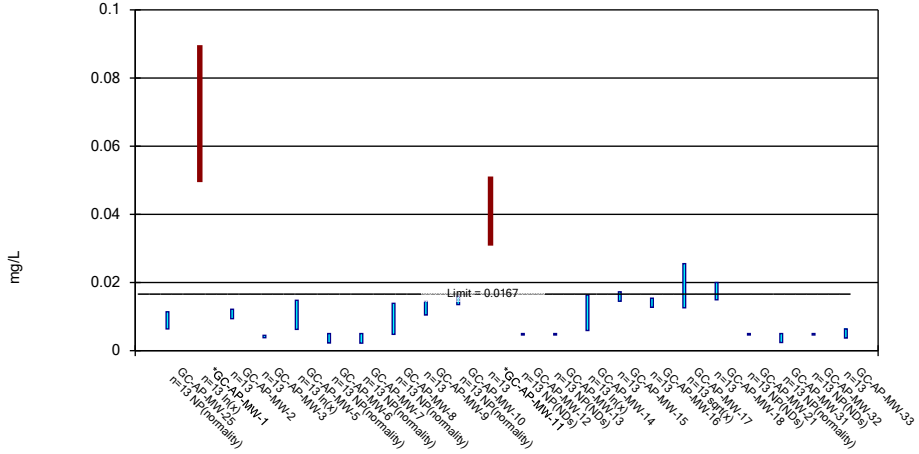
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

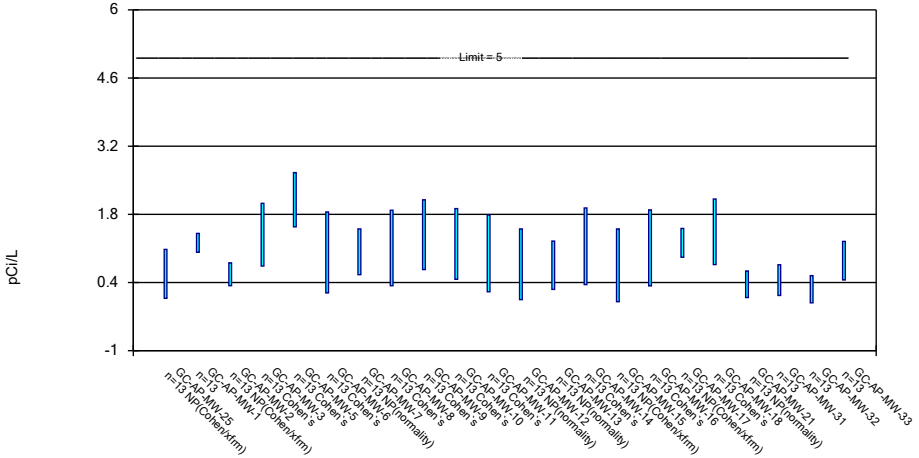
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

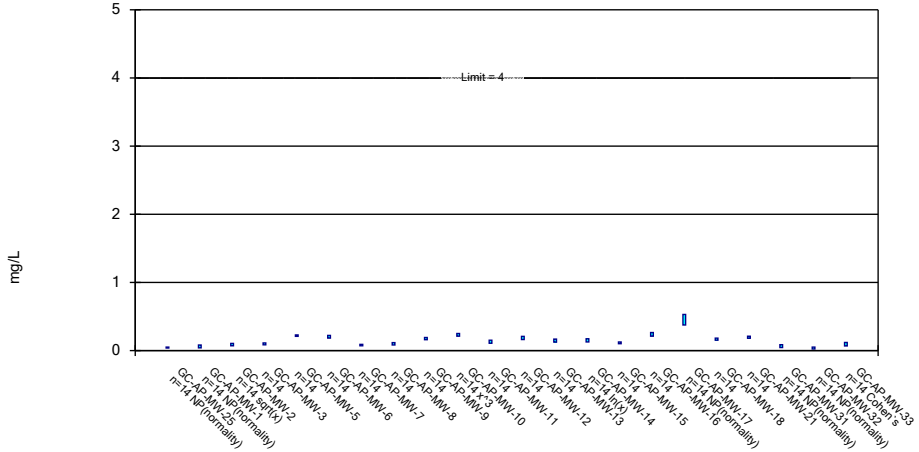
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals -
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

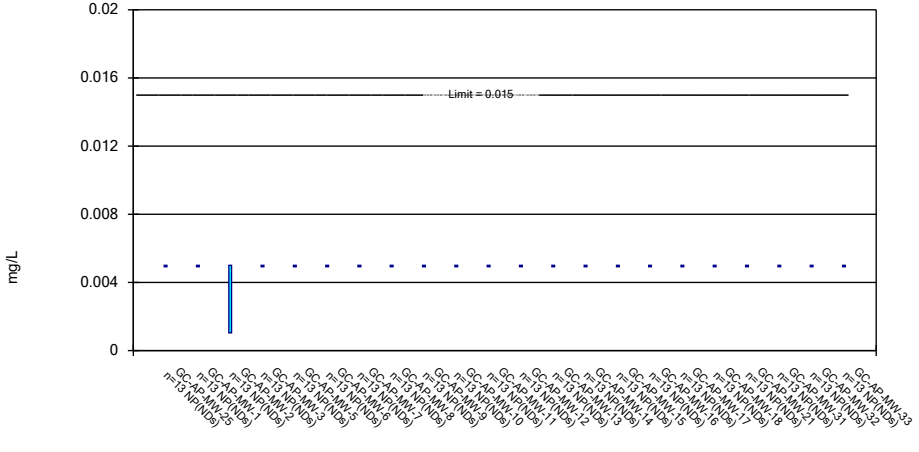
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

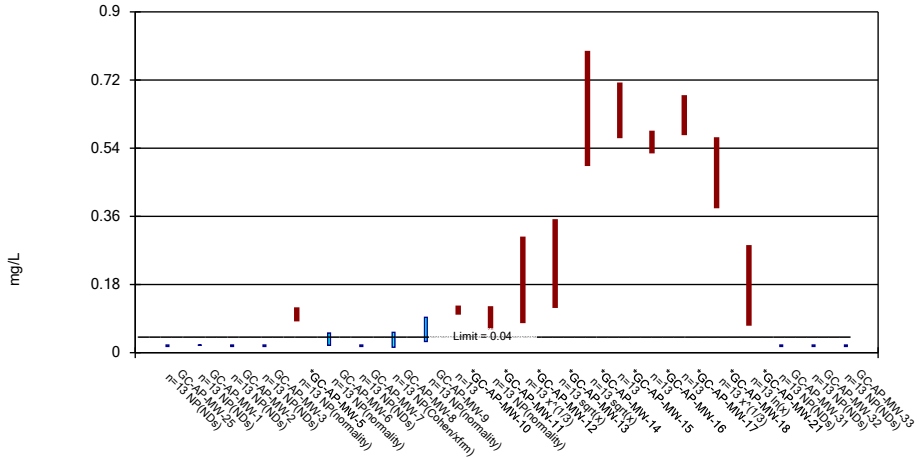
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

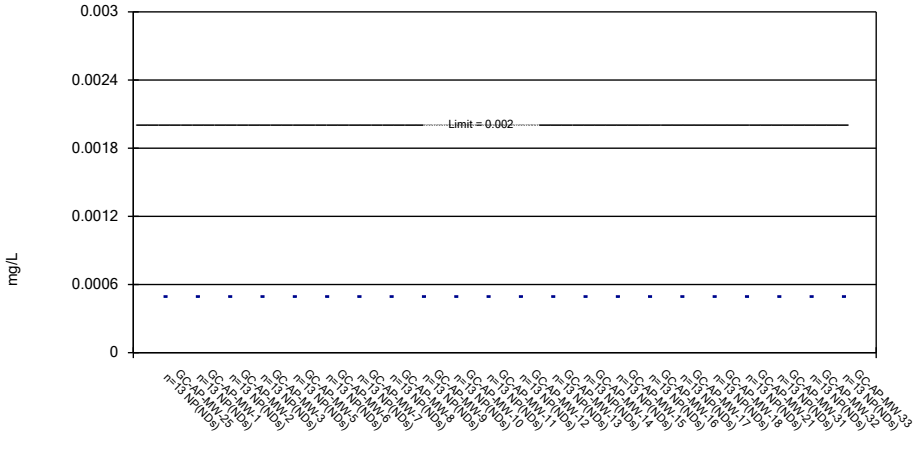
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/21/2020 2:00 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

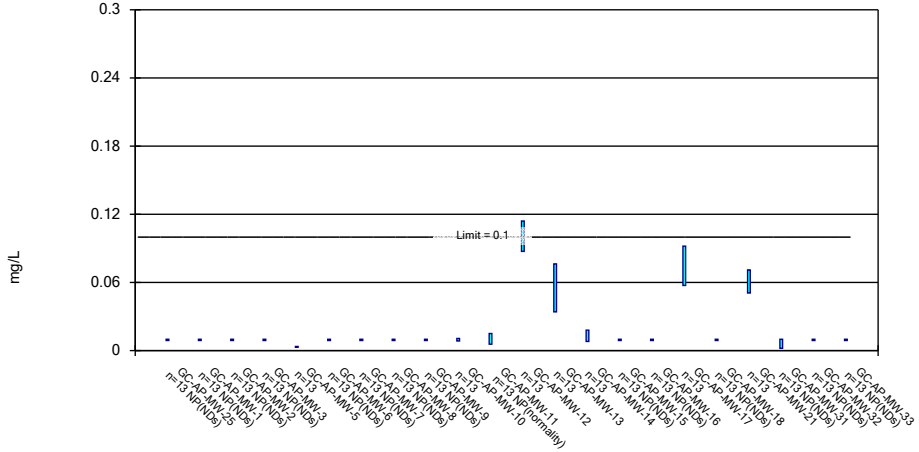
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/21/2020 2:01 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/21/2020 2:01 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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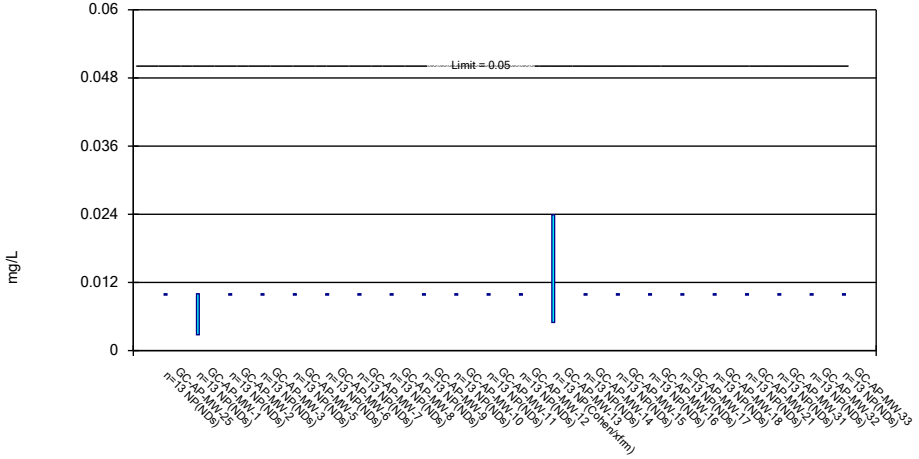
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/21/2020 2:01 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

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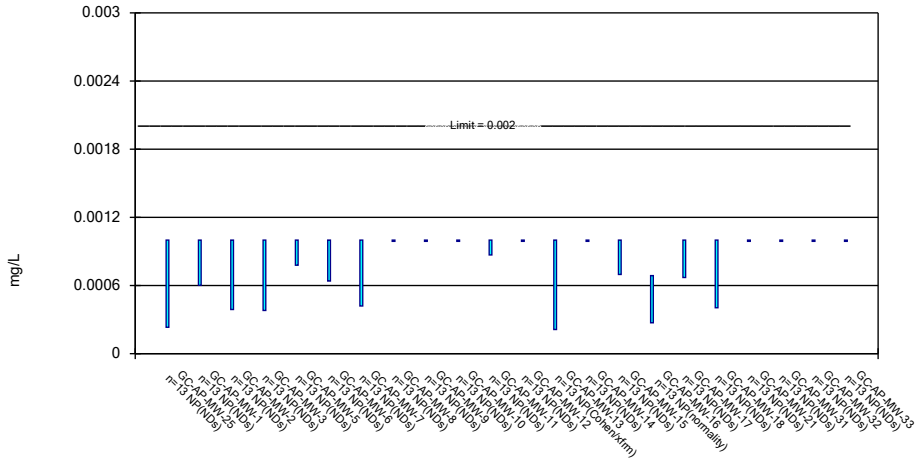
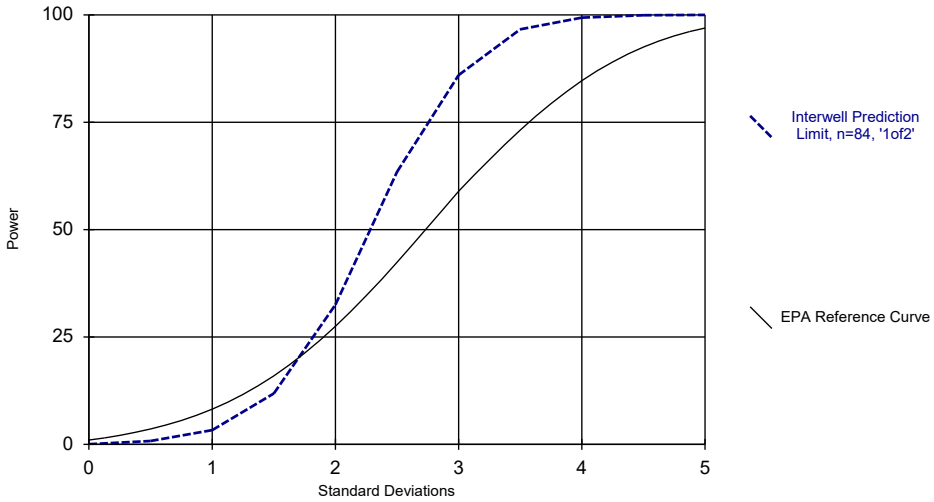
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/21/2020 2:01 PM View: Confidence Intervals - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Power Curve



Kappa = 2.182, based on 24 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/30/2020 11:06 AM View: Power Curves

Greene County Client: Southern Company Data: Greene County AP